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AND THE

REPORTS AND PAPERS PRESENTED IN THE SEVERAL SECTIONS.

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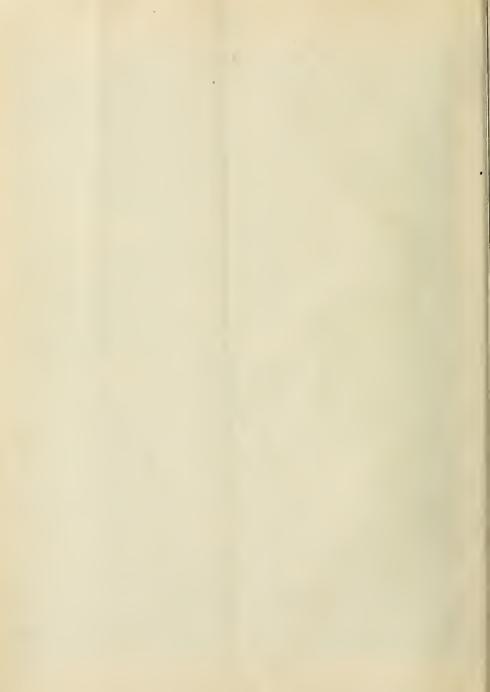
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# ORIGINAL ARTICLES.

# STATE AND LOCAL BOARD OF HEALTH! BY JOHN AVERY, M.D.,

OF GREENVILLE, MICHIGAN.

that of protecting the health and lives of its citizens. Its wealth is not so much in its soil, its timber, and health and lives of the citizens of the State. its minerals, as in the ability of its citizens to develop these sources of wealth.

sonal rights, that the general good of all may be conserved. In return for this surrender of individual property. This security of person and property im- or factory, or while residing in any tenement house, plies the right to labor in his own chosen calling, units franchises, or a lottery company in its schemes.

ance of the law may sometimes mitigate an offence institution or building." against personal rights, but it can never justify it. A if not all the States, these general principles have been embodied into the statute laws, and constitute the guarantee of the commonwealth to the citizen. that it will protect his life, his family, his property and his personal rights. And so we have laws to se-

cure the safety of persons, while traveling on railroads, steamboats and other public conveyances; to give them reasonable protection while stopping at hotels; while attending theatres, concerts, and other places of public gatherings: to protect the employés of large manufacturing establishments, and the oc-The State is charged with no higher duty than cupants of tenement houses; and to prevent the unnecessary spread of diseases which endanger the

The latter are known as the public health laws of the State; and under them, the man who either in-The theory of our form of government, and in fact tentionally or carelessly, exposes his neighbor or his of every form of enlightened government, is that each family, to disease which interrupts his business or citizen is required to yield up a portion of his peremployment, and subjects him to pecuniary loss, is equally a violator of the law, or should be made such, as he who inflicts loss from exposure to fire, liberty, the State undertakes to make him secure in from accident while travelling on railroads, or attendhis person, and in the undisturbed possession of his ing any place of public resort, or at work in any mill

In Michigan, and many other States, to give effect disturbed and unhindered by another, so long as his to these laws, to see that they are properly enforced calling is legal, and does not trespass upon the rights and observed, the State has created a State Board of of any other citizen. It secures to him and to his Health, and a local board of health in each municifamily the fruits of that labor, and protects him and pality in the State. The duties of the State Board. them in their enjoyment. And it gives him that sense under the law, are supervisory and advisory. "They of security which can only arise from a belief that his have the general supervision of the interests of the neighbors will respect his rights as he respects theirs, bealth and life of the citizens of the State." They or that the State will interfere to restrain and to protect. The poor man's health is his capital, and the State, and to endeavor to make intelligent and profitwages of each day's labor is the interest that capital able use of the collected records of deaths and sickpays to its owner. It is as much the duty of the ness among the people, to make sanitary investigations State to protect that capital, and make the owner se- and inquiries respecting the causes of diseases, and cure in its possession and enjoyment, principal and especially of epidemics; the causes of mortality, and interest, as it is to protect a railroad corporation in the effects of localities, employments, ingesta, habits and circumstances on the health of the people. They And so the laws of all just government hold a man shall, when required, or when they deem it best, adresponsible for an injury done another, that disables vise officers of the government, or other State Boards, him from labor, to the extent of the injury done, in regard to the location, drainage, water supply, disthrough carelessness, negligence or malice. Ignor-posal of exercta, heating and ventilation of any public

They are required to communicate with other State man must exercise the same care to protect another Boards of Health, and with local boards of health from injury or loss, as a prudent man would take to within the State; and to prepare blank forms of reprotect himself under like circumstances. In most turns, and such instructions as may be necessary, and forward them to the clerks of local boards of health throughout the State. They shall collect information concerning vital statistics, knowledge respecting diseases, and all useful information on the subject of hygiene, and through an annual report, or otherwise as the Board may direct, shall disseminate such in-

formation among the people.

<sup>&</sup>lt;sup>1</sup>Read in the Section of State Medicine at the Thirty Sixth Annual Meeting of the American Medical Association

and makes a reasonable appropriation of money each becoming more and more efficient. year to defray all necessary expenses of the Board. parts of the State, and given the results back to the afflicted.1 people of the State. They have inquired into the as to the remedy in such cases.

different counties in the State, called attention to many township and village officers, never knew, that be bettered. And their advice has uniformly been kindly and courteously received, and often acted upon to the improvement of such institutions. They have examined plans of public buildings about to be erected, and suggested alterations in methods of heating, ventilation, lighting, drainage, plumbing and safety in case of fire. And these suggestions have generally been thankfully accepted and acted upon by architects and builders. The result of these examinations of the plans of public buildings is, that not only the State has buildings better adapted to the purposes for which they are designed, but more atten-

In addition to these prescribed duties of the Board, they have endeavored to awaken a more general interest among the people in sanitary matters, by inal gurating and conducting a series of Sanitary Conventions in the principal cities and villages of the State. These conventions are held under the direction of the State Board, aided by a committee of the citizens in the locality where they are held. Persons interested in sanitary work in each place, and throughout the State, are invited to prepare and read papers upon, and participate in the discussion of such subjects as the particular locality is most interested in.

And the law further provides that the members of Local papers advertise these conventions, and pubthe Board shall receive no compensation for their lish the programmes; in this way the people become services, except traveling and other necessary ex- interested, and the attendance is generally good. penses while employed on the business of the Board. The papers read at these conventions, and asynopsis This is undoubtedly a wise provision, and I would of the discussions elicited, are printed in pamphlet most earnestly recommend its adoption in every State form and distributed gratuitously among the people. where the physicians are all rich, and the people all Local health officers in the vicinity quite generally poor. The State furnishes office room for the use of attend these conventions, and take home with them cient number of clerks to do the large amount of people are gradually being educated, health officers work which comes into the office of the Secretary, instructed, and local boards of health are each year

The State Board of Health is in direct and frequent During the twelve years since the organization of the communication with every city, village and township Board, they have prepared, printed and circulated in the State, through their local boards of health and among local boards of health, health officers and the health officers. They act as a sort of central signal people over 500,000 copies of monographs on differ- station to which signals of alarm and distress are sent ent subjects relating to public health. They have from all parts of the State, and from which warning collected records of sickness and deaths in different is sent to the endangered and advice and aid to the

The local boards of health are charged with the causes of local epidemics and warned and advised duty of administering and enforcing the laws relating communities. They have investigated special causes to the public health. That they have been stimuof sickness; such as poisonous cheese, diseased lated and stirred into activity, through the efforts meats, poisonous wall paper, adulterated foods of of the State Board, is not to be questioned. And various kinds and impure water. They have visited the benefits secured to the people of the State various places in the State where nuisances have been in this direction are perhaps greater and can be more reported to them by aggrieved citizens, and advised readily appreciated, than in any other. Before the organization of the State Board, these local boards, They have visited, at the request of the State Board existed scarcely more than in name. They rarely if of Correction and Charities, poor-houses and jails in ever met as a board, made no reports; and in fact, their defects and suggested how they could be im- by virtue of the offices they held, they were members proved. They have visited the prisons and other of a board of health. Now all this is changed; and State institutions, at the request of their officers and we have in place of these inanimate bodies, live, boards of control, to advise how their condition could active and working boards of health in most of our cities, villages and townships.

They are required by law "to make annual reports to the State Board;" and most of them through the local health physician, report weekly. They are required by law, "to appoint and to constantly have a health-officer, who should be a well-educated physician; and who shall act as the sanitary advisor, and executive officer of the Board." And in townships where it is not practicable to secure the services of a well-educated and suitable physician, the board may appoint the supervisor or some other person as such health officer. And they shall regulate and audit all fees and charges of persons employed by them in the execution of the health laws, and of their own regulations. And within thirty days after each annual meeting, the Board of Health shall meet for the transaction of business, and shall appoint or reappoint a health officer, and report his name to the State Board, together with his address and a statement whether he is a physician or not. Special meetings are held upon the call of the President or any two members of the Board. They shall make special reports to the State Board whenever required to do so. They shall give

estable and the study of physiology and hygiene with especial reference to the effect of alcoholic stimulants upon the human system, in all our common schools, provides that all text-books upon these subjects shall be submitted for approval to the joint action of the State Word of Health and the State Board of Education, in pursuance of the present all the present all the present all the submitted of text-books have been examined, and some approved and some not approved.

Whenever they shall think it necessary they may ary loss upon every community they smite. enter any building or vessel in their jurisdiction, for Nor does the law relieve from responsibility the the purpose of examining into and destroying, re-citizens of the State in regard to the means by which moving or preventing any nuisance, source of filth or disease is communicated. It requires every housecause of sickness. They may make such rules and holder, hotel-keeper, keeper of a boarding-house, and regulations in relation to the care and cleansing of tenants, who shall have knowledge of the presence privies and water-closets, as they may deem desirable of any communicable disease, in his family, hotel, for the preservation of the health of the inhabitants- boarding-house, or on his premises, to give prompt or they may declare any such privy or water-closet a notice of the fact, to the health officer, presinuisance, and order its abatement.

sign certain places for the exercise of any trade or give such notice, he shall forfeit for each offence, a employment offensive to the inhabitants or dangerous sum not exceeding one hundred dollars. And it is to the public health; and forbid the exercise thereof the duty of the supervisors and presidents of local in places not so assigned. Whenever a health officer boards to see that this provision of the law is comshall receive reliable notice, or shall otherwise have plied with. good reason to believe, that there is within his townfixing the salary of the health officer at a larger sum. to the people.

Local boards of health, shall provide hospitals, or some suitable place for the reception and treatment sources of danger, which threaten the public health. of persons sick with infectious disease, dangerous to In the Southern States, yellow fever; in our sea-board public health; and remove persons so infected when cities and States, Asiatic cholera. In the Eastern public safety demands; or they may consider the and older States, typhoid, and typhus fevers; while house in which the person is taken sick a hospital, as in the Northern and Western States, scarlet fever the condition of the patient and the public safety may and diphtheria are the particular scourges which seem to demand.

public notice of all regulations made by them, and such a by this summary, it will be seen, that the law connotice shall be deemed legal notice to all persons, fers upon local boards of health ample authority, to And the health officer, shall, on the receipt of infor- make and enforce any regulations necessary to promation of a case of small-pox, diphtheria, scarlet tect the citizens of their respective municipalities, fever or other communicable disease dangerous to against the spread of any communicable disease public health, keep the President of his own board dangerous in its character; to limit it to the first cases and Secretary of the State Board of Health, con-infected, and in the end, to stamp it out. It provides stantly informed in respect to such outbreak of dis-penalties for the violation of any of their regulations ease, and of all the facts, so far as they shall come to or ordinances; and also for the non-performance of his knowledge, respecting sources of danger from any duties. These local boards, then are the adminissuch diseased person or infected article being brought trators of all our public health laws; and to their ininto or taken out of his township, village or city, telligence, zeal and activity in enforcing these laws. The local board shall make such regulations respect-must the people of Michigan look for security against ing nuisances, sources of filth, and causes of sickness, the spread in their midst of all infectious diseases, within their respective municipalities as they shall and avoidable sources of disease, which endanger judge necessary for the public health and safety, their health and lives, and entail suffering and pecuni-

dent or clerk of the board of health of his town-When they shall judge it necessary, they shall as- ship, and if he shall neglect or refuse to immediately

Thus the law in Michigan is very specific in definship a case of small-pox, diphtheria, scarlet fever or mg the duties of both the State and local Boards of other communicable disease dangerous to the public Health. It confers upon the State Board no execuhealth, it shall be his duty to immediately investigate tive authority, but makes it simply an educative and the subject, and to order the prompt and thorough advisory Board in all matters relating to the public isolation of those sick or infected with such disease, health; and leaves the enforcement of all our public so long as there is danger of communicating it to health laws in the hands of the local boards of health. other persons; and to see that no person suffers for This has proved very satisfactory in that State, and the want of nurses or other necessaries because of is perhaps, under our form of government, the wisest isolation for the public good; to give public notice and safest distribution of authority that can be made by placard, and to promptly notify teachers or super- —leaving as it does, the enforcement of the public intendents of schools concerning families in which health laws, where it does the enforcement of all are contagious diseases; to supervise funerals of other laws for the protection of individuals and compersons dead from any communicable disease; to munities, in the hands of the local authorities. The disinfect clothing, rooms and premises, and all articles State Board represents a larger constituency, and its likely to be infected, before allowing their use by advice is received and acted upon more readily, than persons other than those in isolation. And this well-that of any of the local boards. As the whole is educated physician, health officer and sanitary ad- greater than any of its parts, so are the utterances of visor, shall receive for his services a sum of not less the State Board, representing as they do the whole than two dollars per diem. This is another wise pro State, more authoritative than those of any local vision, particularly commended to the attention of board. These local boards report to it; and it is other States. In justice to Michigan, however, I will the medium through which these reports are sumstate that this does not prevent local authorities from marized and the information afforded by them given

In each State there are particular diseases and afflict the people and demand the untiring vigilance of both State and local boards of health. These, unlike most other contagious diseases, delight to strike down the young of our land, and on that account, seem the most unnatural of all the fatal dangers that threaten us. In Michigan, the State Board has made an unrelenting warfare upon them, and the Member German Society Surgeons of Berlin: Professor of Anatomy St. Louis College Physicians and Surgeons. ties, the same protection against their spread as they do in an outbreak of small-pox. They know that small-pox is contagious, and they keep away from it. and insist that the infected shall be kept away from them. Through the efforts and educational influence of the State Board, they are beginning to realize that scarlet fever and diphtheria are equally contagious, and much more dangerous to life; and they demand the same protection from them that they do from

Three years ago, small-pox broke out in a lumber camp, but a few miles from where I reside. Nineteen persons had it, and one died. At the same time, and in an immediate neighborhood, scarlet fever made its appearance, with a total of twelve cases, and five deaths. The people of the country, for miles around, were excited and alarmed about the small-pox, but paid little or no attention to the scarlet fever. But a few weeks since, in the same neighborhood, diphtheria was introduced into a family of eight children, and while six of the children died, the disease was not allowed to spread beyond that family. Its presence was immediately reported to the local health officer and to the State Board of Health. The house was placarded, and quarantined, and every precaution taken to keep the disease within its original limits; and while mourning continues in that household, the community is saved from the further spread of that most fearful scourge.

Perhaps this incident in this particular community fairly represents the change in public sentiment throughout the State, in regard to the contagiousness of diphtheria and scarlet fever, and the means necessary to prevent their spread. This change is due to the better information of the people in regard to this class of diseases; and this information has been furnished the people through the agency and efforts of the State Board of Health. But the people are forgetful and neglectful, and need to be constantly reminded of the sources of danger which threaten their health and lives. "Line upon line and precept upon precept," is as necessary to promote public sanitation as it is to promote public and private morals.

Constant advice and warning are needed; and in no way can these be furnished the people so generally, so authoritatively, and effectively as through the medium of a well-organized and well-conducted State Board of Health. The obligation of the State to protect the health and lives of its citizens is plain. And in no way can it so well perform this duty, as the maintenance and effective working of a State

# ON THE RELATIONS BETWEEN CELLS AND MICRO-ORGANISMS.1

## BY AUGUSTUS C. BERNAYS,

A.M., M.D., HEIDELBERG; M.R.C.S., ENGLAND; F.R.M.S., LONDON.

The circular of our Secretary requesting contributions from the members, brought this body of workers into my consciousness, and mindful of the liberality of its constitution and of the earnestness of its purposes I decided to offer the following study at this meeting. My subject is not in direct connection with sanitary science, but inasmuch as it treats of vital questions which underlie our progress in medical science of the present times, I trust it will claim your attention.

The greatest step forward that was ever taken at one time in medical science was by Rudolph Virchow in the years 1855-1858, when he finished his classical work on "Cellular Pathology." It is not saying too much to claim that on the recognition of the cell theory and its application to pathology is built the entire structure of modern medicine, surgery and hygiene. Recognizing the immense benefit which has accrued to mankind from this doctrine, I propose now to inquire into the facts upon which it is based and to ask in which way further progress may be

1. "A cell is a living body consisting of two bladders, the one within the other of different chemical constitution." Virehow.

2. "Omnis cellula e cellula." Virchow.

3. "All living things correspond in the one point, that they originate from a cell." Virchow.

4. "The cell is the simplest form of life-manifestation." Virchow.

5. "Life is confined to a definite form, the cell." Virchow.

6. "Without a cell there is no life." Virchow.

The above six sentences are quoted from Virchow's "Gesammelte Abhandlungen zur Wissenschaftlichen Medicin," pag. 22, Frankfurt-on-Main, 1856.

The commanding influence of Virchow on modern pathological and biological research has so far controlled the opinions and thoughts of European scientists, of whom at least four-fifths are his own disciples. that the above theses have entirely entered into the bone and sinew of the students of natural sciences. Until very recently they have gone unchallenged, except by a very few, and the objections have as yet made little or no impression, as can be seen by a glance at the first pages of any text book of pathological anatomy or biology published during the past ten years.

In a paper purporting to treat of cells, it is proper that we should define this term. If we cannot define by incurring the small outlay of money necessary for the term, it loses its usefulness. The definitions given by Virchow above are insufficient, since we know innumerable instances of living solitary organisms that do not fulfil the postulates. For instance,

<sup>&</sup>lt;sup>1</sup>Prepared for the American Public Health Association, Dec., 1885.

a micrococcus is certainly a living being, but it is no toplasm or cell-substance by Fromman, Arnold, and bladder, nor has anybody ever seen a bladder-shaped especially by Walter Fleming, on whose works I have substance within it. I chose this instance at this largely drawn for the present essay, have shown that place, because I expect to prove that the group of there is a definite structure in protoplasm morpholog-micro-organisms, which we call schizomycetes, cannot ically speaking. This question, as to the nature of be classed under the head of what any author up to protoplasm, has also been studied by Heitzman, and this day has ever defined to be a cell. When Virchow he has arrived at the remarkable conclusion, that the says that: "Without a cell there is no life" he de- entire body of all animals is one connected mass of fines nothing; the statement is of about as much value protoplasm. Stricker has even denied that cells have as if he had said, Without protoplasm there is no life, definite boundaries. These last two hypotheses or or without albumen there is no life. Such statements discoveries, as they are claimed to be, by their auare purely hypothetical; they are illogical, because thors, directly contradict the experiences of 99they involve unknown quantities i. e. cell, protoplasm, 100ths of all observers, and I have seen nothing which albumen, and finally they are not postulated by any-would lend even the slightest countenance to such thing. I have just shown that Virchow's definition statements. Protoplasm has been analyzed chemicof a cell would exclude the micro-organisms, but no ally and has been found to consist of albuminoid subone will doubt that they are living bodies.

C. Gegenbaur, one of the most acute and logical proven of everything which is called protoplasm. thinkers among morphologists defines cells as follows: The protoplasm theory says: "Protoplasm is living homogeneous, glassy-transparent ground-substance, to be. of a semi-fluid (soft-waxy) consistency, held together by virtue of this property; with a nucleus, a nearly homogeneous, globular, almost solid body, containing a shiny nucleulus. This definition fits the schizomycetes just as little as did the two former. We must gators, or if we can advance a better hypothesis in therefore conclude that these organisms are not cells the place of the old ones. at all. But they are living beings. Therefore life is It cannot be my object now to enter upon a de-

there certainly is life independent of cells. garding the proper definition of the notion cell we other time. I can merely give some of the facts and must examine what the term protoplasm means. This results arrived at. question is not easily answered, since the word is During the past five years two particular subjects used promiscuously by different authors to mean very in microscopical science have chiefly engrossed the different things. Confusion reigns in regard to the thoughts of all progressive workers in this branch. meaning and use of this word to such a degree that The first one was the morphology and physiology of a definition is impossible. Some use the word to micro-organisms, which term I use to include schizodesignate all living and acting substance; the whole mycetes and micrococci only. The second was the substance of the cell including the nucleus, but ex- morphology and physiology of cell protoplasm and chiding the cell-membrane, if one be present. Others cell-nucleus, especially the phenomena of karyokimean by protoplasm only the substance of the cell nesis, or the division of the nucleus and the structure minus nucleus and membrane. Others again use the of cell-substance. During my studies on the subterm only in regard to indifferent or young cells, and jects, I was first of all impressed by the observation do not apply it to the substance of cells which have that the so-called bacteria or micro-organisms can in become specifically differentiated. It appears very no way be compared to what in histology of the higher difficult where to draw the line in these cases between animals are called cells. Following up this impression.

stances; it is said to be contractile, but that is not "Cells consist of a small lump of soft living sub- material, all life and all organic forms are limited to stance, which encloses a more compact body, the it and are its products." Does this proposition denucleus." This definition would also exclude the serve the name of a theory? Considering that we micro-organisms of the group of the schizomycetes, cannot define the word protoplasm better than the The text books of Frey, Orth, Toldt, W. Krause and above sentences have shown, is not this theory virtuothers have accepted the definition of Max Schultze, ally a petitio principii, as much, and even more so, who defines the cell-substance or protoplasm as a than we were able to show the cell-theory of Virchow

not confined to the definite form called a cell, neither scription of all the methods employed by me to is the cell the simplest form of life-manifestation, and establish the following facts, upon which I will base the conclusions of this essay. I reserve these details Before entering more deeply into the question re- for an extensive paper, which I shall publish at an-

protoplasm and differentiated or higher cell sub-sion by micro-chemical experiments, I soon became stances. But few call the cell substance of muscle convinced that the reactions of the cell-substance or cells, or of red-blood-corpuscles protoplasm, whereas protoplasm in no way corresponded to the reactions most histologists speak of the protoplasm of ganglion of bacteria or schizomycetes under the same treator cartilage or connective tissue-cells. Should any ment. This fact, however, is well established by one attempt to answer the problem, whether any many investigators. I found, also, that the chemical given cell substance is protoplasm or when it is no reaction of the micro-organisms closely corresponds longer protoplasm, he will find himself unable to to the reaction of the nuclei contained in the cellrespond, simply because no one knows exactly substance; in fact, that it must be very similar to the what protoplasm is. The recent researches on pro-substance we call nuclein. During the summer of

cultivating micro-organisms of different kinds. In the most important part of the cell. As long as the many of my open air cultivations with hay infusions idea that a nucleus which is not surrounded by procan only be called free living nuclei. This observa- entity controls the mind, it will be very hard to grasp tion has been made by a few investigators before me, the weight and bearing of the above observations. but has always been denied or disputed by others. Histologists who are accustomed to work almost I am ready, however, during any summer, to demonstrate and cultivate these organisms to the absolute think of a living nucleus without protoplasm, even others had just left the nucleus.

problem as to what would become of a living cell if the essential part so long as it lives. left to die in a sterilized nutritive fluid. I may be No one will dare to deny that the great progress

1884 I spent many days and nights examining and by the nucleus, sufficiently proves that the nucleus is I made the discovery, that there are organisms which toplasm or cell-substance does not exist as a living

satisfaction and conviction of even the most skeptical as a possibility. After a time, when the fact that person. In these infusions I not only found free there are numerous organisms which are homologous living nuclei, but I saw organisms in almost all stages to free nuclei shall have been recognized and corbetween a free living naked nucleus to nuclei which roborated, the supposition that the nucleus is, genetiwere surrounded by a complete shell of protoplasm cally speaking, the older and most essential part of a or cell-substance. I also saw nuclei which had a cell will seem as evident as it has seemed heretofore single protoplasmatic cilium, which they used as an that the cell-substance was the important part of organ of locomotion. Others of these nuclei had the cell. This latter opinion is based upon the three, still others had as many as fifty cilia arranged hypothesis that the nucleus is only "condensed or around their circumference. I could plainly see how differentiated protoplasm." It supposes that protoa small speck of protoplasm attached to one side of plasm is the basis of all life. But we know of many these free nuclei would develop into a hair or cilium. organisms, for instance, schizomyeetes or micrococci, during a few hours that were occupied in the observation of a single organism. I could also plainly discern that within the free living nuclei there were also that the nuclei of cells, as well as the free living smaller dark bodies, some of spherical, others of nuclei, are not protoplasm. The protoplasm theory bacillar shape, which were in constant lively motion. must therefore be given up; it is imperfect and is not I am sure also that I often saw them arrange them-called for by the facts. I should not wonder if in a selves into rather regular figures previous to division. few years it will appear strange how such an error as I never succeeded in observing an entire process of the slighting of the nucleus in favor of the cell-subdivision either in a free living nucleus or in an iso-stance, making the latter the more important, and lated living cell. The cause of this was that I could giving the nucleus only a secondary position, could not keep the organisms alive long enough by any have occurred. The greatest living investigators, means at my disposal. I can, however, corroborate men who usually proceed in a most logical and scienthe observations of Walter Fleming regarding the tific way, have fallen into this prejudice. We know process of nuclear division on hardened specimens of no example of a cell in the animal kingdom that to the very utmost detail. Another observation that neither has nor ever had a nucleus. The so-called I can state with certainty is that the movable bodies cell-substance, however, is not really so constant a contained within the nucleus sometimes leave the factor; we find it in the most varying conditions. We body of the nucleus and swim away from it under do not know that any cell without a nucleus is capathe cover glass in the water or solution of nutritive ble of division or multiplication, but I have seen the salts. I also saw bodies which evidently were micro- division of the living naked nucleus. These facts all organisms, either bacteria or micrococci, enter into tend to demonstrate the primary and essential imthese free nuclei, probably through the same pores or portance of the nucleus in contradistinction to the holes in the nuclear membrane through which the cell-substance. The function or use of the latter is unknown. Possibly it serves the purposes of nutri-During the summer of 1885 I spent many hours in tion in the beginning and is afterwards used for a experiments, conducted with a view to solve the great variety of purposes, the nucleus always being

permitted to state that I became almost convinced made in the natural sciences in modern times is that the death of cells under these circumstances is chiefly due to the recognition of the great principle attended by the development of micro-organisms, of evolution. This principle itself was established My observations on this point, however, were not most thoroughly by the two disciplines called comabsolutely satisfactory. It is almost impossible to parative anatomy and embryology. It is very eviexclude all sources of error, and I do not wish to be dent that the main progress we have made towards a understood as having stated this to be a certain fact, scientific understanding of organic life, has been Most of these experiments were made with a Zeiss reached not by study only of the adult or perfect 1-25 inch lens Before leaving this part of our dis- stages of our objects, but by the observations made course I must say that all later observers seem to on the different stages of the growing organism during agree on the fact that the nucleus is the essential part lits development. Gegenbaur says: "Thus ontogeny of a cell, and that the reproductive function at least and comparative anatomy appear as the scientific emanates from it. The other functions of the nucleus, basis of human anatomy." The latter discipline has if there be any, are unknown. The fact, however, been placed upon a more scientific basis, since the that reproduction starts and is principally carried on introduction of the onto and phylo-genetic methods

organism in the pedigree of life.

error here, which undoubtedly will cause the toppling over of his entire structure, grand and wonderful as well enough established to be convincing, that a cell he has built it. Mr. Haeckel is the author of the or its nucleus, when left to die in a sterilized nutrient biogenetic fundamental law. This law, generally fluid, will set free micro-organisms, would seem to speaking, says: Embryology (ontogenesis) is a indicate the hypothesis that the nucleus is a concondensed and abbreviated repetition of phylogenesis, or the development of the race. We may accept however, I desire to have understood is by no means or amend it in future. Mr. Haeckel started his tree preliminary hypothesis, based as it is on observations of life upon the foundation of protoplasm, from this which I consider entirely too doubtful for a scienhe jumped to what he calls monera. These organisms tific result. are cytodes without a nucleus, merely small pieces of cell-substance or protoplasm. Next he allows a nu-setting up the following theses as the result of my cleus to be differentiated out of this protoplasm, observations and reflections: These, then, are his cells. In order to decide the question where the cells belong in the scale, Mr. Haeckel should have used the methods above mentioned; and under the guidance of his biogenetic law he might all life is untrue. have undoubtedly reached the true conclusion.

In order to decide what the cell is, let us see whereto the ontogenetic method will lead us. No sane person will claim that a cell must needs be the lowest living entity. If, therefore, we can observe the ontogenesis of higher organisms, why may we not try to study the development of a cell? I have faithfully tried this method with all the technical appurtenances, aids and ingenuity at my disposal. I have only partially suc- differentiation and growth from a nucleus. ceeded, but what I have seen is very encouraging. I repeatedly saw a naked living nucleus, while under ontogeny of cells. observation, develop or attract unto its surface (out of the water or nutritive fluid in which the nucleus was examined) small particles of substance which seem to me to correspond exactly in optical appear- of organic beings are: ances to what is usually called cell-substance or protoplasm. The comparative method, when applied to the examination of free nuclei and cells, yielded an almost perfect result. As I stated above, I saw all the stages of living organisms which naturally range between a naked nucleus and one entirely covered by cell-substance. This observation is readily made and can be corroborated by any carehigh powers.

Placing the results thus obtained together with the micro organism, which is called bacillus tuberculosis. beautiful work done by Fleming, Rabl, Arnold, It has been necessary to accept the hypothesis that Strassburger, Kupfer and others on karyokinesis, the the parent only transmits a peculiar diathesis to the conclusion which seems absolutely unavoidable is that the nucleus existed before the so-called cell and before protoplasm. Protoplasm or cell-substance is a product of differentiation of the nucleus.

of investigation. These methods, I deem, are the refraction of light and their chemical reactions also corones which should be employed in all instances where respond closely to those of these lowest of all known a question arises concerning the position of any given organisms. As above stated, these bodies sometimes leave the nuclei through pores in the nuclear mem-Mr. Ernst Haeckel himself has fallen into a grave brane, and others seem to enter into the same places. This, together with the observation, which is not yet glomeration of micrococci or a syncoccium. This, this thesis for the present, reserving the right to modify a conclusion which deserves any more notice than a

Before ending my essay I may take the liberty of

- I. The hypothesis that protoplasm is the basis of
- II. The hypothesis that cells are the result of the This now brings me to the main point of this essay. differentiation of protoplasm is untenable.
  - III. The hypothesis that the so-called cytodes, or cells without nuclei, are phylogenetically the ancestors of cells (with nuclei) is false.
  - IV. The nucleus is phylogenetically the progenitor of the cell.
  - V. A cell is an organism which is developed by
  - VI. The process of karyokinesis is a part of the

The lowest known stages of the phylogenetic tree

I. Micro-organisms.

II. Free nuclei = synococcium?

III. Cells.

In order to show the usefulness of my hypothesis, let us look for a moment at the origin of hereditary disease. It is a fact that a parent will transfer to its offspring many of its peculiarities. One of these is sickness. We know that tuberculosis, commonly ful microscopist who is accustomed to work with called consumption, is often inherited. We know that this disease is caused by the development of a

offspring, which makes it more susceptible to the micro-organism. But, as all practitioners of medicine know, this hypothesis is not tenable in all cases. There are cases known where children were separated I extended my investigations one step farther after from their parents soon after birth say seven orphans I had determined the primary importance of the were adopted by seven different families, and placed nucleus. I attempted to analyze the nucleus itself in the most varying external relations, still not one of by the methods of development and comparison, them lived to be 28 years of age. Is it reasonable As above stated, I plainly saw that within the nucleus to believe that a tubercle bacillus found its way into there existed active moving bodies of definite forms, each of their lungs and there set up its work of de-Their movements remind the observer of the move-struction? It seems to me that an explanation in ments of the smallest micrococci and bacteria. The every way more plausible can be derived from the

spermatozoon of the father bore within them the ception, but as a precaution against disease. Thomas, taint, perhaps the veritable bacillus itself, or the however, opposes the sweeping assertion of Enmet, homologon of a spore as one of the component parts that vaginal injections received from a bidet are useof these elements.

## CONCERNING VAGINAL INJECTIONS.1

BY W. THORNTON PARKER, M.D. (MUNICH),

OF NEWPORT, R. I.

Almost every work upon gynecology acknowledges the importance of vaginal injections in the treatment of disease of the pelvic viscera, and at present it seems to be the general opinion that these injections must be received by the patient while lying on her back with elevated hips, if good results are to be

The uselessness of the small stream attainable from almost every syringe is well known, and while Scanzoni has taught for so many years the necessity for copious injections, he has never supplied the apparatus. If we consult our works on gynecology, we will be surprised to discover the numerous syringes and appliances offered for vaginal injections.

So miserable, useless and even dangerous are the syringes supplied that Dr. Emmet has concluded that the only syringe worth using is the "Fountain," and "that no patient can use vaginal injections efficiently herself, but must have them administered by another."2 For this vaginal injection the services of a nurse or servant must be employed, or else elaborate preparation of bed and bed clothing, and the many details connected with the operation must be carefully carried out. It is very interesting to consider the minute details and the complicated methods recommended by such writers as Thomas and Emmet, who are such giants in the practical operations which have revolutionized gynecological surgery. A collection of the descriptions for preparing patient and bed for recumbent vaginal injections is really astonishing, and in many cases one is forced to either devote a good hour to unravel the puzzle, or else to conclude that a patient once subjected to such fussy preparation might be willing to receive one such injection, but hardly a second. Indeed, to subject a nervous patient to such elaborate preparations is a miserable imposition, and is undoubtedly very often sufficient to discourage further interest in the progress of the treatment of the case. Such discouragement has indeed often put a positive stop to all further attempt at a case, and the woman of ordinary modesty feels outraged by the exposure necessary for the injection, which disturbs her much more than mounting the elaborate brass-mounted table so common in the offices of our amateur gynecologists.

The use of the vaginal syringe should be accomplished with as little annoyance to the patient as the simple operation of washing her hands or her face, and when this can be demonstrated then, and not till then, will the bidet find its way for daily use in

supposition that the egg cell of the mother or the countless homes, not as a preventative against conless, and is willing to allow that some good can be derived from such injections, but in a limited, very limited, degree.

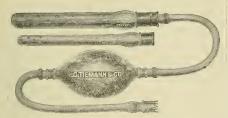
When we read on further in Dr. Thomas's work, and find that he recommends the common Davidson syringe, one cannot be surprised that his doubts are freely expressed as to the efficacy of vaginal injection. He has freely quoted Scanzoni in urging copious vaginal injections, and yet he must know that at present the average so-called female syringe is utterly unable to supply a sufficiently copious stream to be of any use whatever. The works of American gynecologists are all in error on this important topic. but if we consult the writings of Barnes and Edis we shall find that vaginal injections from the bidet, or even the common basin, are highly recommended and are frequently successful, because the syringes sold in England are mostly the admirable ones of Higginson, and not the useless apparatus found for sale in our drug shops. Few writers on gynecology have presented such a useful and practical book as that of Edis, on "Diseases of Women," and some of his remarks are so excellent that I take the liberty to quote them: "Syringes made of India-rubber are the most suitable; pewter or glass should never be used. . . Higginson's syringe is one of the most convenient form. . . The vaginal tube should be adjusted so as to lessen the force with which the fluid is injected, and prevent the possibility of the nozzle being inserted into the cervix. Instances of severe uterine colic, intense agony, peritonitis, and even death, from the employment of vaginal injections, have been recorded.1 In some cases this may possibly be explained by the tube being inserted into the patulous cervex of a retroverted uterus. We cannot therefore be too careful in explaining to the patient how to use the syringe properly." Barnes asserts that "injections fail because they do not touch the main seat of the disorder, which in the majority of cases is in the uterus itself; but although they fail to cure, they may be useful as far as they go." He, however, recommends vaginal injections with the Higginson syringe, and considers the bidet the useful vessel that it is.

In 1879 I devised a vaginal syringe, made by Tiemann & Co., of New York,2 which has since been greatly improved. The bulbs for this syringe were manufactured at first in Paris, making the syringe very expensive, but lately Messrs. Tiemann & Co. have manufactured these bulbs in New York, and it is now possible to obtain the best vaginal and rectal syringe which I know of, not excepting the excellent English Higginson, from them. This syringe is made entirely of rubber, and the vaginal and rectal tubes are perfeetly flexible. There is no terminal orifice, but the sides are perforated with velvet eyes for a distance of nearly two inches from the end. These rubber

<sup>&</sup>lt;sup>1</sup>Read before the Newport Medical Society on October 7, 1885, <sup>2</sup>Quoted by Thomas, <sup>11</sup> Diseases of Women, <sup>12</sup> p. 74.

<sup>&</sup>lt;sup>1</sup>A death from the use of a Davidson's syringe is reported in the Gynecological Journal, 1872, p. 346, et seq.
<sup>2</sup>New York Med. Record, July 5, 1870.

nor produce the injury so often caused by the hard The bulb and tube are large and metallic tubes.



afford a copious supply of water. For use in the recumbent position the vaginal douche pan invented by Dr. Baker, or the Reynolds siphon bed-pan manufactured by Otis Clapp & Son, are to be recommended; but the necessity for the use of the bed-pans referred to is only when the patient is too feeble to

administer the injections herself.

With the bidet and the syringe which I have already described, a safe and useful vaginal injection can be obtained.1 The patient can make herself very comfortable on the bidet, and the syringe is so constructed that very little effort is required to empty the bulb, and pour out into the vagina a copious supply of water, estimated as being many times greater than that obtained from any other syringe at present in existence. The dangers of uterine colic and other accidents while using this syringe and the bidet are reduced to the minimum. A thorough washing of the vaginal walls is easily accomplished, and a large bidet allows a much greater supply of water, and is consequently a cleaner apparatus than can be possible from any bed-pan or fountain syringe. It is worth something for the patient to be able to arrange for and to use the bidet without trouble and innumerable preparations. It should be used just before stepping into bed. I direct my patients to fill the bidet as full as possible with water from 100° to 110° F. in temperature, when ready for use. The patient should have the legs covered with warm stockings, the feet encased in warm slippers, and if weak a warm wrapper can be thrown over the shoulders. The injection should be continued for at least ten minutes. The ingredients to be added to the hot water should be carefully mixed with the water before using. After the injection the parts should be well dried with a soft towel, a suppository introduced and a napkin applied immediately upon entering the bed. For the treatment of ordinary leucorrheea 1 direct that the hollow vaginal suppositories of Dr. Chas. L. Mitchell, of Philadelphia, and a formula devised by myself, consisting of sulpho-carbolate of zinc, grs. x, and

syringe points do not lacerate the mucous membrane sulphate of morphia gr. ss., be used, or else the suppositories of boro-glyceride, made for me by Messrs. Theodore Metcalf & Co., of Boston. In the New York Medical Record, Sept. 24, 1882; the American Journ. of Obstetrics, Feb., 1884; the Philadelphia Med. Times, Sept. 20, 1884; and the Virginia Medical Monthly, August, 1885, I have called attention to the valuable properties of boro-glyceride, especially in gynecological practice. For those of my readers who are not acquainted with boro-glyceride I would quote the following from the British Medical Journal: "Boro-glyceride is a body of definite chemical composition (C.H.BO), which forms a definite hydrate with a large quantity of boiling water, and is not, we are informed, decomposed when diluted in the proportion useful in surgery-one part to twenty or thirty parts of water. Such a solution is inodorous, has a slight saltish taste, and is quite unirritating to a wounded surface. Under its use wounds of all kinds do extremely well, and heal fully as rapidly as under carbolic acid dressings, over which boroglyceride has the advantage that it does not irritate the wound or the surrounding skin, and that it is, so far as is known, entirely innocuous when applied to a wounded surface." Messrs. Theodore Metcalf & Co., of Boston, have at my suggestion made vaginal and rectal suppositories of boro-glyceride in combination with gelatin and pencils of the same for intranterine and other uses. These contain twenty-five per cent. of boro-glyceride. The suppositories are of three sizes, Nos. 1, 2 and 3. No. 1, the smallest, is a useful suppository in various rectal disorders, particularly in hæmorrhoids and pruritus ani. They are also useful in the treatment of thread worms. No. 2 is of medium size, for either vagina or rectum, and No. 3 is indicated where a larger amount of boroglyceride is required in cases of chronic leucorrhea, vaginitis, or of uterine diseases in general. The largest suppositories should not be used more than three nights in succession, and experience has taught me that the best results are obtained by using them every other night. Boro-glyceride is an excellent application for a lacerated cervix, spread thickly on the diseased surface. It can also be spread on absorbent cotton, and introduced and applied in that The cleanliness and gentleness of this remedy, and the steady improvement resulting from the use of boro-glyceride, will be very satisfactory to both patient and physician.

Dr. Storer considers that four general indications exist for vaginal injections: 1. As a lavement for cleansing purposes. 2. For the purpose of producing a deep-seated effect for relieving chronic congestions. 3. Where an exosmotic effect is desired, as in the use of saline and other solutions. 4. Where a local effect is desired, corresponding with gargling for the throat, etc. In the latter class of cases the recumbent position might be more advisable. He often prescribed, and that physicians are reckless in directing ingredients for vaginal injections that are of the most unsuitable kind, and often productive of lasting injury. Sometimes even dangerous ingredients are used, creating instead of alleviating dis-

The hidet is a triangular sool about sixteen inches high, containing a porcelam hasin which earn be easily lifted out and cleaned. The stool is peddle-shaped, the broad end for the support of the buttocks, and narrow anteriorly. It can be obtained at many of the house furnishing goods stores, lendentially it may be well to mention the fact that the bidet is useful for the treatment of rectal diseases of both sexes. For bathing hemorrhoods or prolapsed and it is certainly preferable to the pans so generally recommended. A modest prejudice exists against the bidet, many ladies dishlain to need one, since it is so well known that French women use them to prevent conception.

ease. Such injections are sometimes followed by a the surgery necessary for the uterus and the spemore serious disease than they were at first intended cial treatment needed in all uterine cases. In vagito relieve. The same discretion should be used in nal injections properly administered we have an inprescribing vaginal injections that one employs in valuable aid in the treatment of many of the diseases treating the mucous membrane of the eye or fauces. of women, and a guard against the attacks of diseases Every gynecologist must have witnessed the deplor- to which woman is so liable. able effects resulting in almost ruined vaginal walls from too severe injections of such substances as alum, advise against the prolonged use of vaginal injectannic acid, etc. With the most ordinary skill on tions during pregnancy, and also to caution patients the part of the medical attendant, the syringe which against using injections of any kind during the menwe recommend ought to be a safe one. It is well, strual period. To many these warnings may seem however, to remember that serious injury has result-superfluous, but the physician of any experience must ed from neglect to empty the air from the tube before have seen much harm resulting from ignorance of inserting into the vagina. Care should be taken that these very simple laws, in medical attendants. no air enter the bulb or tube while filling the syringe. By using a bidet this accident is more readily avoided if plenty of water be used, but with an ordinary hand-basin it is of frequent occurrence.

Many syringes are so constructed that a pint or more of water answers for the entire "sitting," being used over and over again, becoming filthier and filthier each moment. Such machines have little to recommend them. A copious water supply and a tice gynecology to a considerable extent. Intra- the anatomico-surgical indication would point to. uterine injections are seldom justifiable, and then. The preservation of the integrity of the limb, both can be used, but generally speaking the larger vagi- my case was not a success. nal tube is suitable where injections are found to be

In conclusion, the physician should be careful to

Newport, October 7, 1885.

# SIMPLICITY AND ADAPTABILITY IN THE TREAT-MENT OF FRACTURES

BY GEO. N. MONETTE, M.D., OF NEW ORLEANS, LA.

In a former issue of The Journal Dr. John B. copious stream are the most desirable features in a Roberts, of Philadelphia, made an especial mention good vaginal injection, and a syringe which cannot and advocacy of simplicity, as also strict anatomical accomplish this is simply worthless. Cheap syringes appreciation of surgical appliances, in the treatment are commonly offered for sale because they are cheap. of fractures. Text-books, too often, bias the prac-For a good vaginal syringe a fair price must be paid. titioner in his isolated field of labor, and he is often In drawing attention to the dangers from careless denied treatment of cases, owing to his not being vaginal injections, it may be well incidentally to note supplied with orthodox paraphernalia requisite for the recklessness with which some medical men rec- certain cases. Let each one, so called upon for surommend intra-uterine injections. This is the more gical advice, only exercise his inherent ingenuity, and inexcusable, since so many general practitioners pract then make such an appliance as common sense and

only when they can be employed by a safe instru- as appertaining to bony and muscular and integument acting more or less on the principle of the mentary tissues, must of necessity engage the attendouble canula. For the vaginal injection with the tion of the attendant. Having a compound fracture, syringe we recommend, the best possible ingredients the appliance must be adapted with especial reference are boro-glyceride in solution, borax, and even com- to immobility for the bone, as a comfortable exit at mon salt in suitable proportions. Much of the ben- the seat of the laceration for all suppurative disefit derived by women from sea-bathing, aside from charges, guarding cautiously against too great comthe general constitutional tonic effect of sea-side air, pression of the sympathetically inflamed tissue. This and salt-water baths, is the fact that the sea water must not be actuated by any routine, as laid down in does actually enter the vagina during the usual the books. I have been able to treat and control exercise of bathing, and exerts thereby a cleans- successfully all of my cases of fracture upon the ing, healing effect upon the vaginal walls. While the impulsive plan, not by fixed laws relative to authoripossibility of such entrance of salt water has been ties, but as the case and common sense would indidenied by some, on the ground that the walls are too cate, save that, with Liston's long lateral splint for closely approximated to admit any water, the fact fracture of femur. The use of Liston's straight lateral remains the same that water actually does enter, and splint for fractures of the femur, is confined by the that inquiries made have proved this beyond ques-tion, not only in the case of multipare, but of others, one case of fracture of the femur which resulted with and even virgins. The closure of the vaginal walls is overlapping extremities; not through any fault of the not like that of the closure of sphincter ani. Besides splint, nor inaptitude on my part, but through a these preparations there are others which can be used meddlesome daughter, who slackened the perineal in greater or less strength, according to indications. strap after my morning (daily) visit, when I had at The large tube will be found often too large for un- each visit drawn the strap taut. Her interference married women, and for such cases the rectal tube caused some irregularity; I had no recourse, hence

In compound comminuted fractures the utmost necessary. The use of the syringe cannot alone cure care in the application of dressings must be exerdiseased vaginal walls, and the atomizer and other cised; and as to routine bandaging, the same must appliances must play their part, not to speak of be rigidly dispensed with. I have treated such cases without a bandage, and have also departed from the prescribed course for such cases. Each case develops features of its own, which necessitates a certain method of utilizing appliances, and the identical repetition as to seat of fracture in another case would reveal diverse phenomena. Hence it becomes the imperative duty of the surgeon to devise his apingenuity of adaptation, and with especial appreciation of the anatomy of the part involved in its mechanico-mobility, normally, and after union of

As regards fracture of the femur in children, suppose we have a case in an infant six or eighteen months old. What can be more cruel than a straight splint? My plan for treating these cases is to put them in a flexed position, similar to the sitting posture, and with extension of the anterior and posterior splints about the waist, and held by a band, and the lower extremities of the splints carried to or beyond the toes. By this method there is the most rigid immobility of the limb, and with comfort to all parts enveloped by the bandages. My first application of this form of splint was in the spring of 1868, and whenever a suitable case presents I utilize the identical form of splints, anterior and posterior, in conformity to a sitting posture.

Each day develops some ingenious contrivance for every form of fracture, but it is incumbent upon the surgeon to dispense with inventions to a great extent and utilize his ingenuity conformably with indications of his particular case; and there will be neither

fault nor deformity.

Fractures of the clavicle offer some discouraging results, as the movements of the thorax (as in lying down) are prone to militate against permanent adjustment of any sort of dressing. It seems to me that a little more simplicity is requisite; for instance, simply binding the arm to the thorax by a bandage. In fractures of the clavicle in infants and very young children, the former particularly, I have pinned the sleeve of the arm of the fractured side to the dress anteriorly, or about the median line, across the chest. Such treatment has resulted successfully, and with no more prominence of a callus than from the routine Fox apparatus, or that of any other specialist in surgical appliances. This confinement is readily tolerated by children, and a little pain causes them to bear it patiently. The nature of the fracture in children tends to confirm my method. With diminished ossific development, the fracture is not distinct; hence the reapposition of the splintered fragments is readily accomplished; solidification takes place promptly, and immobility is attained sooner than in similar fractures in adults.

I need not mention other fractures, as simplicity can be more readily appreciated in those enumerated than in those not mentioned, as the form of treatment is absolutely indicated. Recovery and restitution are much more speedy and satisfactory, and at the same time careful inspection an be made by the attendant at opportune periods, without fear of compromising the progress of bony union.

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# MEDICAL PROGRESS.

DISINFECTANTS.—The Committee on Disinfectants of the American Public Health Association conclude their report as follows: The experimental evidence recorded in these reports seems to justify the following conclusions: The most useful agents for the destruction of spore-containing infectious materials are: 1. Fire. Complete destruction by burning. 2. Steam under pressure. 110° C. (230° Fahr.) for ten minutes. 3. Boiling in water for one hour. 4. Chloride of lime.2 A 4 per cent. solution. 5. Mercuric chloride. A solution of 1:500.

For the destruction of infectious material which owes its infecting power to the presence of microorganisms not containing spores, the Committee recommend: 1. Fire. Complete destruction by burning. 2. Boiling in water half an hour. 3. Dry heat. 110° C. (230° Fahr.) for two hours. 4. Chloride of lime.3 1 to 4 per cent. solution. 5. Solution of chlorinated soda.4 5 to 20 per cent. solution. 6. Mercuric chloride. A solution of 1:1000 to 1:4000. 7. Sulphur dioxide. Exposure for twelve hours to an atmosphere containing at least 4 volumes per cent. of this gas, preferably in presence of moisture.<sup>5</sup> 8. Carbolic acid. 2 to 5 per cent solution. 9. Sulphate of copper. 2 to 5 per cent. solution. 10. Chloride of zinc. 4 to 10 per cent. solution.

The Committee would make the following recommendations with reference to the practical application of these agents for disinfecting purposes:

For Excreta.—(a) In the sick-room: For sporecontaining material 1. Chloride of lime in solution, 4 per cent. 2. Mercuric chloride in solution, 1: to 500.8 In the absence of spores; 3. Carbolic acid in solution, 5 per cent. 4. Sulphate of copper in solution, 5 per cent. 5. Chloride of zinc in solution, 10 per cent. (b) In privy vaults: Mercuric chloride in solution, 1:500. (c) For the disinfection and deodorization of the surface of masses of organic material in privy vaults, etc.: Chloride of lime in powder.

For Clothing, Bedding, etc.—(a) Soiled underclothing, bed linen, etc.: 1. Destruction by fire, if of little value. 2 Boiling for at least half an hour. 3. Immersion in a solution of mercuric chloride of the strength of 1:2000 for four hours." 4. Immersion in a 2 per cent. solution of carbolic acid for four hours. (b) Outer garments of wool or silk, and similar articles, which would be injured by immersion in

PThis temperature does not destroy the spores of B, subtilis in the time mentioned, but is effective for the destruction of the spores of the anthrax bacillus and of all known pathogenic organisms.

Should contain at least 15 per cent, of available chlorine.

Should contain at least 15 per cent, of available chlorine.

This will require the condustation of between three and four pounds of sulphur for every 1,000 cubic feet of air space,

The addition of an equal quantity of potassium permanganate as a deotorant, and to give color to the solution, is to be recommended. Standard Stan

A concentrated solution containing four ounces of mercuric chloride and one pound of cert is still hate to the gallon of water, is recommended as Standard Solution on A. 3. Eight ounces of this solution for the disinfection of evereta, containing almost 1:500 mer. Botton for the disinfection of evereta, containing almost 1:500 mer. Borthis pages 10. Use and 1:125 of cupric sulphate. For this pages 10. Use and 1:125 of cupric sulphate. Plants of with an vell ed sand, in the proportion of one part to nine. The blue obttion consuming sulphate to two ounces of the containing sulphate.

boiling water or in a disinfecting solution: 1. Ex- pressure) into the interior of the bale. The appaposure to dry heat at a temperature of 110° C. ratus used must insure the penetration of the steam (230° F.) for two hours. 2. Fumigation with sulto every portion of the bale.

phurous acid gas for at least twelve hours, the clothumes per cent. (c) Mattresses and blankets soiled mercuric chloride, 1:100 (the blue solution heretofire. 2. Exposure to superheated steam—twenty-five chloride of lime, 1 per cent. 3. Solution of carbolic the cover removed or freely opened.) 3. Immersion the liberal use of a strong solution of mercuric chloin boiling water for one hour. 4. Immersion in the ride (the concentrated solution-"blue solution" of blue solution (mercuric chloride and sulphate of this salt with cupric sulphate may be used). (b) copper), two fluid ounces to the gallon of water.

Porcelain. Washing, several times repeated, with: using three pounds of sulphur to every 1,000 cubic 1. Solution of mercuric chloride, 1:1000. (The feet of air space; the cargo should then be discharged blue solution, four ounces to the gallon of water, on lighters; a liberal supply of the concentrated somay be used.) 2. Solution of chloride of lime, i lution of mercuric chloride (four ounces to the gallon)

solution. 3. Mercuric chloride, 1:1000; recomfor the entire surface of the body.

For the Dead.—Envelop the body in a sheet thor-1:500. 3. Carbolic acid in solution, 5 per cent.

solution, 2 per cent. (b) When vacated: Fumigate with sulphur dioxide for twelve hours, burning three pounds of sulphur for every 1,000 cubic feet of air space in the room; then wash all surfaces with one afterward with soap and hot water; finally throw open doors and windows and ventilate freely.

For Merchandise and the Mails.2—The disinfection of merchandise and of the mails will only be required usually be sufficient. If disinfection seems necessary, fumigation with sulphur dioxide, as recommended for woolen clothing, etc., will be the only practicable method of accomplishing it.

wiping away infectious discharges should at once be burned. (b) Rags collected for papermakers during the prevalence of an epidemic should be disinfected before they are compressed in bales by: 1. Exposure to superheated steam (twenty-five pounds pressure) for ten minutes. 2. Immersion in boiling water for half an hour. (c) Rags in bales can only be disinfected by injecting superheated steam (fifty pounds

ing being freely exposed, and the gas present in the washed in every accessible place, and especially the disinfection chamber in the proportion of four vol-localities occupied by the sick, with: 1. Solution of by the discharges of the sick: 1. Destruction by fore recommended may be used). 2. Solution of pounds pressure—for one hour. (Mattresses to have acid, 2 per cent. The bilge should be disinfected by Upon arrival at a quarantine station an infected ship For Furniture and Articles of Wood, Leather, and should at once be furnigated with sulphurous acid gas, per cent. 3. Solution of carbolic acid, 2 per cent, should be thrown into the bilge, and at the end of For the Person.—The hands and general surface of twenty-four hours the bilge-water should be pumped the body of attendants, of the sick, and of convales out and replaced with pure sea-water; this should be cents at the time of their discharge from hospital; repeated. A second fumigation after the removal of t. Solution of chlorinated soda diluted with nine the cargo is to be recommended; all accessible surparts of water (1:10). 2. Carbolic acid, 2 per cent. faces should be washed with one of the disinfecting solutions heretofore recommended, and subsequently mended only for the hands, or for washing away in- with soap and hot water.—Report of the Committee on fections material from a limited area, not as a bath Disinfectants of the Amer. Pub. Health Association.

The Prevention of Mammary Abscess.—Dr. A. oughly saturated with: 1. Chloride of lime in solu- W. Edis, in a note on this subject, says: 1t being tion, 4 per cent. 2. Mercuric chloride in solution, believed that friction of any kind, in the large majority of cases, rather tended to produce than prevent mam-For the Sick-Room and Hospital Wards.—(a) While many abscess it was long since discarded. The apoccupied, wash all surfaces with: 1. Mercuric chlo-plication of a long strip of belladonna plaster, sixteen ride in solution, 1:1000 (the blue solution contain- or eighteen inches long and six or eight inches deep, ing sulphate of copper may be used). 2. Chloride with round apertures, so as to leave the nipples free, of lime in solution, 1 per cent. 3. Carbolic acid in tightly across the chest, the breasts being brought well up towards the median line, for many years was the only resource adopted, beyond careful regulation of the diet, abstention from fluids, gentle purgation, etc. This method never failed, but it was often found of the above-mentioned disinfecting solutions, and that the smell of the belladonna produced so much nausea in delicate patients as to preclude the employment of it. Thinking that, in all probability, the pressure exerted, contributed greatly to the advantage derived, I was induced to rely upon a few turns under exceptional circumstances; free aëration will of a rib-bandage, or the application of a thin towel or diaper across the chest, the breasts being brought well towards the sternum. Since adopting this method, I have never known it fail. Not a single instance of ethod of accomplishing it.

The mammary abscess has occurred in a long series of cases, extending over several years. The only precaution requisite is to apply the pressure on the second day following parturition, before the breasts begin to fill, and to see that the whole of the glands are included.

> It is well to elevate the shoulders somewhat more than usual, and not to allow the bed-cloths to cover the upper part of the chest, the sheet alone sufficing to prevent any risk of chill. Restriction as to the amount of fluid, for the first few days, and attention to the bowels, are all that is requisite to ensure success. Some little inconvenience, a feeling of tightness, or burning pain, is often experienced; but if the

<sup>&</sup>lt;sup>3</sup>For articles of metal, use Solution No. 3 <sup>2</sup>In order to secure penetration of the envelope by the sulphur dioxide, all m il matter should be perforated by a cutting stamp before fumigating

pressure be maintained, no harm results, and within affected—the second phalanx of the thumb and the the course of a few days, the turgescence subsides, two terminal phalanges of the index and middle finand the difficulty is at an end. In order to keep the gers-were found to have wholly recovered their genseems to be unusually abundant, a mixture of bromide involved. Complete restoration followed after sevand iodide of potassium may be prescribed with bene- eral months. fit. In only a few instances has it been found reof a breast-pump or exhausted soda-water bottle, and which loss of function results from traumatic division this only once or twice.

to many, as I not unfrequently see instances of mammary abscess brought on, I verily believe, by the old-trophy of the neurilemma. It is always surprising fashioned method of rubbing and irritating the breasts. that the cicatricial changes which must take place in

-British Medical Journal, Nov. 7, 1885.

HYPNONE AS A HYPNOTIC.—The fanciful name hypnone has been applied to methylphenylacetone. At the request of M. Dujardin-Beaumetz, who insists that it should be used only in cases of sleeplessness from over-excitement of the brain, and not where there is pain, M. Pierre Vigier (Gas. hebdom. de Méd. et de Chir.) has experimented with regard to its administration. The amount necessary to produce sleep varies from four to ten drops, which should be taken all at once, for divided doses do not succeed. The drug is scarcely soluble in water, and but slightly soluble in glycerine; but dissolves readily in alcohol. A syrup may be made in the following proportions:

Hypnone	
Ninety per cent. alcohol	
Syrup of orange-flowers	
Syrup of cherry-laurel	T.1 66

Let the drop of hypnone fall into the alcohol, add the syrups, and keep in a tightly-stopped bottle. like manner an elixir may be made of the following ingredients:

The taste of these preparations is said to be very bearable. The drug itself has a very hot taste, and its odor reminds one of essence of bitter almonds, with a suggestion of wintergreen. - New York Medical Journal, Dec. 19, 1885.

NERVE SUTURE, WITH IMMEDIATE RESTORATION OF twenty-four hours! The parts which had before been in severe cases of Indian enteric, it becomes the

bandage or towel from slipping down, a shoulder strap eral and tactile sensibility; while the sensibility to from back to front, or merely pinning the bandage to pain and temperature had returned in the thumb and the night-dress, suffices. Where the secretion of milk in the upper half of the phalanges of the other fingers

This remarkable case firmishes a strong support to quisite to draw off a small quantity of milk, by means operative interference in other cases than those in of a nerve; for in this one the nerve was not found I venture to think these remarks may prove of value divided, but the part under the wound was occupied by an enlargement which was formed by pure hyperor immediately adjacent to, a resected nerve, should have so little effect in disturbing the result of the operation. In the case mentioned, it seems to have had some disturbing influence, although this passed oft with time. Further, this case is interesting as raising questions in physiology which will bear close study, namely, as to the reinstatement of one part of the function of a nerve while another remains in abeyance, as well as in regard to the relation of the different forms of sensation, which are commonly divided into: common sensation or sensation of pain, and the tactile sense, which includes appreciation of changes in temperature. As Surmay's case seems to have been studied with great care, and to present many of the conditions of scientific accuracy, it may contribute materially to our knowledge of the physiology of the nerves.—Medical News, Dec. 19, 1885.

GRADUATED BATHS IN TYPHOID FEVER .- Dr. J. Pedlow, in a note on this subject, says: During my last year in India I used a graduated bath in all cases, as a rule, where the temperature reached 102.5 at 3 o'clock in the afternoon, and was rising. I had a special bath made for this purpose, a little over five feet long, and rather shallow. The patient, rolled in a thick blanket, was lifted into it, and the head rested on a pillow in the bath. The water was usually at a temperature of 86° Fahr.; instead of reducing it, it was gradually brought up to 92° and 93°. By this means, when the patient's temperature remained high, I was able to keep them in the bath for an hour or more without much feeling of chilli-The tendency to the latter was also often obviated by keeping the hands in an India-rubber bag FUNCTION .- One of the most remarkable results of filled with hot water. The temperature was frethe suture of a nerve ever reported is given by SUR- quently taken in the mouth. Many patients in MAY, in the Archives Gen. de Médecine, for Oct. 1885. whom, owing to delirium, this could not be noted The case was that of a man who had received a cut before immersion, became quite tranquil in the bath, above the wrist, resulting in abolition of the function and the observation was easily made. In this way, of the median nerve. For some time no attempt had I used it in seven very severe cases in the summer been made to correct the defect. Then electricity and autumn of 1883, in Bangalore, at the infantry was tried without result. Six months after the acci- station hospital; of these, six recovered. In the case dent, Surmay resected about three-quarters of an which died, it was only used twice, at a time when inch of the nerve, and joined the cut ends with a fine the bowel, as indicated by the stools, was in a gancarbolized catgut thread, which had been ingeniously grenous condition, and when the case was considinserted before the intermediate portion was cut out. ered hopeless. When we look at the very early pe-The function of the nerve was reestablished within riod at which cerebral and intestinal lesions appear that if the bath-treatment, as laid down in most textthe mortality of this fever would be very much reduced in India.-Brit. Med. Jour., Nov. 28, 1885.

THE PHYSIOLOGY OF HEPATIC COLIC.—N. P. SI-MANOWSKY, (Zeit. Klin. Med., Band. V.), wishing to clear up the physiology of hepatic colic, has recently undertaken a series of experiments upon dogs. first established a biliary fistula, and, afterward, submitted the gall-bladder to different forms of irritation. As a result of his experiments, the following conclusions were reached:

1. The introduction of electrodes or any other foreign body into the gall-bladder produces violent pain. beyond the first toxic symptoms.

2. When the electrodes are introduced or withdrawn, pain, similar to that caused by spasmodic contraction of the walls of the gall-bladder is produced.

3. The pulsations of the heart are increased in frequency under the influence of feeble electric They are diminished by strong currents, currents. and the cardiac rhythm is disturbed.

4. When the electrical stimulation is maintained for a considerable period, the eardiac actively diminishes. Under the same conditions the same effect is observed with feeble currents.

5. Electrical excitation increases the frequency of respiration (twenty to seventy respirations per minute). Strong excitation causes a momentary arrest of respirations.

6. The rectal temperature is elevated during excitation. There is no relation between this effect and violent movements on the part of the animal.

7. The temperature of the skin, taken at symmetrical points presents great variation under such excitation of the gall-bladder, being frequently elevated on one side and depressed on the other.

8. At the termination of such experiments, paresis of the posterior limbs was not infrequently observed. In some cases this condition persisted for several,

9. Excitation of the gall-bladder frequently produced vomiting.

10. Excitation always produced increased bloodpressure, provided that the vagus had not been previously divided in the neck .- Revue des Sciences Midicale, July, 1885.

on this subject, in the American Journal of the Medinducing such a sense of well-being that most of them British Medical Journal, Nov. 25, 1885.

more imperative that the bath should be early resort- have felt the need of it when it was discontinued, so ed to, and systematically continued, morning and that several take it continuously. In one very afternoon, as long as the temperature runs high; a marked and typical case  $\frac{1}{30}$  to  $\frac{1}{25}$  of a grain has been marked fall of two or more degrees will usually occur taken daily three times for nearly two years. In three-quarters of an hour in a bath of about 90° F. none, however, was there any real improvement. In other respects, improvement is noted; the dry Dr. S. Weir Mitchell, in his work on the treatment parched lips become moist and softer, delirium dis- of neurasthenia by rest and forced feeding, recomappears, and the intellect clears up. I have no doubt mends strychnia in doses of gr.  $\frac{1}{30}$  at the time when patients are to be taken out of bed. I have pursued books, or in the way I have briefly noted, were more this plan in a number of such cases, and have satisfrequently resorted to, under the careful personal su-fied myself that it is invaluable. But, singular to say, pervision of the medical officer in charge of the case, three cases of neurasthenia, which were treated in the general way, bore strychnia in gr. 1 doses badly, severe toxic symptoms being induced in two. have never felt it safe to exceed gr.  $\frac{1}{20}$ . Indeed, even when giving  $\frac{1}{50}$  or  $\frac{1}{40}$  of grain, I have always been on my guard, because I have on several occasions found the action of the medicine to be cumulative. It was notably so in the case of transverse myelitis with contracture. Nor have I ever been able to dispossess myself of scepticism as to the benefits to be obtained from a toxic dose, which may possibly vary in amount with each individual and each disease; and I have therefore refrained from increasing the dose

EXTENSOR TENDONS OF THE FINGERS.—Besides some interesting researches on the synovial sheaths under the posterior annular ligament, Dr. Wenzel Gruber has recently described in Virchow's Archiv a tensor ligamenti carpi dorsalis, not hitherto observed. It existed in both fore-arms of a woman. It was short and fusiform, and arose from the ridge of the ulna between the extensor ossis metacarpi and the extensor secundi internodii pollicis, lying between them, above and between the former muscle and the short extensor of the thumb lower down. It ended in a short ribbon-like tendon, which was mostly lost in the posterior annular ligament, but some of the fibres were attached to the bony ridges which bordered the broad grove for the radial extensors. Dr. Gruber has also described a case where a peculiar arrangement of the extensors of the fingers existed. He had previously noted that an extensor digiti quinti et quarti proprius existed in about 10 per cent. of several hundred subjects under his inspection, though often unilateral. In this case, both the special muscle existed and also a distinct division of the muscular part of the common extensor, supplying a tendinous slip to the ring-finger in the left hand and another to the little finger. As those fingers also received a tendon each from the main part of the common extensor, they were unusually well supplied. The supernumerary extensor, springing from the common extensor, ran in a special sheath under the posterior annular ligament. In the language of the English dissector, there were in this case two tendons supplied STRYCHNIA IN NERVOUS DISEASE.—In an article to the ring and little fingers from the common extensor, whilst the extensor minimi digiti divided into ical Sciences, October, 1885, Dr. Landon Carter two tendons, one going to the ring, the other to the Gray says: In five cases of progressive muscular little finger. A tendinous band ran from the first atrophy I have given strychnia in doses up to gr. 25. metacarpal bone to the back of the capsule of the In all of them it acted as a remarkable stimulant, metacarpo-phalangeal joint of the index-fingerTHE

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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THE DURATION OF THE ACTION OF MEDICINES.

"Does our present knowledge support the view that medicines act during definite periods; that is, can we rely on a given dose of a drug influencing the organ in which it acts for the same space of time in different individuals, or on the same individual at different times?" Such is the question asked by DR. D. J. LEECH in a most interesting introduction to a discussion before the recent annual meeting of the British Medical Association. The question is not only highly interesting in itself, but far-reaching, and one to which but too little attention has been given. It directly involves another question, Is not the frequency with which doses of medicine are given, in a great many cases, simply a matter of routine? "At the present time one of the leading objects of the therapentist is to alter the functions of certain tissues or organs, temporarily or permanently. Sometimes we aim at restoring the normal functions of parts, sometimes neutralize evils arising from a disordered condition of other parts on which we cannot act. But whether our purpose be to restore or modify, we know it can rarely be attained except by acting on the tissues or be attained."

variations in the duration we may be said to know sistent than that of nitro-glycerine.

almost nothing. There are so many factors in the case, and so many causes of error, that the difficulties in the way of exact determination are very great. The time at which absorption begins must vary in given cases, and when medicines are given per os no action can take place until absorption begins. Some preparations are less soluble in the stomach than others, even of the same drug. Or a very slight alteration in the condition of the stomach may cause delay in this respect. When the action of a drug is unduly delayed we naturally attribute it to delayed absorption. Again, the action may be delayed by insusceptibility to the drug in a given case, or diminished susceptibility of the organ in the same case at different times. Still further, "when drugs act in a similar manner on the same tissues, the relative periods of their activity may vary distinctly." This is shown by comparing the duration of the action of ether and alcohol, the two drugs affecting the same tissues and functions, and the symptoms of intoxication produced by each being the same.

And here it may be pointed out that in spite of our want of knowledge on this subject, we have learned by experience that there is a relative uniformity in the period of activity of many drugs; while ammonia acts quickly on the heart, its effects are evanescent; but while the tonic effects of digitalis appear but slowly, they last for a long time. "Of our diuretics, purgatives, and emetics, some act for a shorter, some for longer, period. The diuretic effects of caffein, for example, soon cease when we stop the administration of this drug, whilst the increased flow of urine which is produced by digitalis usually goes on for a long time, sometimes for several days, after the medicine has been discontinued. The difference in the period during which these two drugs act, may of course depend on the fact that they exert their influ-, ence on different tissues. Caffein, it has been sugwe desire to modify functions for a time, and thus gested, stimulates the tubular epithelium, whilst digitalis causes diuresis through its effects on the vascular system. But the relative difference in the duration of action must certainly be dependent on the fact that each influences the tissues it affects for a more organs we wish to influence, with a certain degree of or less definite period of time." In this connection continuity; and we should endeavor, therefore, to may be mentioned the resemblance between the repeat our medicines in such doses, and at such in- phenomena produced by amyl nitrite and the nitrites tervals, that the continuity of action we desire may and nitro-glycerine, as pointed out by Brunton, Cash, Murrell, Hay and others. Though this resemblance Our knowledge of the time during which a drug is very strong, the duration of the effects of amyl will act on an organ, though it should be the basis of nitrite is very much shorter than in case of the other our intervals for administration, is unfortunately but drugs; and Hay has shown that the influence of too limited; and as regards the causes which lead to sodium nitrite on arterial tension is much more per-

Dr. Leech's experiments on the duration of the not susceptible to the action of the nitrites, hardly action of drugs were limited to the effects of a very any fall is seen during the first half-hour, and the few drugs on arterial tension; the drugs being amyl normal tension is regained in about an hour and a nitrite, ethyl nitrite, nitro-glycerine, sodium nitrite, half." From some experiments made with spirit of potassium nitrite, and helleborein. The phenomena nitrous ether, Dr. Leech believes that seven or eight produced by the nitrites and nitro-glycerine vary con-minims of pure ethyl nitrite will "usually keep the siderably in different individuals. While some persons tension depressed for at least forty-five minutes, in can take five drops of a 1 per cent. solution of nitro- some people for rather more than an hour;" and he glycerine, or even more, without unpleasant effects, thinks that the effect on the circulation often persists others are disagreeably affected by one drop. The during the whole of the second hour. But while the persons selected for experimentation were of different depression of tension is more prolonged than in the susceptibility, and normal tracings were taken previ- case of amyl nitrite, it is not so great. Nitro-glycerine ious to the administration of the drugs. The sub- not only acts more powerfully and quickly than ethyl jects were all free from cardiac diseases, and the ob- nitrite, but its effects are more prolonged. "A single servations were made, so far as possible, under similar drop of a 1 per cent. solution causes a fall in the conditions as to time of day, food, etc. With amyl pulse-tension in one and a half to two minutes, and nitrite the influence on the pulse commences im- in three or four minutes the fall is well-marked." The mediately after the inhalation, and the tension is re-pressure continues low for about ten minutes, or a duced to its lowest point in from thirty to sixty little longer, then gradually rises to almost normal in seconds; "the blood-pressure then rises again, and about half an hour. But on account of the oscillations usually attains its ordinary height in a minute and a the normal is not perfectly reached until the lapse of half," as Murrell states. In some cases, however, an hour or an hour and a half. As already stated, from two to four minutes elapse before the pressure however, this drug affects some persons more powerrises. In quite a number of cases, also, the tension fully and for a longer time than others. With sodium may again fall after the first apparent recovery, and and potassium nitrite—the alkaline nitrites—while or ten minutes. In still other cases there may be a duration of the effect seems to be more prolonged. slight fall after the second return to the normal, and Dr. Leech estimates that "whilst the average duraoccur during the action of all the nitrites, and he re- of three grains does not last so long by half an hour." fers to them as oscillations. In one case the effect individual at different times."

a 25 per cent. solution, in alcohol, causes, in those every turn. susceptible to the influence of the nitrites, a slight fall in tension within a few minutes; but, as a rule, AMERICAN MEDICAL ASSOCIATION; tTS NEXT the greatest effect is not noticed until from six to fifteen minutes have elapsed. For twenty or thirty | As the next Annual Meeting of this important Na-

the return to the normal does not take place for eight the effect is not so quick as with nitro-glycerine, the the effects will continue for twenty minutes or half an tion of five grains of an alkaline nitrite in ordinary hour. Alternations of this kind, says Dr. Leech, individuals is about five and a half hours, the effect

While it is seen by the preceding sketch of Dr. of amyl nitrite was traceable for more than an hour. Leech's paper, which is to be found in the British While, therefore, the effects of this drug vary consid- Medical Journal, of Nov. 28, that but a very limited erably, "its very marked tension-reducing influence number of drugs were experimented upon, and the never lasts more than one and a half to two minutes, the experiments limited to their effects on arterial tenbut a slight depression of blood-pressure is commonly sion, we must regard the contribution as one of great present for a longer period, and not only does the value, and as in part opening the way to very importduration of the influence of the amyl-nitrate differ in ant work. It would seem, too, that the question of different people, but it is also variable in the same the duration of the action of drugs must be primarily included under the department of pharmacology, and With nitrite of ethyl the tension is depressed for a thence be extended to the duration of the action of much longer time than with nitrite of amyl, and in medicines in disease. And certainly, while the field quite a different manner. "A dose of 25 minims of is practically boundless, there are mines of wealth at

# ANNUAL MEETING.

minutes longer, the tension continues low. Then a tional organization will commence on the morning of return towards the normal takes place, usually with the first Tuesday in May, 1886, in St. Louis, Misoscillations. I have traced the effect of this nitrite souri, only four months remain for those who are for two hours. Where the dose is small, or in those contemplating the presentation of papers, reports, or

ments of the rule. The first is that the actual dis- tion of the facts. coveries and improvements made in most of the of these objections are well founded.

attention, and some that he does observe are of such litate the correspondence, we have placed under the a nature that he has not time to examine the evidences head of "Association Items," the names and address on which their claims to importance rest. If the of the general officers of the Association and of the Chairman of a Section should simply cull from the several Sections. pages of the medical periodicals a list of the alleged

any matter of interest, to complete their prepara- discoveries and items of advancement, we admit that tion. To ensure a profitable meeting, and especially his discourse would possess comparatively little inone of high scientific interest, it is necessary that terest. But it should be his object not only to preparations should be commenced early and a present such a list, but to critically examine and systematic programme of work arranged for each point out the evidences on which each item rests for Section. The ordinary routine of miscellaneous its claims to our confidence. He should show what business, with the addresses of the Chairmen of Sec- items are really new and what are merely old ideas tions, usually fully occupy the general morning ses- or modes of practice, clothed in the novel phraseology sions during the four days occupied by the Annual of a new theory. He should also critically examine Meeting. Indeed, unless these officers, in the pre- the methods of investigation by which alleged facts paration of their annual addresses, adhere more or conclusions have been reached, showing defects closely than usual to the requirements of the by-laws, where such exist, and suggesting remedies for them. it will be impossible to crowd them all into the time. A series of such addresses, each kept rigidly within allotted to the general sessions, and, as on former the limits of time prescribed by the by-law, delivered occasions, some will be read only by their titles and by the Chairmen of the Sections before the members referred, a practice which should not be encouraged, of all the Sections in the general sessions, would The by-laws require from the Chairman of each afford not only a most interesting and profitable an-Section an Address on the discoveries and improve- pual review of the various departments of medicine, ments made in the branches included in his Section, but their subsequent publication in The Association during the preceding year, and that not more than JOURNAL would bring the same to the attention of the forty minutes shall be consumed in its delivery. Two whole membership and exert an important influence objections have been made by former Chairmen of in promoting better methods of investigation and Sections against a literal compliance with the require- avoiding conclusions based on only a partial observa-

Perhaps the most important part of the work of branches of medical science, in any one year, are preparation for the next Annual Meeting, however, not sufficient to constitute the subject of an address; is that relating to the programme for each of the Secand the second, that all such discoveries are at once tions. If this is left entirely to the voluntary offering published in the medical periodicals, and conse- of papers, experience has shown that while some quently their re-statement in a public address would Sections will have more than there will be time to be only repeating what is already familiar to the pro- hear, others will be comparatively unoccupied. To fession. A closer examination will show that neither avoid this, the Chairman and Secretary of each Section should invite a sufficient number of thoroughly A careful student of current medical literature competent parties to prepare contributions on importcannot fail to discover, during every year, items of ant topics, to secure at least one or two leading progress, proposed changes, and suggestions sup-papers for each of the three sessions of the Section, posed by their authors to be new, in some parts of and one or two equally well-qualified members to the field covered by any one of the Sections, suffi- open the discussion of each paper. Having secured cient to constitute the basis of a most interesting this much, they can safely trust to voluntary contridiscourse of thirty or forty minutes. Again, while it butions for filling up all the rest of the time profitmay be true that every new idea or supposed dis- ably. If this part of the work has not yet been covery, and every suggested improvement, finds its attended to, the officers of the Section should lose way to the profession through the columns of the no more time before engaging earnestly in the work medical periodicals, it is not true that every member before them, remembering that the best answer to of the profession takes all these periodicals or finds all those who have been indulging in depreciative time in the midst of the practical duties of the pro- remarks in regard to the Association, is a meeting in fession to examine critically those he does take. St. Louis characterized by earnest, thorough and Consequently some items of importance escape his important scientific work in every Section. To facil-

# SOCIETY PROCEEDINGS.

## AMERICAN PUBLIC HEALTH ASSOCIATION.

Thirteenth Annual Meeting, held at Washington. D. C., December 8, 9 and 10, 1885. (Continued from page 714, Vol. V.)

Wednesday, December 9-Second Day.

Afternoon Session.

HON, ERASTUS BROOKS IN THE CHAIR.

Dr. Granville P. Conn, of New Hampshire, read the

REPORT OF THE COMMITTEE ON STATE BOARDS OF HEALTH.

The report concludes as follows:

that in carrying out the object of their creation it is Missouri. necessary to have a conference of delegates from State Boards of Health at least once a year for the remark that the work in his State Board had been purpose of consultation and to promote unity of similar to that of other States. The people there action on matters essential to public health, the pre- demand protection through the State Board of vention of epidemics and the most efficient means of Health. But one family, coming direct from Moninstructing the people in sanitation.

most suitable occasion for holding this conference would be during the annual meeting of the American Public Health Association, and that our President and Secretary arrange the time of the meeting in connection with the Executive Committee of the on tenement house inspection and inspection of American Public Health Association so as best to schools has been put in book form and was favorpromote the interests of the Association and the ably received. conference.

of Health.

### REPORTS OF STATE BOARDS OF HEALTH.

His Board attached the utmost importance to the purposes. recently enacted law providing for instruction in account of the investigation of the fever endemic in vital statistics. Louisville, and stated that no practical result had so far followed except the worthless one to substitute Board of Health will ultimately be established in

were called. Dr. Kennedy, of Iowa, said that the bills presented in the legislature have been too short law of his State gave the Board almost absolute and others too long. A committee is now at work

power to vaccinate everybody under 21 years of age. DR. GERRISCH, of Portland, Maine, reported how the Board of Health of his State had been organized last year, but three votes out of 181 in the Legislature being opposed to it. The sum of \$3,000 was appropriated for it the first year. He thinks \$5,000 will hereafter be appropriated annually, as well as \$5,000 additional to be used as an epidemic fund. But two cases of small-pox have occurred in his State since the outbreak of the disease in Montreal.

Dr. Henry B. Baker, of Michigan, added that the Board of his State and the people have been unusually active during the past year in taking all the necessary precautionary measures to prevent

small-pox and other contagious diseases.

Dr. Cox, of Missouri, said the Board of his State had all things well under headway to avert any epidemic of small-pox, or any other epidemic disease. The water supply was well arranged, and whole-First. That it is the judgment of the Committee some water was almost universally used throughout

Dr. G. P. Conn supplemented his paper by the treal, has had small-pox in his State for many months, Second. The Committee would suggest that the and that occurred in Manchester, although 1,000 people had come to Manchester from an infected district in and about Montreal.

DR. EZRA M. HUNT, of New Jersey, said his Board had been well sustained by the people. The report

HON. ERASTUS BROOKS, of New York, said that Third. Any conclusions of this conference that are their Board was a very efficient and thorough organof interest to the public shall be reported by the ization. In 1,000 towns, 240 villages and twenty-four Secretary to the American Public Health Associa- cities there are local boards of health. In a number of tion, through the standing Committee on State Boards the cities they are distinct and independent organizations, and independent of the general law. They are trusted to establish their own local board, and at least one competent person is selected to take care Dr. J. N. McCormack, Secretary of the State of the interests of the locality. The appropriation Board of Health of Kentucky, submitted a brief re- for the State Board of Health was \$20,000 for the port of the operations of that Board for the past year, past year. The Secretary receives \$3.500 a year, and indicated an increased interest in health on the and he is the Board's executive officer. The city of part of both the profession and people of that State. Brooklyn expends about 75,000 a year for sanitary

DR. THOS. F. WOOD, of North Carolina, stated regard to the plain laws of health in all public that the Board of Health of his State had been reschools, but has not been successful in finding any organized since the last meeting of the Association, text-book suited to this purpose—most of those now the legislature of January, 1884, appropriated \$2,000 in existence being only treatises on anatomy and for the Board, and \$2,500 as contingent fund to exphysiology, with deficient, crude or misleading in-periment on drinking water, etc. Of ninety-four struction on the important subject of the prevention counties in North Carolina, fifty counties have orof disease. He referred to the recently published ganized local boards, and a plan for registering

DR. R. HARVEY REED, of Ohio, thinks that a State tube wells seventy-five feet deep for those now in use. Ohio. In his State there have been divisions upon. In the discussion that ensued, the various States, this subject, even in the State Medical Society. Some from that Society preparing a bill to present to the measures stamped it out. From the last two cases many quacks are in that State. They work against deaths, which occurred in a town of 10,000 people. the organization of a State Board. These quacks are very numerous, being driven there from adjacent that out of 660 local boards of health that had been and other States of the Union.

many local boards of health organized throughout Ohio; \$25,000 to \$28,000 were expended yearly at Cleveland by the local board. He thinks the prospect is not very good at present for the organization

of a State Board.

DR. FISHER, of Rhode Island, said that in his months in the Province of Quebec. State, advancement is being made in public sentiment and in the practical performance of measures taken for the care of the public health, although personal liberty is what the people of his State dote upon: taking the view that a man should not be deprived of his liberty, and should live in as much filth as he likes. Vaccination has been thorough in at least two-thirds of the towns throughout his State since the epidemic of small-pox has broken out in Rhode Island requires that pupils before entering school must be vaccinated; hence the State is well protected against small-pox.

Dr. G. B. Thornton, of Memphis, said the State Board of Tennessee had been very materially strengthened at the last legislature, by two acts, by the first of which \$10,000 a year and \$5,000 are to be used exclusively for quarantine purposes. The second provides for the creation of county health officers. Such an officer must be a physician, and he reports to the Secretary of the State Board any case of cholera or any other infectious or contagious disease.

Dr. Swearingen, of Texas, said that in Mexico there were ten cases of small-pox to one case in Canada, yet but few cases ever occur in Texas, and no epidemic of any magnitude has ever broken out in Texas. This is on account of the inspection ser-

vice at El Paso.

Dr. J. G. CABELL, of Richmond, Virginia, stated that about fourteen years ago the Virginia State Board of Health was organized upon the basis that it should be at no expense to the State. The Board consists of seven members. No child in Richmond

Dr. James L. Reeves, of Wheeling, briefly stated that West Virginia owed this Association much for its State Board of Health. In 1881 there was not a health board worth the name in the entire State. while now, a board is organized in all the counties

and municipalities throughout the State.

DR. J. T. REEVE, of Appleton, Wis., said that some progress has been made in his State during the past year, stimulated by the anticipated approach of chol-\$30,000 was appropriated by the last legislature, and \$15,000 for each of two years before it meets again, as a contingent fund for cholera or other epidemics, although the State has been free from epidemics of all kinds. Small-pox has visited the State but two or three times during the past year. but it was confined to a single case in each instance. The two cases came direct from Montreal, and prompt

Legislature. Another thing to contend with is that there arose, in all, eighteen cases, with a result of five

DR. T. S. COVERNTON, of Toronto, Canada, said established in Ontario, 520 had sanitary inspectors. DR. ASHMAN, of Cleveland, Ohio, said there were Disposal of sewage is being properly attended to throughout his Province. \$3.000 a month for the past four months has been expended to stamp out small-pox in the Province.

DR. WM. H. HINGSTON, of Montreal, said that 250 boards have been organized during the past two

EVENING SESSION.

THE PRESIDENT IN THE CHAIR.

Dr. Benjamin Lee, of Philadelphia, read a paper entitled

THE DEBIT AND CREDIT ACCOUNT OF THE PLYMOUTH EPIDEMIC.

on the Credit side being placed the "State Board of Health and Vital Statistics of the Commonwealth of Pennsylvania;" and the following on the Debit side: Cost of illness of 1153 cases, \$59,100.17; expenses of hospital, \$8.000; loss of earnings during sickness. \$30,020.08; capital represented by loss of income, of 114 persons who died, at three per cent. per annum, \$613.984; total. \$711,104.25.

The total number of sick was 1153, the population being estimated at about 8,000. Of the number attacked with the disease 114 died. The proportion of deaths in the hospital was about three per cent., which is unsurpassed by the record of any other hospital in the world. The expenses incurred by the epidemic are estimated at \$67,100.17, of which amount \$8.000 was consumed in running the hospital. Of those who were ill with the disease and recovered the loss of earnings during illness was found to be \$30,020.08. Thus the total cost of the epidemic is reckoned at \$97,120.28. By the 114 deaths a monthly earning of \$1,534.96 ceased, showing a loss of \$18.419.52 per year in incomes. The State Legislature contributed \$5,000 for the maintenance of the hospital. The State of Pennsylvania therefore disbursed directly from its treasury for the relief of the sufferers from this single outbreak of preventthat the Legislature now allows for the expenses of epidemic. But for that sad calamity the efforts of appreciate, the most bigoted could not withstand. Board of Health of Pennsylvania was born.

Dr. E. M. HARTWELL, of the Johns Hopkins

THE GERMAN SYSTEM OF PHYSICAL EDUCATION.

upon sports, gymnastics, physical training, etc., in The effect on traps in the drains of houses can be class. There are in Berlin ninety-eight gymnasiums, United States. and in 1880 and 1881, of the \$1,760,000 appropriated by the city for educational use, one-thirtieth of that descended into one of the great sewers, remained

most part, do so in connection with their other was "chemically pure," I determined to disinfect classes, but they must first go through a regular nor- the 200 miles of sewers and see what would come of mal school of gymnastics. In 1885 there was appro- it. The work of disinfection was begun with coppriated for the Royal Normal School for Gymnastic peras. There are in the streets and alleys of Detroit Teachers, established at Berlin in 1851, something about 5,000 receiving basins communicating with the over \$21,000, and here teachers from all over the sewers. Into each of these were thrown a dozen German Empire come to learn, so that they may go pounds of copperas. To each school-house, police back home and teach their pupils. Details of officers station, fire-engine house, and to every other public from the army become pupils so that they may teach building, a barrel of copperas was sent, at the city's the soldiers, and the effect of this training is seen in expense. We used 75,000 pounds of copperas, purthe superiority of the German soldiers. They can chased by the carload, at \$13 a ton. At the same get over a picket fence fifteen feet high without lad- time I made an arrangement whereby citizens could ders and without catching any of their clothing or purchase, of a wholesale dealer, copperas for one accourtements. The Germans introduced gymnastic cent a pound. As nearly as I could calculate, the exercise into America, and we could not do better citizens purchased and used about 200,000 pounds than to embrace their system, adapting it, of course, during the season. The direct and indirect effect on to our institutions, thus enabling our youth to bear the sewers, from the use of nearly 140 tons of copthe brute strain of study.

a paper entitled

# EXPERIMENTS IN DISINFECTING SEWERS.

traversed by more than a score of great conduits, good plumbing and proper drainage, but it does from four to eight feet in diameter, from two to seven something toward remedying a prevalent sanitary evil. miles in length. Most of them empty into the river To destroy the poison in the confined foul air of submerged; consequently the dead water sets back sewers; also to kill the fungoid growths on their inner in them from 1,000 to 5,000 feet. At their lower ends walls, a gaseous disinfectant is necessary. I theresometimes washed partly out in great storms. The sulphur. Three tons of roll brimstone were purmaking these huge conduits receptacles for vast vol iron pails, called steamboat pails, were purchased, at umes of sewer-gas. A rapid increase of water in the seventy-five cents each. A sufficient quantity of light big sewers, during a summer shower, has sometimes chain, and five dozen spikes, with hooks in the place

Germany. Not until 1860 was physical training made easily imagined. The lateral sewers are constructed obligatory in the public schools in Germany, and of common porous brick, thrown together by cheap three or four years ago in Prussia it was also made workmen, and are all twenty inches in diameter, obligatory for girls. It is obligatory for the boys in whether designed to drain five acres or fifty acres. the Prussian schools to train two hours every day. Sewer empties into sewer, frequently at right angles. They begin at the age of 6 and continue it until they sometimes at the top, sometimes at the bottom. are 19 or 20 years of age. The system is better or- Now and then a large sewer is connected with a ganized in cities than in the country. In Berlin in smaller one. Here and there depressions allow the 1881 there were 15,998 pupils in the high schools, of sewage to become ponded and undergo putrefactive which, in round numbers, 11,000 were boys and 4,000 decomposition. In places, the constructors have eviwere girls. Having described the origin of "turning" dently expected water to run up-hill, in obedience to or gymnastics among the Prussians and the consethe wishes of a favored contractor. Recently, more quent Turnvereins, so numerous throughout Ger- than twenty large saw-logs were extracted from a many, he turned to the subject in its present national single sewer, fifty or sixty rods back from the river. aspect. He said that in the German schools, both More than ten thousand vaults are connected with for boys and girls, gymnastics are compulsory, and the sewers, for the most part by means of eight-inch in 1870, out of all the scholars in the classical and clay or cement pipe, laid without tight joints or traps. high schools only ten per cent, were excused from No wonder Detroit has annually more than a thousand the two hours' weekly class of physical gymnastics, cases of diphtheria. Doctors there used to tell the and those only on the certificate of a physician stating people that they had the best sewer system in the that it would be injurious for them to attend the world and that their city was the healthiest in the

Notwithstanding the fact that two medical men amount was expended for the teaching of gymnastics. there, to use their own language, "twenty-four conThere are a thousand teachers in Berlin who are
capable of giving gymnastic training. They, for the
announced to an expectant public that the air therein peras, was to disinfect the sewage for several succes-Dr. O. W. Wight, Health Officer of Detroit, read sive weeks. The citizens found so much comfort from the disinfection of their foul-smelling drains that, with many of them, the use of copperas has become habitual. It is very true that copperas, or Detroit has no regular sewer system. The city is any other disinfectant, is not a perfect substitute for

they are ordinarily choked with sediment, which is fore determined to fumigate the sewers with burning submerged mouths are pretty effectually trapped, chased, at a total expense of \$150. Fifty galvanized caused such internal pressure of the confined air as, of heads, were also purchased. Holes three-quarters to throw off covers from manholes in the streets, of an inch in diameter were punched in the iron pails

a disbelieving crowd of city officials.

manhole was lifted when we reached the place of our expense is not great, and it may be used as a more destination. A spike, with a hook on the end of it, or less valuable instrumentality in a season of epiwas driven into the wall of the brick well, a foot or demic peril. two below the top; the chain was fastened to the bail so as to swing just clear of the sewage running in the the Association hear the result of his experiments. bottom. The chain was then hooked on the spike already driven. The nippers served to cut off the chain above the hook. The pail was then drawn up, leaving the adjusted chain attached to its fastening, Into the pail were put, first, a handful of lighted shavings, then on the burning shavings some faggots of wood, and lastly, on the igniting wood a small scoopful of charcoal. Over the pail was placed a sheet-iron cover, in the centre of which was inserted a single length of conical stovepipe, eight inches in diameter at the bottom and four at the top. The air rushed through the holes punched in the pail with a good draught, hastening combustion and thereby saving time. As soon as the charcoal was thoroughly aglow, the cover was removed, a dozen pounds of brimstone were thrown on the hot fire, and the pail, by means of its already adjusted and fastened chain, was quickly lowered into the sewer. It only remained to replace the cover of the manhole. We drove on to the next manhole, four or five hundred feet away. Removal of the cover revealed not only smoke, but also a strong odor of brimstone. Sulphurous acid gas traveled in the sewer as fast as we did on the road.

The work went steadily on, day after day, till a pail of burning brimstone had been suspended down each one of the 500 manholes in the city. The pails were taken up the next day following suspension, and not unfrequently, remnants of sulphur were found burning after twenty-four hours. Not a single pail missed fire. If ordinary means of igniting the brimstone had been used, there would have been many failures and much loss of time. The odor of burning brimstone demonstrated to many a citizen that his drains and waste-pipes were not securely trapped against sewer-gas. When the work was completed, the people were so convinced of its efficacy that the Board of Education resolved to have all the school buildings fumigated, in each of which, according to the size, were burned from thirty to eighty pounds of brimstone. There followed the copious use of copperas and sulphur a great abatement of diphtheria and an almost total cessation of scarlet fever.

\$1,300. With the money left out of the appropria- sition of Illinois, its commercial relations, and the

about two-thirds of the way up from the bottom, two tion, we have this year repeated the experiment. inches apart all the way around. Procuring from the Again we have treated the sewers of the city to Board of Public Works the services of two men ex- 60,000 pounds of copperas and three tons of burning perienced as to the location and construction of the sulphur. The Board of Education has adopted the sewers, loading up a wagon with a barrel of sulphur, plan of fumigating the school buildings twice a year a nest of pails, perforated as aforesaid, a quantity of The second experiment was followed, for a time, by chain, a pair of nippers, a hammer, pick, shovel, an almost complete cessation of diphtheria. Again crowbar, shavings, bundles of short wood faggots, and I say that disinfection, however thorough, is only a a barrel of charcoal, I started out amid the jeers of temporary relief from a dangerous evil, and cannot be relied on as a substitute for an unsound sewer With shovel, pick and crowbar, the cover of a system and radically defective house-drainage. The

Dr. Rohé hoped that Dr. Wight would disinfect of an iron pail and the same let down into the sewer, and fumigate the sewers of Detroit in winter and let

> MR. C. C. DENSTOE, of Cleveland, Ohio, said that plumbing and sewerage ought to come under the direction of Boards of Health.

> > THURSDAY, DECEMBER 10-THIRD DAY.

MORNING SESSION.

HON. ERASTUS BROOKS, FIRST VICE-PRESIDENT. PRESIDING.

The following were

#### ELECTED MEMBERS.

Drs. Andrew W. Imrie, Detroit; John W. Jones, Tarborough, N. C.; Frank L. Simm, Memphis; J. Howard Taylor, Philadelphia; Charles Farquhar, Olney, Md.; Carl H. Horsch; Dwight A. Richardson, Osceola, Ark; Thos. Taylor; Jas. T. Young; Z. T. Somers; P. Morgan, Jr., Washington, D. C.; Mr. Ed. J. Hannan, Washington, D. C.

The following resolution, offered by Mr. Henry Lomb at Wednesday's forenoon session, was adopted

by the Executive Committee:

#### COMMISSION ON WORKSHOPS.

Resolved, That the American Public Health Association respectfully recommend to the Commissioner of Statistics and Labor the appointment of one or more commissions of experts whose duty it shall be to visit the principal factories and workshops in this country to examine them carefully with reference to the provisions made in them to ensure the safety and health of the employés, and to report on the same, with recommendations.

Dr. John H. Rauch, Secretary of the Illinois State Board of Health, then read a paper on

MARITIME QUARANTINE FROM THE ST. LAWRENCE TO THE RIO GRANDE.

After taking the necessary action to secure the best attainable sanitary condition of the territory under its immediate jurisdiction—as one of the most important preparations against an invasion and spread of Asiatic cholera - the Illinois State Board of Health, Of course, a single experiment does not warrant at its meeting in July, 1885, authorized me, as its us in predicating a relation of cause and effect. The Secretary and Executive Officer, to make an inspecwhole expense for a single disinfection of the sewers tion of the various quarantine establishments along with copperas and burning brimstone was less than the Atlantic and Gulf coasts. The geographical poextent and character of its means of communication, there was no general interest in the subject, although the lives and health of the citizens of the State.

thority and legislation, and the fact that in such ab- and crews and the comfort of the sick on board of sence the maritime quarantines are controlled and all vessels detained at quarantine stations." But notadministered by State authorities, resulting in diverse withstanding the organization, in 1857, of a "Quarand sometimes conflicting regulations and require- antine and Sanitary Convention" for this purpose, ments, and of necessity, in a tendency to limit pre- and which held annual sessions in 1858, 1859 and cautions to their own individual interests, commercial 1860, the control of quarantine has always remained as well as sanitary, throw upon interior States the under the jurisdiction of State and local authorities responsibility of fully informing themselves of the except during the brief period in which the National strength or weakness of these outposts in order to Board of Health exercised limited quarantine powers. know where to anticipate danger and how to make cessary before this assemblage to say that we are by the importance and necessity of such action. the contagion in that country has vanished.

From the date of the earliest establishment of and from that time up to the fever summer of 1878 to their ports and territory; and many other similar

make the administration of maritime quarantine with quarantine conventions were held and the question reference to the exclusion of exotic contagious and was discussed by physicians and sanitarians, the infectious diseases a matter of sufficient importance most notable effort in this line being that inaugurated to induce the Board to secure all accessible informa- by Dr. Wilson Jewell, of Philadelphia, who, in 1856, tion on this subject, the better to enable it to dis-sought the establishment of "a uniform code of regcharge its duty with reference to the protection of ulations, operating alike in all seaports and offering the least hindrance to an active commerce and with The absence of an adequate National Health au- a humane regard for the health of the passengers

It is not proposed to discuss the necessity for Natheir own preparations to meet it. It is this infor- tional action on this subject. The National Confermation I have endeavored to secure in my inspec- ence of State Boards of Health and the American tion, and which is here presented. It is hardly ne- Public Health Association are both on record as to no means yet free from danger of an invasion of chole-mention may here be made to the existing confusion, ra simply because there is now a cessation of alarming not alone in this country, but abroad, as to the presreports from Europe. It must not be forgotten that ent status of National quarantine legislation. Such the duration of a cholera invasion of Europe is not sanitary measures as are now enforced by the Govlimited to two or three years. From the date of its ernment are based upon authority derived from the first appearance in 1829-30, in Russia, to its final Act of April 29th, 1878, to prevent the introduction extinguishment in Italy, Austria and Germany, a pe- of infectious or contagious diseases into the United riod of seven years elapsed, during which, at one time States. But the late Secretary of State, Mr. Freor another, every one of the Continental countries linghuysen, and the late Secretary of the Treasury, was invaded, some of them more than once. Simi- Mr. Folger, both decided that the Act in question, larly in 1847 it again entered Russia at ten points, having been repealed by the Act of June 2d, 1879, and before its final disappearance in the Levant in could not be revived by the expiration of this latter the winter of 1855-56 it traversed every part of the Act. The point would have less practical importthe Continent and invaded Great Britain. In its ance if the authority which assumes to act under it last pandemic spread it appeared first at Malta in can and will furnish the country the necessary pro-1865, continued to ravage various parts of Europe tection in the present emergency. As practical sanuntil 1869, when there was a complete remission, itary executives we are less concerned just now as only to break out again in 1871, and finally disappear to who exercises the authority and by what right, in 1873. With immigrants from every portion of than in the questions: Is the authority wisely exer-Europe continuously arriving upon our shores, we can cised? Is it sufficient? May we rely upon it imnot be freed from this menace until every trace of plicitly? If not, to what extent? And how can we remedy its deficiencies? It is by no means meant When this inspection was ordered it was believed by this that it would not be better that there should that it might be productive of good in stimulating be a properly organized National Health Department, improvements, and in presenting more clearly the acting under clear and undisputed legal authority, interest of distant communities in the administration and supplied with funds adequate to its legitimate of what is apt to be considered a purely local meas-necessities. That the present status of National ure. This belief has been fully realized, and the re-sanitary legislation and of the National sanitary exsults obtained have been well worth the labor and ecutive is defective and unsatisfactory, is patent to

The history of the recent attempts to control the quarantine in this country down to the present time, disinfection of rags; the complication at the port of its efficiency and the public interest in it have been New York concerning consular bills of health; the fitful and spasmodic, depending on some pressing strictures upon the inspection service maintained emergency. Small-pox from the slave trade, yellow along the coast; the friction between the Canadian fever from West Indian commerce, and typhus and health authorities and our own in the matter of insmall-pox by immigrants, led to the first quarantines, spections on the Canadian frontier; the complaints dating back to the close of the seventeenth century, of various Boards of Health that they are directed From 1791 for several years, yellow fever furnished to look to the associated press for information and the impetus; then in 1832 the cholera was added; warning concerning threatened danger from abroad and radical revision of existing sanitary legislation. communicating pestilential diseases by infected linen and rags. At the Fifth International Congress of Hygiene, at the Hague, in 1884, Ruijsh cited a mass of proof which is conclusive as to the numerous outbreaks of plague, small-pox, petechial typhus and Asiatic cholera caused by handling, sorting and carrying rags. In the absence of any national au-

As to consular bills of health, want of direct and official information concerning the sanitary condition of foreign ports and other counts in the above summary, they are essential to the prevention of the in-

troduction of foreign contagion.

Dr. Jos. Holt. of New Orleans, read a paper on THE SANITARY PROTECTION OF NEW ORLEANS.

He spoke of the means which had not vet been taken by New Orleans for the sanitation of the city, but toward which he said the people were being educated by the Health Board and by the intelligent press. Already a plan was being prepared for the systematic and thorough sewerage of the city. Maritime sanitation had taken the place of quarantine along the coast. The theory of bacillic origination for the essential cause of diphtheria, consumption, small-pox and yellow fever has passed from the realm of uncertainty into a crystallized fact. Even in our religion, incantations and long-drawn prayers are no longer looked upon as disinfectants. We have tried these and have invariably been swamped. We are no longer fighting the devil and the devil's works, but a microscopic germ-a little leaven which, if not speedily eradicated, leaveneth the whole lump. Yellow fever and cholera are due to living organisms, and it is to the destruction of these that our efforts are directed. The surest prevention of a conflagration is to quench the first spark. The surest prevention of an epidemic is to act on the first suspicion of the presence of epidemic disease. We disinfect every ship coming from cholera or yellow fever regions, regardless of bills of health or the angry cry of trade mongers. Should you ask why does not the commerce of New Orleans sweep the circuit of the world? why it has not grown as other large American cities? I would answer in one compound word-yellow-fever.

Dr. Holt spoke at length upon the success of inoculation for yellow fever. It has been proved that the germ can be inoculated in the body of the unacclimated person, and that a mild form of yellow fever will be produced thereby. The persons who have been thus inoculated have been enabled to pass through most virulent epidemics unscathed. In concluding his paper, Dr. Holt said that the principal object of his visit to Washington was to present the following resolution to the Association to bring to the attention of Congress:

#### COMMISSION ON VELLOW FEVER.

WHEREAS, The question of immunity from yellow fever is so intimately associated with the social, in- in which the subject was considered from the stand-

matters, point to the necessity of a well considered dustrial and commercial growth of Tennessee, the Southern Atlantic and the Gulf States of the Union. No sanitarian will, I presume, question the danger of as to determine the destiny of Memphis. Charleston, Savannah, Pensacola, Mobile, New Orleans, and Galveston; and

> WHEREAS. A large and accumulating mass of testimony that the power of protecting the unacclimated against vellow fever, has been discovered, and proven in the inoculation of the essential germ or cause of the disease by methods distinctly formulated and available; these aforesaid declarations and numerous instances cited in corroboration emanating from medical scientists in the biological departments in the highest institutions of learning in Mexico and

of the respective Governments:

Resolved, That we, the representatives of the Boards of Health in the several States of this Union, and we, the officers and members of the American Public Health Association, regarding the question as preëminently a vital issue; as one in its assumptions true or false; and if true, of incalculable worth, surpassing the computation of many millions of dollars and to the saving of tens of thousands of lives of its own people; that we hereby petition and urge upon both branches of Congress now assembled, to appoint a commission for the purpose of making a complete investigation of and reporting after a thorough examination of the methods pursued, their effectiveness in protecting the unacclimated against yellow fever infection, together with all associated observations and experiments that may be ascertained.

Resolved, That in the aforesaid petition the commission shall be stated to consist of three persons, one of whom shall be of known ability and special attainment in biological research, particularly in the department of microscopic investigation and culture of the essential germ or organisms causative of the infectious or contagious diseases. The other two members of the commission shall be medical men of recognized ability based upon long and ample experience, competent to give expert consideration to all phases of the symptoms and course of yellow fever in any form wherein the phenomena of the disease may present itself, whether induced in the course of pestilential invasion or in purposely devised inoculation.

Resolved, That this commission aforesaid shall proceed at the earliest practicable moment to Rio de Janeiro as the first field of its labors. Having completed there its work, it shall proceed to Mexico, and if necessary in the accumulation of testimony, to

Resolved. That the sum of \$30,000, or so much thereof as may be actually required to pay the necessary and unavoidable traveling and other expenses and the salaries of the members of the Commission.

Resolved, That the sum of \$5,000 shall be paid as a recompense to each member of the aforesaid Com-

Dr. S. T. Armstrong, U. S. Marine Hospital Service, read a paper on

point of the sailor, the passenger, the cargo, the ves- the R. E. had subsided, but the tumor remained sel, and the port. Attention was directed to the ne- unchanged or perhaps increased somewhat. cessity of legislation for preliminary examination of tumor in the L. gradually increased and in the course seamen, before shipment, of a required minimum of a month or six weeks attained nearly the size it cubic space in the sleeping quarters of the crew, of now is. The iritis subsided in the course of two or inspection of passenger and emigrant vessels regard- three weeks, but there was a slight renewal of inflaming health of passengers, crew, etc., by medical offi-mation in the R. E. a month ago, which subsided in cers of the Treasury Department instead of Col- a week. On September 29, when he presented himlectors of Customs.

ports, both by shipmasters and by inspecting officers at the port of arrival. The sanitary condition of the port was only alluded to, as the author considered this the special province of the Association, and if ports were in a good sanitary condition but little danger may be anticipated from imported disease.

#### DISINFECTION OF RAGS.

The Philadelphia Board of Health asked the Association to pass resolutions that rags should not be admitted to this country until disinfected.

At I o'clock P. M. the Association adjourned to call upon the President at the White House, accord-

ing to special arrangement.

At a meeting of the Executive Committee immediately after the adjournment of the morning session at 1:30 o'clock, it was decided that the next annual meeting of the Association should be held at Toronto, Ont.

(To be concluded.)

#### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, December 9, 1885. VICE-PRESIDENT W. H. TAYLOR, M. D., IN THE CHAIR.

Dr. Swan M. Burnett presented a boy suffering from

TUBERCULAR DISEASE OF THE IRIS,

and gave a history of the case.

Harry Haskins, white, aged 13. Seen for the first time at the Central Dispensary, on May 22, 1885. At that time there was iritis of the R. E., accompanied by the usual symptoms of pain, injection, etc., and the use of atropine showed that adhesion had already taken place to the anterior capsule of the and found, he thought, bronchial respiration together There was also visible at the lower inner peri- with a deposit in the left lung. pher of the anterior chamber a nodular tumor 2 mm. in length and 1 mm. in thickness and height. The made to exclude syphilis, if possible. tumor was of a light yellowish red. There was also a slight opacity of the cornea over this, and a leash bility of syphilis in this case. It could scarcely be of vessels running from the conjunctiva and passing over the surface of the cornea beyond the inner edge there was no evidence of such a thing. But even if of the growth. There was simple perception of light this child should have inherited syphilis, these sympin this eye. The left eye was at that time normal, toms, occurring at this late date, cannot be repaired There were hard, nodular, clearly circumscribed by mercury and potash given as specifics. The outswellings at the upper outer angles of both orbitsapparently enlargements of the lachrymal glands.

was an critis in this eye also. The active process in patient is suffering from tubercular disease of a testi-

self, there was noted a small yellowish nodule at the Disinfection of cargoes and vessels from infected outer lower papillary'edge of the iris, and a month later a similar nodule at the upper edge of the papillary margin.

Soon after he was first seen, there was noted an enlargement of a post-auricular gland, and gradually since then other post-auricular and sub-maxillary glands on both sides have become implicated.

On inquiry, I learned that there is tuberculosis in the family. Under the idea of syphilis being at the bottom of the pathological state-though a careful examination failed to reveal any evidence of either the inherited or acquired form-he was placed on mercury and iodide of potash in small doses. . The use of these remedies for several months, however, has failed to make any impression on the disease. I have seen one case of tubercular tumor of the choroid exhibited as a living specimen to this society three years ago, and there are certain points of resemblance in history and appearance in the two which make me almost certain that this case is one of tubercular deposit. The question is, if the eye had been removed when first seen, would self-infection have been forestalled. I fear that I shall have the opportunity of presenting, at some time in the near future, the morbid specimen in this case.

Dr. C. E. Hagner said he had examined the boy's lungs and found the right one healthy. There was a broncho-vesicular murmur at the top of the left lung together with some slight dulness of the same organ. He did not know whether enucleation would prevent further infection or not. He thought it would be well to put the patient under constitutional treatment for syphilis, as there was a possibility that the boy might be suffering from that disease. At any rate, mercury and potash in tonic doses could not do him any harm, even if tuberculosis and not syphilis was the disease.

Dr. Taylor had also examined the boy's lungs,

Dr. Smith thought that every effort should be

Dr. Thompson thought there was scarcely a possiacquired, for the boy was too young, and besides, come of inherited syphilis in a boy of this age would be scrofula or tuberculosis. Dr. Thompson believed In July, a small tumor exactly similar to the one this child had tubercular disease, and that the best in the R. E. made its appearance at the lower peri- thing to do was to let the eye alone. The same phery of the L. E., and in the course of a week there questions that Dr. Burnett proposes arise when the cle, a joint, or an important bone. It is not certain that the removal of any of these will prevent further infection. Even with carcinoma, which the best pathologists consider local in its origin, the removal of the tumor does not always prevent constitutional infection or even a local recurrence. He would not and potash, for they might have a tonic effect.

stated it, as a matter of fact, the boy was put under wire in position until it could be tightened. In using constitutional treatment as soon as he came to the it a catheter is passed through the nose, the end being clinic. He took mercury and potash thrice daily for drawn out through the mouth. Through this are a long time. After the doctor had exhausted all the passed both ends of a wire about three feet long, resources of pathology and therapeutics, he was which are brought out at the nostril. The applicator driven to believe that the boy was suffering from is then attached to the loop, and the catheter and tubercular disease.

specimens:

LIVER OF STILL-BORN INFANT SHOWING TWO TUMORS;

a small one involving left margin, the other occupy- the applicator directly to the base of the growth in ing a large part of right lobe. These tumors were the vault of the pharynx, where it is held while an yellowish white and firm, presenting a marked con- assistant passes the ends of the wire, projecting from trast to the darker and softer normal structure. Spleen was enlarged. Blood effused under scalp and also over right cerebral hemisphere; this hemorrhage was probably the cause of death. Lungs airless; remaining viscera normal. Tumors of the liver in the newborn are of the greatest rarity. The tumors in this case suggested sarcoma, but the microscopical examination has not yet been completed. Had this child lived for several months, the period of their origin would have been doubtful-possibly would have been considered as post natal.

SMALL INTESTINE AND MESENTERY OF AN INFANT BORN AT EIGHT MONTHS, WHICH LIVED TWO DAYS.

There was double hare-lip and cleft palate, and it was said that the infant was unable to take any nourishment. The intestines were normal, but mesenteric glands markedly enlarged. The possible relation of this condition to tabes mesenterica is an interesting question. It does not seem possible in this case that the glands could have been infected from the intestine. The subject of disease in the fœtus and new-born infants is of such obvious value that it need not be enlarged upon. It is very desirable that the investigations now being made in this direction should be continued.

A PORTION OF LUNG FROM A MONKEY SHOWING TUBER-CULAR CAVITIES.

This was a young female, and the mate died of same disease about a week previously. It seems that not only do many monkeys in captivity die of this disease, but they die from a relatively small amount of disease.

DOUBLE PANOPHTHALMITIS FROM A KITTEN

or ten days duration. Killed with chloroform and eyes enucleated and placed in alcohol. There is a large exudation in the posterior chamber and opacity and staphyloma of the cornea.

## NEW INSTRUMENTS.

A POST-NASAL SNARE APPLICATOR. BY E. FLETCHER INGALS, M.D.

The post-nasal snare applicator, to which referobject to giving this patient small doses of mercury ence was made in The JOURNAL of December 5, was designed to facilitate the application of a wire loop Dr. Burnett said that although he had not before over tumors in the post-nasal space, and to retain the wires are drawn through the nose, the wire loop being Dr. D. S. Lamb then presented the following drawn back into the mouth. As the loop passes under the edge of the soft palate the blades of the applicator are opened, thus spreading out the loop over the tumor. The wire loop is then carried by



the nose, through the tube of a snare, which glides along the wires to the back part of the nares. The wires are then fixed to the snare, and by it the loop is drawn tight about the tumor. The sliding blades of the applicator are then loosened and the instrument disengaged by a slight movement. In the cut, B and D show the sliding blades which retain the wire C in the notches at D. A, is a cam, which tightens the sliding blades over the notch at D, and which, when turned sideways, allows the blades to be drawn back by the thumb pieces at B, thus releasing the wire at the notches D.

The instrument works perfectly, and fully accomplishes the object for which it was designed. It is especially useful when the tumor is large; a condition which sometimes makes it extremely difficult to apply the wire

For small tumors it is not so essential, but it will be found to greatly facilitate the operation, and to relieve the patient of most of the discomfort incident to the introduc-

tion of the fingers behind the palate. 64 State St., Chicago, Dec. 12, 1885.

# DOMESTIC CORRESPONDENCE

MALARIAL FEVER AND YELLOW FEVER.

Dear Sir: In The Journal of December 5 is about a month old at death. The disease of a week an article by Dr. de Mello, of Rio de Janeiro, which is designed to show the identity of yellow fever and acute malaria, and which coincides with the ideas I have always entertained in reference to that subject I was practicing medicine, from 1839 to 1846, in

clusive, at the Grand Rapids of the Maumee, in ever that may be, whether it be a microbe or not. Ohio, nearly all of which I saw, the Maumee Valley —though it is true that causes, apparently utterly got a reputation (and founded on fact) for being one unlike, will produce effects perfectly identical. For got a reputation (and founded on fact) for being one limitse, will produce cheects period the meters period of the most malarious districts in any Northern State, instance, I dely anybody to tell the difference bealmost vicing with New Orleans. A ghastly joke I tween the pustules of variodoid and those produced recollect about Toledo: A man inquired the way to by tartar emetic. And, by the way, I have always Monroe, was told to take the most travelled road, believed that pustules produced by tartar emetic may summer they were obliged to suspend the work on virus; but, for obvious reasons, I cannot prove it. account of sickness—mostly cases of malarial fever. Whenever there is an epidemic of yellow fever in a skin the color of a ripe pumpkin.

then known how to treat such cases as well as we identity will be shown-till then, I shall think that now do. That is to say, we did not know enough to Dr. Mello's theory is the most important contribution give quinine in sufficient quantity. At that time, on this subject in recent times. the usual treatment was mercurials (principally calomel), tartar emetic, drastic cathartics, and a minimum quantity of quinine—and this must not be taken till the fever had subsided. Not often was more than gr. ij given in one dose—generally gr. x in six doses. It is about forty-five years since I repudiated the absurd notion of waiting for the fever to intermit To the Editor of the Journal: before quinine could be safely administered. I got a pointer, as the boys say, in the practice of a soi- what interesting to the readers of The Journal. disant Dr. Sappington (a suggestive name), of Mis-

quinine with ext. liquorice.

fever? This much, I may say, that I have always wound was completely healed in two weeks, and no considered yellow fever as the gravest form of mala-physician had seen the case. About this time a small rial fever, simple ague being the mildest. During swelling appeared on the top of the foot, causing my residence in Grand Rapids from 1838 to 1846, I great sensitiveness, on account of which the top of saw many cases every summer of what we called the shoe had to be cut away. This was the only in-bilious-remittent fever, with intense jaundice, and convenience that the patient suffered, except that other symptoms approaching to yellow fever, and in when he had been on his foot all day it became tired the summer (August) of 1840 I had what might be and somewhat painful. He could walk and run withcalled a typical case of yellow fever. The subject out difficulty or limping, and for five months the right was a laborer on the canal, of middle age, German, foot was used as much as the other. who had never been where yellow fever prevailed. On November 12, the sensitive spot on the top of

Ohio. During the first three or four years of my It followed the "excavations," as Dr. Mello said it residence there the Wabash and Erie Canal was did in Rio de Janeiro. It might be said that I was being made. The termini were the Maumee bay in mistaken in the diagnosis, as I had not then seen a Ohio, and Evansville in the southwestern corner of case—but I did afterwards, in New Orleans in 1869, Indiana, making it one of the longest canals in the and I know that that man had all the characteristic world. I am not certain whether a boat ever went symptoms of yellow fever, and it would not alter the through the whole length of this canal. The Indiana case, any more than to call a case of small-pox ecpart of this canal was abandoned a few years ago, zema or some other name. It would probably take and that portion from Terre Haute to Evansville was the same cause, essentially, to produce a given effect never used. While they were digging the canal in in the Maumee Valley that it does in New Orleans and was brought up at the graveyard. Indeed, one be as good a preventive of small-pox as the vaccine

-and many of the pernicious kind. Probably it was New Orleans, especially at the commencement, there not so bad as the Panama railway, where, it is said, is generally some dispute among the doctors, as to every tie represents a death, but it was bad enough, whether the fevers are yellow, or cases of grave bilious as I personally knew after I had been in the country fever, a nice distinction, without a difference except two months. In my own case, a few of the results in degree, I think. I believe, however, they call were a spleen about as big as my head, anasarca, and these milder cases malarial, to contra-distinguish them. If the microscopic yellow fever germ should These sequile might not have been so bad, had we be discovered, if it has not yet been, I believe the

B. S. WOODWORTH, M.D. Fort Wayne, Indiana, Dec. 12, 1885.

#### PASSAGE OF A LARGE PIECE OF GLASS THROUGH THE FOOT, AFTER FIVE MONTHS.

Dear Sir:- The following case may prove some-

William L. D., aged 17 years, while swimming on souri, whose pills nearly always cured malarial fever. July 2, 1885, cut a deep gash in his right foot on and they were to be taken during the fever. After some sharp object in the water. The wound was this doctor had made a fortune from the sale of his about the centre of the plantar surface of the foot, pills, he disclosed the formula, which was nothing but from side to side, and about an inch and a half from the base of the toes. There was considerable hæmor-But what has all I have said to do with yellow rhage, which was arrested by a companion. The

He had all the characteristic pathognomonic symp- the foot was accidentally struck, causing great pain toms of yellow fever, including black vomit. He and rupture of the skin, giving exit to some blood died after an illness of three or four days. Although and pus. I was called in on the evening of November I did not call this case yellow fever, I never doubted 13. Near the surface of the small open wound I that it was, nor that the cause was there in that canal, found the point of a hard foreign substance, which on He was, doubtless, saturated with the poison, what- probing was found to be of considerable size, and

cansed such pain that it was necessary to administer value of the book. chloroform. The opening, which corresponded with the space between the second and third metatarsal bones, was enlarged, and with a pair of dressing forceps considerable force was required to dislodge the foreign body, which proved to be a triangular piece of glass, measuring three quarters of an inch on every side, and one-eighth of an inch in thickness. It is evident that this piece of glass had been in the ering rapidly.

There are two things that seem quite remarkable to me in this case: 1. That a foreign body of this character could pass entirely through the foot between the metatarsal bones without causing more interference to locomotion. 2. That such a substance could remain in an organ so much used as the foot, without exciting more inflammation and suppuration. J. E. Allaben, M.D.

Rockford, Ill., Nov. 17, 1885.

## BOOK REVIEWS.

Post-Mortem Examinations, with Especial Ref-ERENCE TO MEDICO-LEGAL PRACTICE. By Pro-FESSOR RUDOLPH VIRCHOW. Translated by T. P. SMITH, M.D., M.R.C.S., England. From the fourth German Edition. 8vo, pp. 138. Philadelphia: P. Blakiston, Son & Co. 1885. W. T. Keener.

This small book, as is to be expected from the name of its author, is worthy of careful study. The first portion describes somewhat the history of the methods of making post-mortem examinations as it has been adopted by Virchow. When he became Prætor at the Charité he found that the autopsies were made without method and by many persons who were incompetent. He defined a method, which since then he has improved, and instituted a thorough system in the making of all examinations. Too much cannot be said in this country upon this subject of pursuing a system in the making of autopsies. Few physicians have had instruction in the subject, and when they attempt an autopsy they make bungling work of it. If they knew how, many more private autopsies would be made, for it need not be an unpleasant task, and it need not take long. In hospitals the autopsies too often are made by students or internes without oversight or guidance. As a result, very much valuable material is lost and wasted. All physicians and students should study some such book as this, unless they have had the advantage of practical instruction.

The remainder of the book is taken up with comments upon and fuller explanations of the rules or "regulations for the guidance of medical jurists in described as they were made by Virchow. These Lexington, Ky. are given both to illustrate the methods of operating and of describing what is seen at the autopsy. The Chairman, S. C. Gordon, M.D., Portland, Maine:

deeply imbedded in the foot. Attempts at removal description of these cases adds very much to the

A TREATISE ON PRACTICAL CHEMISTRY AND QUALI-TATIVE INORGANIC ANALYSIS. By FRANK CLOWES, D. Sc., Lond. From the fourth English Edition. 8vo, pp. 376. Illustrated. Philadelphia: Lea Brothers & Co. 1885. Chicago: Jansen, Mc-Clurg & Co.

The present edition of this well-known and extenfoot for more than five months, and had passed com-pletely through the member. The boy is now recover issues in slight additions and rearrangements throughout the entire volume. The most important of these is the insertion of a section on the analysis of some of the more common organic substances. In the introductory chapter there has been a rearrangement, with amplification and the addition of new illustrations for the purpose of rendering the author's instruction more intelligible to the beginner, thus supplementing the work of the teacher or laboratory assistant.

> A TEXT-BOOK OF MEDICAL CHEMISTRY. For Medical and Pharmaceutical Students and Practitioners. By Elias H. Bartley, M.D., Chief Chemist to the New York State Dairy Commission; Inspector New York State Board of Health, etc. Forty Illustrations. 8vo, pp. viii, 376. Philadelphia: P. Blakiston, Son & Co. 1885. Chicago: W. T. Keener.

It is with pleasure that we notice what is probably Chicago: the best Chemistry for medical students-for its size -now in the market. Prof. Bartley has written the book because he had something to say; and he has said it well. We could wish, however, that under "Ptomaines," some of the methods for searching for these substances had been given in detail. Excellent features are a glossary of unusual chemical terms, an appendix giving the analyses of the various fluids of the body, a thoroughly good section on incompatibilities, and a table of solubilities.

#### ASSOCIATION ITEMS.

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Section of Practice of Medicine, Materia Medica conducting post-mortems," which are given in full at and Physiology—Chairman, J. T. Whittaker, M.D., the end of the little volume. Several cases are fully (Cincinnati, Ohio; Secretary, B. L. Coleman, M.D.,

Section of Obstetrics and Diseases of Women-

olas Senn, M.D., Milwaukee, Wis.; Secretary, H. Street, Chicago, and not to the Treasurer; but all H. Mudd, M.D., St. Louis, Mo.

Section of State Medicine and Hygiene-Chairman, John H. Rauch, M.D., Springfield, Ill.; Secre-

tary, F. E. Daniel, M.D., Austin, Texas.

Section of Ophthalmology, Otology and Laryn- family or other representatives are requested to ingology—Chairman, Eugene Smith, M.D., Detroit, form the Treasurer at once of the fact. Mich.; Secretary, J. F. Fulton, M.D., St. Paul, Minn.

Section of Diseases of Children-Chairman, W.

John S. Marshall, M.D., Chicago, Ill.; Secretary, E. A. Baldwin, M.D., Chicago, Ill.

Tuesday in May, 1886, in St. Louis, Mo.

Chairman of the Committee of Arrangements-LeGrand Atwood, M.D., St. Louis, Mo.

Assistant Secretary-Wm. C. Glasgow, M.D., St. Louis, Mo.

#### INFORMATION OF IMPORTANCE TO ALL MEMBERS OF THE AMERICAN MEDI-CAL ASSOCIATION.

MEMBERSHIP.—Every one who attends an annual meeting of the Association as a delegate pays at that time five dollars, and thenceforward becomes a Permanent Member. He continues as such as long as he remains in good standing in the body from which he was originally sent as a delegate. As a Permanent Member, he must pay Five Dollars Annually, when notified by the Treasurer, whether he attends the meetings of the Association or not. Payment of annual dues entitles him to receive the weekly JOURNAL of the Association for one year.

MEMBERS BY APPLICATION are such as have not become Permanent Members in the manner above tion. He was known throughout his State as one of indicated, but apply to the Trea urer for membership, its best and most conservative practitioners. forwarding at the same time to him five dollars and the certificate of the President and Secretary of their State or local society, that they are in good standing in such society. They pay five dollars annually thereafter, when notified by the Treasurer. Members by application can join the Association at any time, and they receive regularly the weekly JOURNAL.

WHEN DUES ARE PAVABLE.—The annual dues from Permanent Members are payable to the Treasurer at the time of the annual meeting of the Association, or immediately thereafter. The payment entitles the member to receive the JOURNAL for one year from the following July. Payment for 1885, for

As some of the members have not yet forwarded to the Treasurer their dues for 1885, they are urgently requested to do so at an early day. Having entered upon another year of membership, they are morally and legally responsible to the Association for the payment of their annual dues, having already received for three months of the new year-1885-the Jour-NAL of the Association.

SUBSCRIPTIONS TO THE JOURNAL, from those who

Secretary, Chas. T. Paine, M.D., Comanche, Texas. are not members of the Association, should be for-Section of Surgery and Anatomy—Chairman, Nich- warded to the office of publication, 65 Randolph payments of annual dues must be forwarded to the Treasurer, Lock Box 1274, Philadelphia.

Deaths.—When a member of the Association, who is in regular receipt of the JOURNAL, dies, his

PAYMENT OF DUES FOR PREVIOUS YEARS.—As a few members of the Association are still in arrears D. Haggard, M.D., Nashville, Tenn; Secretary, W. for payment of dues for 1883 and 1884, they are B. Lawrence, M. D., Batesville, Ark. requested to forward at once to the Treasurer Section of Oral and Dental Surgery-Chairman, the amounts for which they are indebted to the Association.

Transactions of the Association.—These an-Time and place of Annual Meeting-On the first nual volumes, thirty-three in number, to 1882 inclusive, may still be obtained, with few exceptions, from the Treasurer, at reduced prices. The Index to these volumes will be forwarded on receipt of One Dollar. An opportunity is thus afforded to complete sets of these valuable publications, or to obtain important papers and works which are daily becoming scarce.

> RICHARD J. DUNGLISON, M.D., Treasurer. Lock Box 1274, Philadelphia, Pa.

#### MISCELLANEOUS.

DR. W. A. EAST, of Hallettsville, Texas, died Dec. 10, 1885, of pleuro-pneumonia. Dr. East was born in Nashville, Tenn., Dec. 9, 1824. He read medicine with Dr. Thomas R. Jennings, of that city, and attended lectures in Philadelphia during 1845-46. He was for several years Professor of Theory and Practice of Medicine in the Galveston Medical College, and was a member of the American Medical Association, and the Texas State Medical Associa-

Dr. Albert H. Smith, one of the best known physicians of Philadelphia, and one most beloved by professional friends and his patients, died at his home in that city, on December 14, after a long period of painful illness. He was in his fifty-first year.

NEW YORK STATE MEDICAL ASSOCIATION, FIFTH DISTRICT BRANCH.—The third special meeting of the Fifth District Branch will be held in Yonkers, on Tuesday March 23, 1886. E. H. SQUIBB, M.D.,

Secretary.

example, entitles the member to the Journal from July, 1885, to June, 1886, inclusive.

As some of the members have not yet forwarded

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT. U. S. ARMY, FROM DECEMBER 18, 1885, TO DECEMBER 24, 1885.

Fryer, B. E., Major and Surgeon, sick leave of absence extended six months on surgeon's certificate of disability. (S. O. 292,

G. O., Dec. 21, 1885.)

Vickery, R. S., Major and Surgeon, relieved from duty in Dept. of the Columbia, to repair to Washington, D. C., and report in person to Surgeon-General for duty in connection with Army and Navy Hospital, Hot Springs, Ark. (S. O. 293, A. G. O., Dec. 22, 1885.) Reed, W., Capt. and Asst. Surgeon, leave extended one month.

(S. O. 293, A. G. O., Dec. 22, 1885.)

# ournal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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## ORIGINAL ARTICLES.

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In the popular mind, the name Bright's disease, at of the subject of this paper. the present time, has a prophetic import not unlike It is regarded as a hopelessly fatal malady; more hopeless indeed than the condition of one condemned to execution, inasmuch as in the latter case there may This view of the prognosis is not far from the truth. tinues in a chronic form. The points bearing on the experience. But the scope of prognosis is not limited referred to in connection with chronic Bright's disease. to recovery from a disease. A disease may involve There are cases of Bright's disease in which the more or less irremediable damage of important organs, disease cannot with propriety be said to be acute, but after having advanced to a certain extent the inasmuch as there are new symptoms denoting acutedamage may not become greater, and the portions ness of inflammation, but in other respects correof the organs which remain unaffected may be suffici-sponding to the acute form. The disease in these ent for all the purposes of life and a fair state of cases is of temporary duration, and ends in recovery, health. Or, again, a disease may be progressive, no evidence of renal lesion remaining. These are but the progress may be so slow as not to interfere cases which, as it seems to me, have not received with a long duration of life and a certain degree of sufficient attention by medical writers. health. A chronic disease may persist, and remainper se, but danger may be dependent on associated connection with the antecedent disease. Or, still again, a chronic disease may be well tolerated inhealth are favorable, but proving fatal if other conditions, which we may call accessory, be unfavorable. These are considerations embraced properly within the scope of prognosis, using this term in its comprehensive sense. In this paper I propose to offer some remarks on the elements of prognosis in Bright's disease, taking into view not alone the intrinsic tendency of the disease, but the considerations just referred to.

To be able to foresee the progress and issue of diseases in individual cases, is something more than an interesting professional accomplishment. It is of im-ELEMENTS OF PROGNOSIS IN BRIGHT'S DISEASE, portance as regards the regulation of the private affairs of patients and their friends. Of still greater importance is the bearing, often, of prognosis on the treatment of diseases. I shall have occasion to refer to some points pertaining to the last named aspect

The prognosis in Bright's disease has relation to that of a verdict of conviction after a trial for life. the form or variety of the disease. Is the disease acute or chronic? This question is not always readily answered at the bedside; but I do not propose in this paper to enter into the subject of diagnosis. Asbe the prospect of a new trial or a hope for pardon. suming the existence of acute Bright's disease, ex-This prevailing impression, like other popular imperience teaches that, exclusive of important conpressions relating to disease, reflects the views of the comitant affections, the disease does not end fatally medical profession. By the latter, Bright's disease, as a rule, and, moreover, as a rule it does not evenin its chronic form, is generally regarded as a disease tuate in any renal lesion, in other words, the acute is from which recovery is not to be expected, a fatal not followed by a chronic form of the disease. Extermination taking place invariably sooner or later, ceptionally the acute disease proves fatal, or it con-It may be said, perhaps, to be a view which accords prognosis in individual cases, are essentially the same with our present pathological knowledge and clinical in the acute and the chronic forms. These will be

The several designations of acute Bright's disease, ing stationary, life is not endangered by the disease namely, acute diffuse nephritis, acute tubal nephritis, acute desquamative nephritis, etc., may be applied affections which may, or may not, have a pathological to these cases by substituting for the word acute, subacute as distinguished from chronic. The clinical history is the same as in the acute disease, except definitely provided other conditions pertaining to that the symptoms denote a sub-acute inflammation, and, anatomically, the disease in these cases differsfrom the severe forms of chronic Bright's disease in the fact that there is no persistent renal lesion.

In a certain proportion of the cases in which acute Bright's disease is said to accompany or follow scarlet fever and other infectious diseases, the inflammation is sub-acute. Occurring in other pathological connections, or when it is a primary affection, if unat-tended by ædema of the face or limbs, it is likely to be overlooked by those who do not observe the rule

<sup>&</sup>lt;sup>1</sup>Read before the New York County Medical Association, November 16th, 1885.

to examine the urine in all cases, whether or not the symptoms point to renal disease. If ascertained, Bright's disease for an indefinite period. Mark the

namely, whether the existing symptoms such as coma mand without more or less distress. and convulsions, dropsy, etc., are, to a greater or less. A patient comes to a physician complaining of state of health which previously existed.

iferous tubes to causes of inflammation.

with chronic Bright's disease.

of disease. Second, the important organs of the the urine shows Bright's disease which must have exbody other than the kidneys must be capable of peristed for a greater or less period. Instances of this forming satisfactorily their respective functions. The kind have come under my observation. functions of the digestive, the circulatory, the respir- These facts teach that so long as the kidneys are atory and the nervous system must be fairly main-not damaged sufficiently to render them incompetent alimentation, exercise, exposure to cold, mental ex- the accessory conditions which have been referred to citement, and habits of life, must be observed. Now are favorable, Bright's disease is well tolerated; that suppose, these, as we will call them, accessory con- is, the disease is latent as regards any appreciable ditions to be fulfilled, and a lesion of the kidneys to manifestations irrespective of an examination of the half, and the disease not to be progressive, life and ence of the disease be known, the objects of treat-

the problem in diagnosis and prognosis is to determine practical conclusions to which this view of the progwhether the affection be a sub-acute diffuse, or tubu- nosis leads. In order that a chronic Bright's disease Iar or desquamative nephritis, or whether it be a shall be well tolerated, provided the lesion has not chronic form of Bright's disease? This problem is reduced the ability of the kidneys to perform adnot at once easily solved. It can only be definitively equately their functions, the objects of treatment resolved by the disappearance of all the evidences of late to the accessory conditions required for toleration renal disease after some weeks, and the recovery -to wit, the conditions relating to other organs of the body, and to hygiene. We may assume the neces-A diffuse tubular or desquamative nephritis, either sity for these conditions, inasmuch as the utmost limit acute or sub-acute, not infrequently occurs as an intercurrent event in connection with chronic Bright's stantly required, any disturbances elsewhere in the disease. The latter affection, prior to the occurrence economy will be likely to involve overtasking of these of the intercurrent nephritis, may have been latent, organs. The situation may be compared to that of as regards symptoms other than those pertaining to pulmonary emphysema leaving no reserved capacity the urine, and it may again become latent after re- of the lungs. Respiration is adequately performed covery from the intercurrent inflammation. Here is if there be no unusual demand upon this function; a problem which cannot at once be definitely solved, but the pulmonary organs cannot meet any extra de-

extent, referable to the progress of these chronic some one of the minor manifestations of uraemia, affections, or whether they denote an intercurrent such as headache, nausea in the morning, misty vision, acute or sub-acute inflammation. The bearing of or of a little cedema of the face and limbs, either this problem on the prognosis is obvious. The oc- with or without uraemic symptoms; or it may be that currence of an intercurrent nephritis in certain cases he complains only of impaired appetite and general explains the development of grave symptoms from debility. An examination of the urine shows the which recovery takes place, leaving the patient in the existence of chronic Bright's disease. Now chronic Bright's disease has probably existed in this case for A practical point, relating to prognosis after months and perhaps for years. During this period recovery from either acute or sub-acute diffuse neph- the damage to the kidneys has not been sufficient to ritis, is the existence of a susceptibility of the urin- render the organs incapable of performing their func-This tions adequately. They who are in the habit of exsusceptibility remains after recovery, rendering the amining the urine in all cases which come under their patient liable to recurrences of the affection. This observation, not infrequently find the evidence of holds true whether the nephritis be a primary renal chronic Bright's disease when no symptoms pointed affection, or whether it be developed in connection thereto. It may be many months or many years in these cases before the manifestations of the disease I proceed to notice some of the elements of prog- appear. I could cite cases illustrative of the latter nosis in cases of chronic Bright's disease. The latency statement. At length, the progress of the renal affec-in certain cases of Bright's disease for a long period, tion, or unfavorable accessory conditions, render the as regards any important symptoms exclusive of evi- kidneys incapable of performing their functions adedences afforded by examinations of the urine, is a quately, and then appear symptoms which point to most important clinical fact. What are the condi- an affection of these organs. Hypertrophy of the tions requisite for latency? First, the kidneys must heart without valvular lesions, and irrespective of not be damaged beyond a certain extent. Nature pulmonary disease, is generally a result of a renal has been bountiful in these as in other organs. In- affection which must have existed for a considerable asmuch as it has been demonstrated that one kidney period. Now it is not uncommon to find cardiac may suffice for the adequate performance of the renal hypertrophy when there has been nothing to create functions, it follows that a lesion may have impaired suspicion of an affection of the kidneys. Again, a the functional power of the organs at least one half, person is seized with apoplectic coma and convulsions without necessarily giving rise to important symptoms when apparently in good health. An examination of

Third, the laws of health, relating to to perform their functions adequately, and so long as exist which diminishes their functional ability one- urine. The facts teach, moreover, that if the existis obvious.

important inquiry is, are they doing what healthy for the second examination had been passed in organs ought to do? The kidneys may eliminate in twenty-four hours and amounted to eighty-six ounces. abundance excrementitious products although albumen and casts are present abundantly in the urine, case? There was not renal inadequacy. Diuretics wanting.

density, in cases of Bright's disease, is a culpable period. neglect. An apology may seem to be required for Is the degree of renal inadequacy, as determined saying that the quantity of urine may be much ingreat danger from urremic toxicmia; yet I can recall must be answered in the negative. In some cases of a case in which, under such circumstances, a practi- Bright's disease the quantity of excrementitious prinof urinary secretion!

quences. The object of treatment is to avert these mulation in the blood takes place without toxical

ment are to prevent, if possible, further increase of by measures either to increase the excretory action the renal damage, and to make all the accessory of the kidneys or to promote the vicarious elimination conditions as favorable as possible. The prognosis of the urinary constituents, and perhaps, also, to renis favorable in just so far as these objects of treat- der the system tolerant of the over-accumulation in ment are attainable. With reference to these objects the blood of these constituents. The last of these the desirability of as early a diagnosis as possible three indications I have been led to believe may be in a measure fulfilled by opium; but the discussion The question now arises, how is the adequacy of of this point would be here out of place. Let it be the functions of the renal organs to be ascertained, supposed that notwithstanding the evidences of irrespective of any obvious symptoms which are sug- Bright's disease examinations of the urine afford gestive of inadequacy? The answer to this question, proof of renal adequacy, what bearing has this fact of course, relates to examinations of the urine. Is on the treatment? The indication for diuretics, it an injustice to medical practitioners to say that exhibydragogues and sudorifics is certainly wanting under aminations of the urine often have regard only to the these circumstances. I submit the inquiry whether inquiry as to the existence of Bright's disease, and to it be not an error in practice too often committed the form of the disease which exists, overlooking the to employ diuretics, hydragogues and sudorifics in importance of ascertaining the sufficiency of excre- cases of Bright's disease when these are not indimentitious elimination? The latter is the important cated? And, if not indicated, inasmuch as they are object of the examinations with reference to progno- more or less perturbatory and debilitating in their sis. Are not examinations often limited to specimens effects, they are, of course, contra-indicated. I will consisting of a few ounces of urine, the quantity cite for illustration a case which has come under my passed in a given time being imperfectly known, and, observation since I began to write this paper: A perhaps, not made an object of inquiry? The man about 50 years of age, of good habits, but for a amount of albumen excreted and the number and long period overworked by his duties as a banker, variety of tube-casts are important with reference to for the last year or longer had felt a lack of his usual the existence and the form of Bright's disease, but it energy and endurance. In other respects he had no is generally of much more importance to obtain in-special ailments. There were no symptoms pointing formation respecting the adequacy of the renal func- to uramia. He had noticed an increased quantity tions. I have frequently been struck with the fact of urine. Two examinations of the urine showed a that in examinations of the urine the specific gravity specific gravity of 1003 and 1008, and albumen small has not been taken into account. Albumen and in quantity in the first, but considerable in the second casts in the urine show that the kidneys are doing examination. Casts were not discovered at either of what healthy organs ought not to do; but the more these examinations. The quantity of urine furnished

and, per contra, the elimination of these products were certainly not indicated. It was probably an obmay be more or less inadequate, although the urine ject in the treatment to relieve the kidneys in a measmay contain little or no albumen, and casts are ure of the burthen of their functions by providing for some elimination by the intestinal canal and the skin, Inattention to the adequacy of the renal functions but employing for this object measures which are must be attributable to a lack of appreciation of the neither perturbatory nor debilitating. The great obimportance of this point of inquiry, inasmuch as in- jects in the treatment were, evidently, prevention of formation respecting this point is readily obtained, further progress of the renal affection and promotion It suffices generally to ascertain the amount of urine of tolerance. I presume that it will be admitted we passed in twenty-four hours, and to employ the urin-bave no knowledge of any special remedies for the ometer. The quantity and the specific gravity are first of these two objects. The treatment, therefore, data for a rough estimate of the excrementitious must have reference to accessory conditions and to products, but, practically, the estimate is near enough hygiene. As regards the prognosis in such a case, it to accuracy. It is certainly not too strong an asser- relates to non-progression of the renal affection and tion that to be satisfied with the information that the to tolerance. Under favorable circumstances, life quantity of urine is normal, without knowledge of its and a fair amount of health may continue for a long

creased, but with a specific gravity so low as to involve the absence of danger from uramia? This question tioner had assiduously striven to lessen the amount ciples in the urine are notably diminished for a long period without the development of serious uraemic The prognosis based on renal inadequacy relates, consequences. The explanation is, that these prinof course, to the liability to grave unemic conse-ciples may be vicariously eliminated, or their accueffects because the system becomes accommodated of chronic Bright's disease, is to be recognized as an to them, as opium or arsenic may be introduced in individual peculiarity.

large quantities innocuously as a result of their habitual use. On the other hand, in some cases a moderate affection for an indefinite period, provided the dan-

with reference to prognosis. The prognosis in cases of uræmic coma incident cessory conditions are favorable. to chronic Bright's disease is always grave. Yet, every practitioner of much experience has met with has relation chiefly to the amount of excrementitious instances in which the attacks have been severe, elimination of these organs, and this amount may be prolonged and repeatedly recurrent, without proving fatal. This fact shows conclusively that in these instances something is added to the chronic renal given time. If there be not inadequacy, the treataffection. This something may be an intercurrent ment by diuretics, hydragogues and sudorifics is not inflammation, acute or sub-acute, to which I have only uncalled for but hurtful. referred in the first part of this paper, or it may be 7. The danger from the accumulations of the conas furnishing a powerful motive for the employment the efficiency of vicarious elimination and in the tolof efficient measures to avert impending danger. Of erance from habit of these constituents. instance among the cases which have come under my observation, in which this symptom has not been the fatal prognostic. precursor of a fatal termination. I have known, however, life with fair health to continue for years after an attack of acute pulmonary cedema incident SOME CAUSES OF TARDY FIRST STAGE OF LABOR, to chronic Bright's disease, and apparently for a time placing life in imminent danger.

In this brief paper I have introduced topics which might readily have led to a much more extended consideration than I have given to them. My purpose has been, not to consider these topics as fully as their importance claims, but to offer them for discussion by those present at this meeting. In order to allow time for their discussion, I have designedly limited the length of my paper. In conclusion, I attention of those who are to engage in the discussion.

1. Acute Bright's disease, as a rule, does not tend to a fatal result, nor to eventuate in a chronic affection.

2. A sub-acute diffuse nephritis having the same seat and character as acute Bright's disease, exclusive of acuteness, occurs not only after scarlet fever and other infectious diseases, but irrespective of these. Occurring in other pathological connections, or as a primary affection, it is liable to be overlooked, and, if recognized, it is liable to be mistaken for a chronic form of Bright's disease.

3. Acute Bright's disease or a sub-acute diffuse nephritis not infrequently occurs as an intercurrent

affection in the course of Bright's disease.

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4. A susceptibility to the causes of inflammation of the uriniferous tubes, irrespective of the existence

diminution of the excrementitious principles of the ger to the kidneys is no more than an equivalent to urine is followed by serious uræmic consequences, the loss of one of these organs, and provided the their vicarious elimination being inadequate, and tol-functions of the other organs of the body are well eration not having been acquired by habit. These performed, and provided the laws of health are obfacts are to be taken into account, in individual cases, served. The disease may be well tolerated so long as the renal affection does not progress, and the ac-

6. The adequacy of the functions of the kidneys

referable to what I have termed the accessory condistituents of the urine in the blood is not in all cases tions involved in the toleration of the renal affection, determinable with accuracy by ascertaining the The fact, it is needless to say, is of much importance amount of renal inadequacy, owing to variations in

acute pulmonary œdema the same may be said as of uraemic coma. In my experience, thus far, of the Bright's disease, may be incident to an intercurrent 8. Uræmic coma, occurring in cases of chronic grave manifestations of uraemia, the greatest is dysp-temporary nephritic inflammation or to accessory nea, called by some writers "renal asthma," which conditions, so that if impending danger can be is independent of any pulmonary affection, and ataverted, restoration to the state of health which extributable to a toxical effect upon the respiratory isted prior to its occurrence may be hoped for. This centre in the nervous system. I cannot recall an statement applies also to acute pulmonary cedema.

9. Renal asthma is generally, if not invariably, a

# AND THEIR TREATMENT.

BY ELLIOTT RICHARDSON, M.D.,

OF PHILADELPHIA.

The following cases have been of interest to me, and I trust will be so to others. Most of them represent instances of certain forms of dystocia, which are neither new or very rare, and the treatment of which is often a matter of censure to the accoucher.

Case 1.—Mrs. M., æt. 28, born in England, a very will recapitulate the points to which is invited the light blonde of more than medium height, and apparently well formed, was taken in labor with her first child early in the morning of February 18th, 1883. Her previous history was uneventful in a clinical point of view, no evidence having been elicited of any protracted or violent illness, or of hereditary taint of any kind. The pains were not at first severe, but became more so as the labor advanced. saw her in the evening of the 18th, when I found the os dilated to about the size of a quarter of a dollar, thin, but soft, and not sensitive to the touch. During the pains the bag of water, which was very small, seemed to press but lightly through the os. Through the membranes the presenting head was felt in an attitude of semi-extension, with the anterior fontanel.

<sup>&</sup>lt;sup>1</sup>Read before the Philadelphia Obstetrical Society, on Dec. 3, 1885.

either during a pain or its absence. time remained good, and gave no occasion for anx- first time, saw the case with me. iety or alarm. On the morning of the 21st, the Case 2 .- On March 25th, 1885, I saw, in consultathe uterus as effectually as ever.

strait. The latter course was chosen, and in order labor. to carry out the treatment a sixth of a grain of sulhours, by the use of constitutional means alone.

quently taken with care showed the following dimensions:

Between	ant, sup. sp. processe	S	85% inches.
	crests		
Externat	conjugate		613 "
Real con	ugate by inference		31/3 "

occupying nearly the centre of the field. The occiput of a rachitic pelvis, and as all the measurements were was directed toward left acetabulum. The presenting somewhat below the normal, the small pelvis was head was held at the superior strait, and did not adprobably one of those in which the sexual developvance during a pain, but it so closely fitted the lower ment of the pelvis was imperfect, that is, arrested in segment of the uterus as to completely separate the its progress. The attitude of partial extension obamniotic cavity above from that below, and prevent served in the foetal head in the case just given is any addition being made to the small amount of explained by the fact that the extremities of the narliquor amnii contained in the bag of waters. Nor rowed conjugate diameter formed the points of redid the head show any disposition to become flexed sistence to the descent of the head, and as these would naturally offer much more obstruction to the Labor continued with moderate pains during the descent of the greater diameters near the occipital 10th and 20th, with but little effect upon the os so extremity than to the narrower ones near the face, far as could be perceived by the touch, although it the latter extremity would of necessity descend first. was evident that a very slow dilatation was being In the last day of the labor I had the benefit of the effected. The condition of the patient during this advice of Dr. Albert H. Smith, who then, for the

fourth day of labor, however, symptoms of exhaust- tion with Dr. Hampton, Mrs. M., in labor with her ion became apparent. The pulse ran up to over first child. She had been in labor for nearly twentytoo, and increased bodily heat was associated with a four hours without making any great apparent progtendency to dryness of the mucous surfaces. Still, ress. On examining I found the os dilated to about but little progress had been made in accomplishing the size of a half dollar, and presenting no abnormal the dilatation of the os, which was at this time opened conditions. The bag of waters was small and did to about the size of a half dollar. It was still impos- not seem to press with any force through the os dursible, without artificial dilatation, to attempt either ing the pains. The head presented in the second version or forceps delivery. The head had not adposition, and was held in a partially flexed attitude vanced and still plugged up the lower segment of at the superior strait. The patient was much alarmed at the slow progress she was making, so that the Two courses were open to me: One was to di- pains were becoming very rapid without materially late the os artificially and apply forceps or turn; the aiding in the advancement of the labor. The treatother was to support the patient's strength by securment adopted in this case was rest in bed, one-sixth ing to her needed rest, while at the same time pro- of a grain of morphia every four hours, and inhalamoting perfect relaxation of the soft parts, hoping tions of ether at the beginning of each pain. The that sufficient dilatation would, under this treatment, membranes were ruptured as soon as a greater soon enable me to rupture the membranes, when the amount of dilatation had been secured, and twelve head, being exposed to pressure from the uterine con- hours after I saw the case she was safely delivered tractions above it, would fairly engage, and, it was of a living child. No opportunity was afforded me hoped, descend through the os uteri and the superior to measure the pelvis after the termination of the

phate of morphine was given every four hours, while nature of the impediments to the progress of the the severity of the pains was still further mitigated labor being the same. In both the dilating wedge by inhalations of chloroform at the beginning of each usually afforded by the bag of waters was wanting, pain. Under this treatment the general condition because the closely fitting head prevented access of of the patient improved; she slept regularly between any considerable amount of liquor amnii to that part the pains, and in that way got much rest. By 10 of the amniotic cavity which was in advance of it, o'clock in the evening sufficient dilatation had been and the head itself did not advance because it was secured to justify me in rupturing the membranes, held at the brim of the pelvis by the narrow conjuwhen the head descended and soon the second stage gate. While in normal labor, before the membranes of labor was established. This terminated successary are ruptured, all parts of the feetus are exposed to a fully for both mother and child at about 11 o'clock like pressure, because that pressure is communicated that evening. Thus was the labor happily and suc- to it by the liquor amnii; when the head cannot adcessfully concluded after a duration of about ninety vance, and at the same time prevents any part of the liquor amnii descending past it into the bag of waters, The external measurements of the pelvis subset this equilibrium of pressure becomes destroyed, that part of the fœtus which lies above the line of con tact of the head with the uterine walls receiving the full force of the contractions of the uterine muscles, while that part which is below only receives the force of resistance offered by the cervix. Hence, when the latter is soft and dilatable a process of molding, The relation of the measurements of the distances or adaptation of the presenting part of the head, oc between crests and anterior superior spinous pro- curs, during which the most depending part gradually cesses precludes, almost to a certainty, the existence approaches the os and tends to dilate it by affording that dilating wedge which is absent at an earlier pe- the mouth; in one case inhalations of chloroform, ture is to relieve the head of all impediment to the so slight, that it is a question in my mind whether further progress of moulding and elongation. It is we are not often justified in using chloroform in now thrust downward, and if the pelvic narrowing is preference. not great will soon pass through the urine and into During the first stage of labor, if no painful oper-the os. The latter being exposed for the first time to ation is to be performed, it is not necessary nor even

its place.

riod of the labor. When the head, by this process, in the other of ether, were used in conjunction with approaches so close to the membrane closing the os the opiate. In view of recent experiment there can as to exert considerable pressure upon the latter, all be no doubt that ether is the safer remedy of the further moulding ceases, but at the same time dilata- two, and yet it possesses so many disadvantages tion of the os becomes more rapid, so that soon it when compared with chloroform, and the risk from will have progressed to a sufficient degree to justify the latter when carefully used in these cases and in rupture of the membranes. The effect of such rup- conjunction with the use of opium in some form is

the whole dilating power of the uterus, readily yields. desirable to produce entire unconsciousness. The The peculiarity of the first stage of the labor, anæsthetic is given to mitigate pain, not to entirely which in all its important bearings upon the welfare destroy the consciousness of it, and at the same of the woman and fœtus widely distinguish it from time to prevent both mental and uterine irritability. the second stage, is that so long as the membranes Opium and chloroform supplement each other to a are intact, the relations of the two beings to each great extent, so that when the effects of the two are other are precisely the same as those existing during combined a much smaller dose of each is required to the course of gestation, so that almost indefinite de-lay is perfectly consistent with the entire safety of This is not so with opium and ether, or to so slight both. Notwithstanding this fact the first stage of an extent as to be almost inappreciable. While in labor is often a period of great danger to both. The a woman in labor who is under the moderate influence danger to the mother is from exhaustion, and exceptionally from rupture of the uterus; that of the fœtus tered by inhalation is sufficient to give all the relief is from asphyxia, due to the too frequent or too pow- from pain needed. The quantity of ether to be used erful uterine contractions. The mother will only be- to produce the same beneficial effect will not be come exhausted when the pains become so frequent, found to be less than when no opium has been given. so violent, or so long-continued that she is not able. The practical result of this relation of the remedies to restore her strength from time to time by sleep to each other is that in the former case the patient's and perfect rest between the pains. The same con-suffering is relieved at once, while in the latter some dition with regard to the nature of the pains, early time is required before any decided amelioration is rupture of the membranes, and probably some ab-experienced. In support of the above assertions I normal state of the tissues of the uterus are essen- may be permitted to quote somewhat at length from tial to the production of rupture of that organ. The the able paper of J. C. Reeve, M.D., of Dayton O., risk to the feetus is due to the same condition of the which appeared in the American Journal of Medical uterine contractions as those which impair the mother's strength, in which the time intervening between of Dr. Kappeler's book on "Anæsthetics," Dr. Reeve the pains is not sufficient for the removal of the says: "The modification of the ordinary course of vitiated blood from the maternal part of the placen- anæsthesia by the preliminary injection of morphia tal circulation and the supply of arterial blood in deserves attention. . . . It is claimed for this 'mixed narcosis' that it is especially adapted to pro-In considering the relations of the woman and longed operations by rendering a far less quantity of feetus to each other, and the nature of the dangers chloroform necessary, the anæsthesia being continued which threaten each in the first stage of labor, the with far less frequent repetition of inhalation, that indications for treatment might seem to be obvious. the stage of excitement, both muscular and mental, They are to preserve the proper strength and rhythm is lessened, and that thereby the dangers of anæsof the uterine contractions in order to secure needed thesia are diminished. Mollow, one of its enthusirest to the mother, and sufficient regularity in the astic advocates, goes further, and claims that the acplacental circulation to supply the feetus with enough tion of the morphia lessens irritability of the air oxygen for its preservation. When, therefore, it is passages, and so restrains reflex action upon the obvious that from any cause the dilatation of the os heart; that in this respect its effect is similar to diviuteri must be a prolonged process, we should take sion of the par vagum; also that the morphia in care to protect both the woman and the feetus from small doses increases the blood pressure by its action danger during its progress. Even weak uterine con- on the motor ganglia of the heart and by its contraction may, by becoming nearly continuous, pro- traction of the peripheral vessels, thereby opposing duce the dangers already alluded to, and so while the chief deleterious influence of chloroform from the endeavoring to strengthen them, care must be used beginning by presenting an opposition which must to preserve their rhythm. In the cases which I have be overcome before the vascular pressure can sink reported this principle was adopted in treatment, below the normal." As to the smaller quantity of Nothing was done until the pains became abnormal chloroform necessary for a given length of anesthesia, in character, when the measures already detailed the less amount of muscular excitement and the modwere instituted. In both cases morphia was used by lifted mental condition, Dr. Kappeler says "the advantages have been on various sides clinically Case 3.—Mrs. M., æt. 38, sent for me in June, proved, and are only seldom called in question." 1878. I found her pregnant with her eighth child. jurious rather than beneficial."

quoted to the use of the agents mentioned in sur- could be felt. She was safely delivered of a living gery alone. They apply in the main to obstetrics as child. well, although I do not see any disadvantage in theory, nor have I in practice, in the ether-morphia nar-supposed, this is the longest period between the cosis as compared with ether narcosis alone. In rupture of the membranes and the coming on comparing the effects of chloroform and ether in the of labor I have met with personally, but the fol-first stage of labor, the former has, I believe, a de-cided advantage in its effects upon the os uteri, in ervation of the vitality of the feetus under these promoting relaxation. All the advantages above unfavorable circumstances for a much longer period: attached to it are at the same time coupled with its Dr. Matthews Duncan reports a case in the Lancet, easy and pleasant administration. Against these, for June 29, 1872, in which forty-five days elapsed however, must be offset the danger from its use. from the time of the rupture of the membranes to hands, cannot be told. In many cases of fatal chlo-this period the liquor amnii continued to escape as roform poisoning it has been the first few drops that it was secreted, and the size of the uterus as felt have killed; in such cases, therefore, the diminished through the abdominal walls was greatly diminished. amount rendered necessary by the morphia previous. When labor took place a seven months feetus was ly given would be no safegnard. I believe, however, born, and lived for several hours, although much dethat the danger is so infinitely small when thus given formed by the protracted pressure to which it had that we are justified in using it in painful cases of been exposed. In the Medical Times and Gazette, labor, especially when the chief difficulty lies in the for Sept. 18, 1852, Dr. John Gould reports a case in rigid condition of the cervix or other soft parts of which twins, a boy and girl, were born, living five the parturient canal, and that in such cases the use weeks after the water had come away. Although of morphia either by the month or hypodermically the above cases are well anthenticated, especially in moderate doses greatly facilitates accomplishment that of Dr. Duncan, in which the most careful obof the end in view. At the same time I would not servations were made, yet the asserted escape of the be understood as advising the use of chloroform in-liquor amnii must be always received with great caustead of ether in ordinary cases of painful labor, tion. The sources of the aqueous flow which may Since in these the only object is to relieve pain, ether be mistaken for the liquor amnii are numerous. The

formed by the membranes in normal cases, and by the source of the supposed liquor amnii. direct contact of the presenting part of the fœtus contract, the interruption of the supply of maternal case. blood to the placenta is much more complete; yet shown in the following cases:

The advantages claimed by this method have been She was in a state of great anxiety on account, as she denied by Demarquay, but confirmed by Heitel, and asserted, of the escape of the waters which she told in part by König. The latter does not, however, be- me had come away in large quantities. Examination lieve that the dangers from chloroform are at all did not convince me of the accuracy of her stateminished by the use of morphia. Dr. Reeve further ment, and I concluded she had mistaken the source stated that "none of the advantages of chloroform of the aqueous flow. One thing was certain, how-morphia narcosis attach to ether-morphia narcosis," ever, and that was that she was not then in labor, aland that Dr. Kappeler's "experience". . . seems though very near her time. She was enjoined to to show that in all respects the combination is in-keep quiet, though rest in bed was not insisted upon. Five days afterwards I was again sent for, and found Reference is made in the paragraphs which I have her in the first stage of labor, but no membranes

If the membranes really did rupture at the time Exactly how great this danger may be in careful that of the birth of the child. During the whole of answers the purpose, and being the safer remedy, spontaneous escape of urine is not infrequently mistaken by the patient for that of the liquor amnii, Another cause of tardy first stage of labor is pre- while the flow of profuse secretions of Cowper's mature rupture of the membranes. This accident is glands; the rupture of a cyst of the chorion; of anapt to interfere with the progress of labor in the stage other developed or undeveloped ovum; of a cyst of dilatation by the absence of the dilating cone lying between the chorion and the amnion, may prove

That the membranes may again close after having with the uterus. Owing to the former the uterine been ruptured has been proven. This is not accomforce is exerted at a disadvantage, and by the latter plished by a process of healing, as was at one time the os is apt to become rigid, dry and sensitive, while supposed, but by the sliding of the different layers, the mother's suffering is much increased. The feetus of which the membranes are composed, upon each is exposed to exceptional risk when obliged to pass other, by which a small opening may be effectually through the entire stage of dilatation of the os with-closed. After closure of the amnioric cavity in the out the protection of the liquor amnii, for not only manner described, the liquor amnii again collects, are its parts subjected to injurious pressure, but owing for this fluid is continually secreted, as first shown by to the much greater degree to which the uterus can Winkler, and demonstrated in Matthews Duncan's

A source of error in diagnosis as to the origin of it is possible for the feetus to retain perfect vitality for the flow is in rupture of the membranes at a point many days after the escape of the liquor amnii, as is within the borders of the os and out of reach of the examining finger. Here vaginal examination shows the presence of the membranes closing the os, and take a full dose of morphia. An hour or two later the supply of maternal blood to the placenta.

view the occurrence of rupture of the membranes at cident. the beginning of labor with anxiety and alarm, and tation of the os.

other cases there is more or less severe neuralgic given her. pain alone. When the previous history of the patient has been obtained, and such history shows the presence of the malarial poison, the diagnosis of the THE ÆSTHETIC APPLICATION OF DENTAL ART. true nature of the symptoms is not difficult, but it is so when no evidence of previous symptoms of intermittent fever is attainable. The following case is one of this character:

the first position. As the os dilated but slowly, and the first position. As the os dilated but slowly, and the patient's sufferings were severe, I ordered her to Boston, October 13, 1885.

which become tense during the pains, while the open- her symptoms were not satisfactory; her pulse was ing becomes patulous and admits of the escape of beating at the rate of more than 100; her mouth the liquor amnii during the periods of relaxation, showed a tendency to dryness, constant thirst exist-Notwithstanding the occasional occurrence of cases ed, and the patient frequently vomited bilious matsuch as I have just given, the usual result of the ester. Although the uterine contractions were very cape of the waters, at whatever period of gestation painful and frequent, they were short, weak, and init may occur, is to precipitate immediate labor, and efficient, when the patient had been over twenty this labor, as already shown, is unusually distressing hours in labor. As the os was pretty widely dilated, to the mother, and at the same time subjects the I decided, in view of the symptoms, to apply the forfeetus to increased risks. We have seen that the ceps and establish the second stage of labor, believed to the feetus is due solely to the persistence or ing the physical strength of the patient to be suffithe frequency and violence of the pains, interrupting cient to safely accomplish the subsequent stages of too frequently, too persistently, or too completely delivery. She was accordingly etherized to complete unconsciousness, and the head of the child brought The abnormal pains are not alone due to the irri- through the os and down upon the floor of the pelvis. tation of the mouth of the uterus by the direct con- The forceps were then withdrawn. As the effect of tact of the feetal parts with the uterus, but also to the ether passed off good expulsive pains came on. the mental condition of the woman. Most women and in due time a living child was born without ac-

The mother did well for the first nine days after such a state of mind is very apt to be reflected in-delivery, although the frequent pulse continued, with juriously upon the action of the uterine muscles, much coating of the tongue and some headache, but Hence care is necessary in the conduct of such la-without any febrile symptoms whatever. On the bors, first of all to reassure the patient, then to enjoin tenth day, however, while still kept in bed, she was rest as soon as the pains come on, and, if they are seized with pain in the left iliac region, which, on the at all disposed to assume an abnormal character, to following day, became violent, and did not yield to keep the woman constantly in bed and give opiates the small quantity of opium (a remedy which she to control the severity of the pains, to preserve the could not take without very disagreeable symptoms) proper rhythm of the contractions, and to favor dila- which I induced her to take. This pain was not accompanied by fever, and I had no doubt was mala-Before closing this paper I wish to refer to another, rial in its origin. Acting upon this belief, she was though kindred, subject. I allude to the obscure placed upon full doses of quinine, when not only did symptoms sometimes occasioned in the parturient the pain speedily disappear, but with it the frequent woman by the presence of intercurrent acute dispulse, the headache, and nausea. The patient had ease. I have several times been deceived by come to live in the house in which she was confined symptoms due to the malarial poison becoming man-but a few months before her confinement, and the ifest during labor, or in the lying in period, which first evidences of the presence of the malarial poisonhave in the one case closely simulated approaching ing in her system were those which appeared during exhaustion, and in the other acute local inflammation. her labor and subsequent lying-in. The dryness of Sometimes the manifestations of the presence of this the tongue and much of the nausea appearing durpoison consist of chills, followed by fever, while in ing labor were probably due to the opium I had

# BY W. AUSTIN CURRIE, D.D.S.,

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On different occasions during my period of practice, Case 4.—Mrs. C., act. 22 years, was taken in labor I have been requested by patients to explain why it with her first child early in the morning of June 8th. is that dentists seem to know so little about art. What As she had been referred to me for attendance in can I say, more than to confess that I do not know? confinement by her regular medical attendant, I had I have found repeatedly that such a reply does not in no opportunity of obtaining a personal knowledge any sense afford satisfaction to the inquirer, or tend of her previous health. I learned, however, that in to extricate me from an embarrassing position, but so far as she knew she had never suffered from mala Tonly serves to push me more deeply into difficulties. rial poisoning; but she had suffered very much from The query in the outset was prompted, probably, by almost nausea and frequent vomiting at the begin- a passing thought, and had they received any conning and towards the close of her pregnancy. The vincing reply, their momentary inquisitiveness would labor continued throughout the day, and in the even- have been gratified and the subject dropped then and ing became quite severe. The vertex presented in there. But, perceiving my inability to give any rea-

for me.

of a lifetime. They are only conscious of the general shows itself upon the face, and different expressions effect of a work of art, and do not realize what a are but the result of the action of different muscles vast amount of study and labor is required to attain in moving portions of the skin (and underlying tis-

such grand results.

glance at a painting. The artist has presented his to the countenance. work true to life; almost too much so to be pleasant. ing suggestion which a faithful picture communicates. arms and old withered hands outstretched, tears flowout some knowledge of the framework within.

tist, why should it not be equally desirable that the that would be hardly noticeable anywhere else on the

son why a profession so entirely made up of artistic mechanical dentist should be conversant with its requirements, should have no facilities for cultivating principles also? An artist, by making himself intian æsthetic taste in the dental colleges, their curiosity mately acquainted with the human form, and by his naturally became aroused, and I regretted that I perceptiveness, power of imitation, and definess of allowed them to see that the question was too much hand, can place a representation of it upon canvas. He can counterfeit any feature and bring forward any And can we wonder greatly that such questions expression. If his work be sculpture, he does away meet us, when we reflect that one of the two more with deception by placing actual shape before us. important branches of dentistry consists entirely in The one deceives the eye by light and shade, the restoring nature by art? What is Art? Of all the other gives us substance, the natural light contributing short words in our language there are but few which the appearance by which we distinguish the different are handled more frequently, and that, too, by persons forms of objects. With the dentist, the object is the who really have but a faint idea of what those three same; but, unlike the former, he has not blank canvas letters signify. How many of the thousands of sight- or hard stone to work upon, but has living tissues on seers who visit the galleries of our own and foreign which he can learn to put different expressions. countries, and are thus permitted to look upon the Many will say that expression comes from the mind, work of celebrated artists, comprehend that the cre- and that we have no control over it except in our ations before them are the result of the careful study own features. True, it comes from the mind, but it sues) so that a new light strikes upon it; this varying For the sake of illustration, let us for an instant light, with its consequent shade, adds a new aspect

An artist can change the whole expression of a It has been truly said, that, next to the actual pain painted face by the addition of a little extra light and experienced in being a party to sorrow is the touch-shade, and that with but a few strokes of the brush-All he does is to apparently raise some portions with Wandering over the canvas, our eye first notes the light and cause others to recede by rendering them a general interest; we remark the excellency of the little darker. If colors will change the countenance drawing, the perspective, and the coloring, but soon by appearing to raise portions, is it not patent that our attention becomes riveted on the central object, actually raising those parts will do it even better. It a representation of an old woman, a glance at whose takes but the slightest change in position of the lips face at once proclaims the special motive of the work. and adjacent parts to make a great change in expres-The scene is a court of justice, with all of its charac-sion. You will put greater faith in this assertion if teristic stiffness and its unpleasant suggestiveness, you will experiment a little yourselves. Take a por-Spectators are there with faces full of feeling. The trait, or, better, two, precisely alike. The lithographs learned lawyers, in powdered wigs, are there true such as are exhibited in the street-windows by theatres to life, while, in contrast, stands this poorly-dressed will answer every purpose. It will be best if we woman before the judge who is about to pass sentence choose a lady's face, as it is with the ladies' features. of death upon an only son. She is offering a mute principally, that we will wish to utilize our knowledge, appeal—no words of supplication; but the trembling if it be found worthy of use. It is, we will say, a full face, and one with a pleasant look about the features. ing over wrinkled cheeks, the intense agony so plainly Now with a crayon make a short downward mark depicted on every feature, is an appeal more touch- from each corner of the mouth on one picture only, ing than any eloquence the tongue could have offered, as we will need the other for comparison; then with Such a picture commands the attention of every be- your finger-end rub in a little white just under the holder; but how few realize what an immense amount lower lip, adding a trace of shade to the upper lip in of work it required to reach such a mark of perfect he same manner. What is the result? You have a tion. What an insight into human nature was called face the owner of which you would think had not an for to enable the artist to portray this touching scene, earthly friend. Now, after erasing what you have Do they reflect upon the fact that a knowledge of added, reverse the order of things by placing the anatomy, physiology, and other studies are required, light on the upper, the shade on the lower, and drawas well as of colors and their application? Many ing your lines upward from angle of mouth, instead persons have a faculty of painting a fair representa- of down, as before, and you will find the result retion of the human face upon canvas—they are said versed also; for the face is found now to be bright to be talented in that respect. But if they expect to and cheerful. By going a little further, and placing approach anywhere in the vicinity of perfection, they two curved lines from base of nose downward, past must be acquanted with the forms of the bones of the corners of mouth, with convexity outward, you have head, as well as the muscles and softer tissues. How a grin that will often prove contagious. A thin piece can they truthfully give the form of the outside with- of paper placed under the lip on the alveolar ridge, will add its quota to the expression.

Now, if this knowledge is indispensable to an ar- These changes have been effected by a few marks

on paper, can it not be accomplished, say in part, at with the next face that presents itself. If this is to least, with the face itself? Of course, it is an entirely afford any benefit to the practitioner, the observation different matter when we come to put our theory into and comparison must be critical. We are too apt to practice, as it will require that we educate the eye by bestow a casual glance, and forget as soon as the long and close observation of nature, and teach the patient is gone, whereas we should memorize or make hands to follow its dictates. The lips, of all the a note of the most important points. features, are the most direct index to the feelings, and the expression characteristic of every face is due almost entirely to the effect of light and shade about shade, we must go even further than this. We must the lips. It is (I believe) because we forget this cultivate a tast for art. We subscribe for some one fact, that we often feel dissatisfied with our work even or perhaps all of the dental journals—why not for an when the patient expresses pleasure with it. I believe, art journal as well? We try to keep ourselves posted too, that it is owing to the fact that the profession on all the new ideas in our profession—why not mix shows want of knowledge, care, or ability in this up a little art with them? Suppose that we cannot respect that we meet with so many faces whose see at first that it is benefiting our work, we cannot owners wear features that are blank, or almost ex-deny that it is refining, as well as affording a pleasant pressionless about the mouth. When we hear such change from an occupation that is in many respects common expressions as a beautiful smile, or eloquent disagreeable. Then when we have leisure we can lips, do we ever ask ourselves in what does this beauty turn our hands to a little modelling. or that eloquence consist?

carried out to its greatest extent? For instance, we artists' clay and one or two modelling tools. By an are told to carefully note the play of the lips over hour's work and the outlay of a few dollars, and we every detail, and felt disappointed when, upon near-manifest. If we have doubts of our ability to reaping a situation where I felt genuine interest, I found any benefit from modelling, why not try casting. that the points which seemed to me of the utmost choosing a friend or a patient's face for a subject? importance were passed over with a casual remark or Suppose that we try it in this way, our subject being two. I know when I say this that no one will infer a person who wears a full denture and with a bare that I am trying to pit my limited knowledge and face? First make a mould of the face (wax will expecting too much of dentistry.

we must analyze what we see.

drawing, unless about the eyes. If this can be done attention is given to the teeth. Then compare this

If we have a small space in our laboratories, why Our course of studies in mechanics is, to the best not utilize it by making a bench in a corner that has of my knowledge, perfect as far as it goes; but is it a good light, and then investing in a few pounds of the wax articulation; but what is it in the play of the have a way of passing our spare moments that will be lips that we are to study? I can but answer for my-novel and instructive. For it is in modelling and self. I was expecting to hear expression treated in casting that the effect of light and shade is made most experience against years of practical work of my in- answer) with the mouth empty. Then one with the structors. Perhaps our teachers expected the students plates in position, and then, after building up with to understand without further instruction. Perhaps wax in different places on the plates, place them in my classmates, by superior ability, were enabled to the mouth and make a third mould. Now to cast bridge over what seemed to me a break in the most with plaster. The wax mould will of necessity be interesting part of our course, or it may be that I am thin, so that it is best before casting to build up around the outside of the mould with sand so that the weight Now, the question is, how to proceed in order to of the plaster, when soft, will not change the shape. derive any professional benefit from the ideas here. Then if you will tint the water with powdered or dry suggested. As I regard it, the first requisite is to umber and a little vermilion before you mix the plaster, study nature, and study closely. As far as the human the latter will more nearly resemble the flesh-color. countenance is concerned, no one has more oppor- After casting all three, and allowing the plaster to set, tunity for observation than the dentist. Our business if you will remove the wax from each you will be surcarries with it a certain license, so that we can ex- prised at the entirely different expression on each amine a patient's features critically without giving face. The question is, where you will find a person offence. Unlimited chances are thus offered, and who will submit to so much trifling? I have experiwe can watch every face that we work over, and then mented with many different faces, and thus far they have been so deeply interested in the novelty of the Note the general expression, the fulness of the lips, work that I have yet to meet the first complaint. In and the tooth development beneath them. Watch conclusion, let me say that I believe that if dental where and how the light strikes the face, and what is practitioners who have never tried this, would do so, the result of different lights upon the same features, they would be surprised and pleased with its effect the result of different lights upon the same features. If any teeth are absent, note the effect upon the expression. Observe color of hair, eyes, and complexion, and then examine the exact shade of the levels, also the size and shape of the teeth as compared. I have not failed. On the contrary, I have succeeded that teeth, also the size and shape of the teeth as compared. with size and shape of features, form of head, and so far that now I am where I can see what can be general build of body. This can be done by a trained accomplished if one is perseverant. I am convinced eye, while the patient undergoes the usual examin- that the study of facial expression has helped me ation without suspecting but that your undivided wonderfully, and has given a new impetus to work

æsthetic

Cambridgeport, Mass., Oct. 13, 1885.

# AN ADDITIONAL CASE OF ACUTE PHTHISIS-QUICK CONSUMPTION-RECOVERY.

BY P. C. JENSEN, PH.C., M.D.,

Mrs. A.; age 27 years; married; mother of two children. Family history of phthisis on mother's side. Lost one brother of pulmonary tuberculosis, at 23 years of age, about one year ago. The appearance of Mrs. A. when first seen by me was that of extreme emaciation. Her anæmic and debilitated condition gave her a dull and sallow expression, exhibiting with marked distinctness that peculiar white pearly and glossy appearance of the sclerotic, and ocular conjunctiva so characteristic in phthisical subjects.

The patient had suffered considerable loss of strength from a long-existing menorrhagia, to such an days. During this inter-hæmorrhagic interval she results, in connection with the medical treatment. suffered additional exhaustion from a profuse leucorrhæa. She was troubled with a severe cough, worse in the afternoon, and continuing until after midnight. She expectorated large quantities of yellowish green,

tenaceous, but putrid matter.

Toward morning she saturated her clothing with a profuse and debilitating perspiration. Her temperature reached 102° in the afternoon, but was sub-

pulmonic tissue.

By active therapeutic interference, consisting of by the additional salutary effects afforded in checking condition than a vascularized connective tissue. exhausting discharges, viz: menorrhagia, leucorrhaea, The following is a brief history of a case that came shall meet a certain, definite indication.

Each case must be treated upon its own merit. tober 13, 18

that before seemed monotonous. One thing in For the menorrhagia and night sweats ferruginous which I think all will agree with me is this, that a preparations, ergot and belladonna were given in little art cannot injure us in any way, even if it is combination after meals; iodoform for its local antiseptic effect upon the lungs. Nux vomica, maltine, digitalis, comp. syr. of hypophosphites. etc., were administered for their tonic, nutritive and restorative influence. The patient is restored to a condition of healthfulness, with no apparent symptoms of return of her disease. November 15th an examination revealed normal vesicular respiration. She has no cough, no pain; has gained ten pounds in body weight in the last thirty days. She is doing her own housework.

It must be remembered that there exist various forms of consumption, which differ elinically. Each case therefore requires a difference in treatment. Again, in the same case there is a development of symptoms forming stages of the disease, each stage demanding its own treatment. Some forms of phthisis, if not too far advanced, admit of recovery. Other forms, especially well advanced cases, speedily or slowly run on to a fatal termination. Pulmonary therapeutics, by means of the Pneumatic Cabinet, can be efficiently applied directly to the respiratory extent as to reduce the inter-menstrual period to ten mucous membrane of the air vesicles, with beneficial

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### OSSIFICATION OF THE CHOROID.1 BY LYMAN WARE, M.D.

OF CHICAGO, ILL.

Although calcareous formations within the eye are normal in the morning. Respiration was bronchial of frequent occurrence, osseous formations are not in character, 32 per minute. Pulse 140. She ex- so common but that the following case may be inperienced a great deal of pain in her left side, and structive both pathologically and clinically. For a suffered from an almost continued vertical headache. long time all hardened deposits in the eye were con-Excessive coughing induced at times a reflex nausea. sidered calcareous, and the formation of true bone There was decided bronchial respiration in the left was much doubted. Knapp collected and studied lung. Increased vocal fremitus and a variety of dry, quite a number of cases of ossifications within the moist and crepitant râles were audible over the superior anterior two-thirds, and superior posterior one-mology and Otology. Vol. ii, pp. 1–35. At that time half, of her left lung. Right lung not affected. The he considered the capillary layer of the choroid the patient had no appetite, her bowels were constipat- origin of all intra-ocular ossifications. Since then a ed, and her vital powers greatly exhausted, due to number of cases have been reported (Knapp's Ardestructive retrograde changes instituted within the chives of Ophthalmology, Vols vi and ix) in which they occurred in other structures.

The formation of bone is usually preceded by protonic, nutritive and restorative treatment, and by longed and frequently severe intra-ocular inflammathe administration of remedies having antiseptic in-tion, and is generally of traumatic origin. The fluence over pulmonary retrograde processes; also development of bone requires no other antecedent

and night-sweats, the patient soon gave evidence of under observation: Mr. J. D., farmer, et. 20, of improvement, and before long was convalescent. American birth, when 9 years of age was struck acci-Each case demands a therapeutic difference in treat-dentally in the right eye with the handle of a pocketment, according to the stage of the disease, the pe-knife, which completely and instantly destroyed vision, culiarity of the local lesion, its symptomatology, and caused severe inflammation in and about the eye, complications, etc., and therefore such variation accompanied by great pain and much distension of should consist in the prudent administration and ap- the ball and surrounding tissues. This continued for plication of rational medicine, so that each remedy several weeks. During the five or six subsequent

<sup>&</sup>lt;sup>1</sup>Read before the Chicago Society of Ophthalmogy and Otology, Oc

years the injured eye caused little or no trouble. months was partially divided in its equatorial diamcame painful, at times better, at times worse. Pain ball to the anterior, where it expanded funnel-like usually subsided in a few days if the patient remained and enclosed a calcareous lens. The ossification quiet in a darkened room, and made frequent hot was situated in the choroid, its thickest portion corapplications to the eye. In the winter of 1880, left responding with the entrance of the optic nerve. eye began to be somewhat sensitive to light, particularly to artificial or light reflected from snow.

The patient was first seen in July, 1880. The R. or injured eye was somewhat atrophied, tension greatly diminished, and slightly tender on pressure, although not markedly so. In the L. eye there was photophobia, lachrymation, slightly sluggish pupil, and supra-orbital neuralgia. Vision for the distance tolerably good  $(V_{\cdot} = \frac{15}{20})$ , but it was quite impossible for him to read even Jæger No. 11 more than a minute or two on account of the lachrymation and ciliary neuralgia which it induced. Ophthalmoscopic examination showed well-marked neuro-retinitis.

I advised immediate enucleation of the injured eye, but it apparently gave him little trouble, being only slightly painful at times, and as he was a farmer, he did not like the idea of wearing an artificial eye and submitting to all the inconvenience such an eye entails. He declined to submit to the operation and returned home. In the latter part of August, five or six weeks after his first visit, he returned to the city and was quite willing to submit to the enucleation of the injured eye, as his symptoms had grown much worse after reaching home. Tenderness on pressure of R. eye was much increased, and the eyeball intensely injected. In the L. eye considerable pain and supra-orbital neuralgia, sluggish pupil and photophobia.  $V = \frac{10}{20}$ .

August 20, 1880.—Patient advised to remain quietly in darkened room and take the following:

August 24.—Inflammatory symptoms not so great; ether was administered and the injured eyeball removed, although with some difficulty, owing to its atrophied condition, and the dense fibrous adhesions which completely surrounded it.

August 25.—Patient fully recovered from the effect of the ether, and the ciliary neuralgia less than it had been for months. Ordered pil. proto-iodid. hyd. (gr. 1/4), one three times daily.

September 10.-Wound nearly healed, neuralgia entirely absent; vision much improved  $(\frac{15}{20})$ , and patient allowed to return home, but advised to take the following alterative for six weeks or two months:

A teaspoonful three times a day, in water after meals.

December 4.—Patient returned to the city for artificial eye; no recurrence of neuralgia and vision fully restored  $(V_n = \frac{30}{90})$ .

weeks, then in absolute alcohol, and after three writers.

During the winter of 1875 and 1876, when he was 16 eter. The vitreous was liquefied and immediately years of age, or seven years after the accident, as a escaped, leaving the retina in the form of a cord exresult of severe exposure the injured eye again be-tending from the fundus or posterior portion of the



Fig. 1,—Antero-posterior section of the eye;  $OS_0$  ossification; R, retina passing through it and cord or funnel-like extending forwards to the calcareous lens; S, scienosic: L, lens; CH, choroid; CB, ciliary body:  $OC_0$  opaque cornea, EB, EB

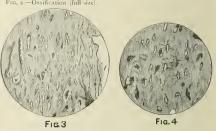


Fig. 3.—Microscopical appearances, with No. 4 object-glass Fig. 4.—Appearance under No. 10 immersion lens.

The eyeball was somewhat atrophied, measuring a trifle over two centimetres in the antero-posterior diameter, and a little less than two centimetres in its equatorial axis. The ossification measured fifteen mm. in length, concavo-convex; the concavity looking forwards, and from four to eight mm. in width. Measured from the optic disc it was a few mm. longer on the outer than on the inner side. Its greatest thickness, which was at the optic disc, was two mm. The posterior or convex surface of the bone was well-marked with choroidal pigment. Five years have now elapsed since the enucleation, and no relapse has occurred in the eye sympathetically affected.

The points of special interest in the case are the slight tenderness in the eye primarily affected, the rapid and complete recovery, and restoration of perfect vision after the injured eye had been removed. The question arises, if in cases of sympathetic ophthalmia neuro-retinitis be the predominant symptom, is not the prognosis more favorable than when cyclitis predominates? Which nerves are principally concerned in the former and which in the latter?

This case is certainly confirmatory of the conclusion arrived at by Knapp (Archives of Ophthalmology and Otology, vol. ii, p. 34), that "the diseases which lead to ossific productions are chronic inflammations of the interior coats of the eye called internal ophthal-The eye was placed in Müller's fluid for several mia by the earlier, irido-choroiditis by modern

## MEDICAL PROGRESS.

Society of London, on Nov. 27, MR. C. H. GOLDING- chance of regurgitation of food than after gastrostomy; BIRD related the case of a man, at 46, who had had regurgitation in these cases being a serious drawback symptoms of pyloric obstruction for ten months. to that operation in cesophageal constriction.-Med-When admitted into Guy's Hospital, a tumor could ical Times and Gazette, December 5, 1885. be felt at the seat of the pylorus, and the man's general condition was one of extreme emaciation through the inability to retain the food he took, and his vol- - DR. MARANDON DE MONTYEL summarizes the untary abstaining from eating on account of the pain results of his investigations of the production of he suffered. After three weeks treatment, under Dr. morphiomania as follows: Carrington, by drugs and washing the stomach out, he passed into the author's hands, and when all the for intellectual excitation and psychical pleasure or risks had been explained to the patient, and all meth- in the acquired habit. ods of palliation had failed to improve his condition, arrangements were made to explore the diseased action: a benign and a special action upon the nervous parts, and remove them if expedient. He therefore, system by which its natural function becomes imposon October 25, 1885, cut down on the pylorus with a sible after a certain term without the assistance of the view to performing pylorectomy, following the lines poison. These two effects are separate and distinct laid down by Billroth; but, finding the tumor adherent from each other; the second is manifested when the to the liver, determined to go no further in the radical first is no longer exhibited. There are, then, two operation, but to convert it at once into a palliative kinds of morphiomania; the one resulting in temporone of opening the jejunum, in other words, of per- ary good effect, the other a vital necessity; and after forming jejunostomy. Having seized the jejunum a variable period the cases of the first order pass over two inches from the duodenum, it was held upon a into the second. pair of tongue forceps, whilst the wound in the III. This double action of morphia upon the nervparietes was united; to the lower or right end of this ous system renders it an extremely dangerous medicawound was the jejunum now stitched by interrupted ment, and it therefore should not be prescribed sutures. The patient suffered in no way as the result of the operation. He was fed partly by rectum, | IV. It is also extremely dangerous to combat partly by the mouth, until the third day, when the morphiomania by the substitution of alcoholics, inbowel was opened and food administered solely asmuch as chronic alcoholic insanity may result through the fistula. It was observed that, as long as therefrom. the meal amounted to a pint, or nearly so, the patient the pylorus allowing too free passage of chyme, rather tionary collapse result. than to anything wrong with the gastric or pancreatic secretions. Everything went on perfectly well till suppression of the drug, it appears advantageous to the ninth day, the patient putting on flesh, but on combine with the progressive diminution of the dose that day, through an error in feeding him, some food the recoil of momentum by fusing two injections passed into the peritoneum, and he died in twelve into one. hours. The post-mortem showed such adhesion to, and infiltration of, the liver, from the cancerous pylorus, morphiomania are certainly based more upon extrathat pylorectomy could not have been performed. Ex- judicial than upon judicial clinical observation. cept the narrow track made by the probe, and along eration of gastro-duodenostomy, as performed by psycho-physical marasmus. Wolfler, and pointed out the great drawback, in this trostomy, in that the patient had to be fed through sponsibility in the latter case seems justified. the fistula, it was otherwise the best palliative opera- X. In the exact appreciation of the intellectual tion for pyloric cancer, inviting less risk than gastro- troubles caused by the abuse of the hypodermatic

enterostomy, and requiring less interference in its performance with the other viscera. By duodenal digestion, he also pointed out, full nourishment could JEJUNOSTOMY.—At the meeting of the Clinical be assured, and there was for physical reasons less

CONTRIBUTION TO THE STUDY OF MORPHIOMANIA.

1. Morphiomania has its origin either in a demand

II. Injections of morphia have as a result a double

V. Morphiomania may always be treated by abrupt each time he was fed had a severe attack of indiges- withdrawal of the drug, except in conditions when tion, but that this ceased when the meal did not ex- such methods are contraindicated by the vital forces ceed ten ounces. On this the author founded the of the patient or concomitant pathological phenomsuggestion that some cases of indigestion were due to ena. The method should also be abandoned if reac-

VI. In the treatment of morphiomania by gradual

VII. The medico-legal questions pertaining to

VIII. Observation shows that a morphiomaniac which the food passed into the peritoneum, the ad- may have great energy of will while the poison has hesions of the bowel and parietes were perfect. The not yet determined any disorder of intellect. There author than reviewed the operation of pylorectomy, is here a serious proof of what has already been said, speaking in favor of it in suitable cases, and the op- that responsibility only ceases with the period of

IX. Relative to the responsibility of morphismaoperation, that the stomach was not relieved of its miacs who commit crimes or offenses to satisfy their physiological duties at all, the pylorus not being re- passion, it is, perhaps necessary to distinguish whether quired to act. For the operation of jejunostomy, as they have yielded to the simple appetite for a pleasant he termed the one that he detailed, he claimed that, effect or to a physical necessity dependent upon the whilst it possessed the same disadvantage as gas- instinct of self-preservation. A conclusion of irre-

injection of morphia, it is important correctly to which occurs as a dark powder with a slight scent, appreciate the existence of predisposition to insanity, reminding one of thymol. It is very slightly soluble, and the delirium produced concurrently by the ab- and is best used either in substance or suspended in sorption of other substances, such as alcohol and glycerine, or made into an ointment with vaseline.

of morphiomania by disseminating general informa- of glycerine. Most brilliant results have been obtion in the upper ranks of society concerning the tained by the use of the substance itself on chances deplorable and certain evil effects following the use and syphilitic adenitis. In simple indolent ulcers, over pharmacists, and impose special penalties upon ficial. A spot of lupus on the leg was treated by those who dispense morphia without a physician's injections of iodol solution into the surrounding sub-Amer, Journ. of the Med. Sciences, Oct., 1885.

account of Professor Cantani's experiment in "bacteriotherapy," in which a phthisical patient was sub- Gazette, December 5, 1885. jected to inhalations of bacterium termo. The result was that bacillus tuberculosis disappeared, and the condition of the patient was wonderfully improved. OF CUTANEOUS DISEASE.—P. SOMBRET (Thèse de Dr. Salama, of Pisa, reports another case of the same | Paris | gives the following résumé of the advantages kind. In a case of phthisis, with a cavity in the apex possessed by naphthol in the treatment of some forms of the left lung, and various patches of consolidation, Koch's bacillus disappeared within about a fortnight after the inhalations of the bacterium termo were commenced, all the other symptoms improving at the same time. Dr. Maffucci, Professor of Pathological advised by Kaposi, there are observed neither forms Anatomy at Pisa, who verified the diagnosis, prepared of intoxication (albuminuria, coloration of the urine) the bacterium-culture. A few drops of spring-water were added to a sterilized solution of gelatine in meat broth with peptone. After a day or two, colo- and exercises a very beneficial effect upon the erupnies of various micro-organisms made their appear- tion due to the disease. ance, and amongst them was the bacterium termo. Under the microscope, a sterilized platinum needle use is free from danger and inconvenience. was dipped into this, and then introduced into another portion of the gelatine preparation. After two days, observed. this was found to be a pure culture of the bacterium this way served for one day's inhalations, being mixed upon the eruption. It, nevertheless, does not possess the putrefaction became insupportable to the patient. Oct., 1885. Broth so prepared was given by Siegel's spray-producer every day in divided doses. Sufficient time has not yet elapsed to show whether the improvement Paris correspondent of the British Medical Journal was permanent. It is not quite certain that the bac- writes that Mr. Galezowski recently read a paper terium was the sole agent of amelioration here. It before the Academie de Médecine on the action of is possible that the meat-broth may not have been pelletierine on the motor nerves of the eye. His rewithout its effect; and it is just within the range of searches are based on the ocular disturbance which supposition that the bacterium has a psychical influ-| occurs in subjects who absorb pelletierine; they are ence on physician as well as on patient, not less important than its alleged bacillicide properties. — induced M. Galezowski to prescribe pelletierine when Brit. Med. Journ., Nov. 28, 1885.

form in the consulting-room must frequently have I gramme per 120 parts of syrup. From three to six been seriously annoyed by its powerful and persistent doses were administered. Unfortunately, this subsmell. Drs. Silber and Ciammician, of Rome, have stance is excessively dear. M. Galezowski hopes to found an admirable substitute which has all the admeet this difficulty by administering pelletierine in vantages of iodoform without its odor or, it is said, subcutaneous injections. its poisonous properties. This substance is iodol,

A lotion can also be made by dissolving 1 gramme of XI. It is necessary to retard the continual progress iodol in 16 grammes of alcohol and adding 34 grammes of the drug, and to exercise an active surveillance too, the use of the iodol lotion has been very beneprescription.— L'Enciphale, May and June, 1885; cutaneons tissue with the result of preventing the disease from spreading. Iodol has also proved useful in fungating joint diseases. Over 200 observa-BACTERIOTHERAPY.—In a recent number (British tions have been made, and neither erysipelas nor a Medical Journal, August 29, 1885), we gave a short diphtheritic condition of wounds has occurred.— Wiener medicinisches Blatt.—Medical Times and

> THE APPLICATION OF NAPHTHOL TO SOME FORMS of skin disease.

> 1. The preparations are odorless, and stain neither the skin nor clothing.

> 2. In the use of naphthol, with the precautions nor active inflammation of the skin.

> 3. In scabies, naphthol is an excellent parasiticide

4. In pediculosis the remedy is efficacious, and its

5. In psoriasis no satisfactory effect has been

6. In prurigo (of Hebra) naphthol causes the termo. The contents of one test-tube prepared in itching to disappear rapidly, and has beneficial effect with a meat broth made from 150 grammes of beef a curative power in this disease greater than that posto 200 grammes of water, and left for eight or ten sessed by other remedies.—Revue des Sciences Médihours, according to temperature. If left too long, cales, July, 1885; Amer. Journ. of the Med. Sciences,

Pelletierine in Ocula-Motor Paralysis.—The there is paralysis of the third and sixth pairs. Iodide of potassium and blisters have failed where pelletierine A NEW ANTISEPTIC, Those of us who use iodo- has cured; the preparation used is syrup of pelletierine.

# PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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SATURDAY, JANUARY 9, 1886.

#### THE STUDY OF MEDICINE AS A MEANS OF EDUCATION.

insisted upon by the medical colleges.

strations repeated a thousand times, so important for Journal of the American Medical Association, the development of the reasoning faculties; that they have enjoyed the advantages of analysis and synthesis in the study of languages. . . To all such we would say that they have laid a solid foundation upon which to add professional studies. Their education has been in all directions; not merely one class of mental faculties, but all have been exercised and disciplined."

It will be observed that nothing is said in the above quotations as to the value of the sciences in training the mind, or mental faculties; which seems to imply that the sciences (three of which are mentioned) are to be studied solely for a general knowledge of certain facts, and because they are included in the college curriculum. It should be remembered that we are now considering the academic "education" as preliminary to the study of medicine particularly. Our author speaks of the importance of the study of mathematics for the development of the reasoning faculties, of the study of languages for analysis and synthesis, but does not even allude to the great value Such is the title of a paper read before the Ameri- of the study of chemistry or geology for these purcan Academy of Medicine, at its recent meeting in poses. It must, however, be unhesitatingly asserted, New York City, by Dr. J. LOWRY SIBBETT, of Carlisle, that the study of chemistry (a branch, be it remem-Pa. The paper is not intended, as might at first be bered, of surpassing importance for the understandsupposed, to show that the study of medicine is a ing of medicine) as it should be taught, far surpasses means of education; but to show that the preliminary the study of mathematics for training the reasoning education (or the academic) for the study of medi- faculties. The modern mathematics is of but little cine should be more thorough, and that this should be value for this purpose, as was pointed out by Whewell more than forty years ago. While mathematics is a It will be remembered that one of the requirements purely deductive science, it is not yet the embodifor membership in the American Academy of Medi- ment of pure deduction. There is no appeal to obcine is that the applicant must be a graduate of an servation, fact or induction. It does not teach the academic college; and unless we have misread the student to, or how to observe, generalize, classify, or article now under consideration, this idea runs through define by the examination of particular things; and it as an undercurrent, though the author does not ex- when statements and arguments are confused and press the view that graduates of academic colleges perplexed by verbiage, contortions, inversions and should be admitted to the medical college classes on ellipses, its principles are absolutely useless. In rethe face of their diplomas in arts. Nevertheless, it gard to the peculiar advantages of languages for eleis directly implied that a man is unfitted for the study vating the qualities of synthesis and analysis it may of medicine until he has completed a course (obtained be asserted that they do not exist. Language should a liberal education) in an academic college. Com- be studied chiefly as the tool of thought. "The scipleting a course in an academic college means only entific student must no longer be handicapped by a that the student has attended recitations or lectures linguistic (1 will not say literary) burden" (Huxley). on certain prescribed studies; he has, to quote our The languages now required by a scientific man are author, "studied mathematics, languages, rhetoric English, French, German, and to some and an inlogic, mental and moral philosophy, and as much creasing extent, Italian. He does not need them chemistry, geology and astronomy as is usually taught except as tools, to find out what is going on in the in respectable classical schools." We may assume, scientific world. But in order to learn them for this says our author, that the medical students from these purpose he need not lumber up his memory with a schools "have spent five or six years in these several mass of grammatical detail. It should be distinctly departments of useful study; that they have the understood that the literary man may use the results mental discipline resulting from mathematical demon- of science as so much literary material without trouarrived at; and that the converse is almost literally between a scientific and literary profession, there true of the scientific man as regards languages.

That it should still be held, almost at the close of ods, spirit and aim of study. this century, when the natural sciences are the great | It has been held that Greek scholarship is impospowers of the world, and, after religion, the greatest sible for the student who begins that study in college; power of modern civilization; when all the ancient and still less can we expect scientific scholarship and classical learning has failed to stay one human when the study of science is first begun and too soon pain or to lift one ounce of human suffering, that the ended in the medical college. A change from classman who has not had the usual routine academic ed- ical to scientific studies at the age of 18 or 20 has ucation is unfit for the study of medicine, is beyond as many disadvantages as changing a profession at conception. The whole success of the physician 50. However desirable it might be for a man to must depend on the skill with which he can utilize be both a classical and scientific scholar, he is the the experimental sciences. Should the millenial day rare exception who can attain to this double culture; come when everyone who elects to study medicine and as we can neither change the mental capacity must go through a thorough preliminary course of nor alter the span of human life, we must be content training for it, it is to the experimental sciences that to strive after that education, that culture, which will we must look for the foundation upon which to build make us the most useful citizens. If the school-men a thoroughly competent physician. And then will contend that the classical scholar is more brilliant come the time when the original investigator will be and ornamental, so be it. So is the diamond more a usual product, not an accident. If the physician brilliant than coal, though both are carbon—as are is to be scientific, he must have a scientific founda- classicists and scientists human. And to attempt to tion; but as the case now stands, very few of the make a scientific man in a classical retort is as abthe study of science, or of a profession founded on the living present. science. "An instructor in natural science has very A further and very important point is, that the much the same difficulty in training classical scholars recasting of the present academic course of education to observe that a dancing master would have in teach- so as to include more science, and science properly ing Chinese girls to waltz." (Cooke).

as compared with a thorough knowledge of chemistry a knowledge of the laws of nature, under which they

bling himself as to the methods by which they are alone. As there is a difference of subject-matter should and must necessarily be a difference in meth-

graduates of the strictly academic (and most of our surd as to try to make coal a jewel by setting it in gold, academic schools are "classical" schools) of this or to run a steam engine by throwing diamonds country are properly prepared for the study of medi- into the furnace. In a word, scientific culture is a cine. And while we would not decry these schools, suitable basis for a liberal education, and it will be it must be said that the instruction given in the greater recognized as such when the school-men cease to number of them is not that which fits the student for dream in the moonlight of the past, and awake to

taught, would tend to show the student his fitness Medicine, which a century or so ago was ruled by for any particular profession much more clearly; and authority and traditions, and might then have been in this way it is extremely probable that very many classed with the literary professions, has now come who are not fitted by nature, inclination or educato rest on a purely scientific basis. This truth is not tion for the study of medicine would pursue other altered by the fact that medicine is not yet a pure or callings. It is time that a halt was called to the exact science. And inasmuch as a distinction must absurd idea that, while every man may not be fitted be made between literary and scientific professions, for the study of a scientific profession, every one is an equal distinction should be made in the systems adapted to the mould of the academic or classical of education that lead up to these professions. It is college course. Teachers of the experimental scithe object of the physician to unravel the mysteries ences declare that the students of the academic colof the healthy and diseased human frame, and to leges form tread-mill habits which unfit them for the direct and aid the forces of nature for the cure and immediate study of science. Prof. Cooke, probably prevention of disease; and all the logic of the school- the best teacher of chemistry in this country, has men, the ability to analyze and read all the Greek written forcibly on this subject, and says: "After and Latin that has ever been written, and the facile that command of language which the necessities of demonstration of an epicycloidal curve or of the civilized life imperatively require, there is no acquisquare described on the hypothenuse of a right-angle sition which we can give our children that will exert triangle, are of infinitely small value for these ends so important an influence on their material welfare as must live and to which they must conform;" and he marked pathological alterations to take place. and all other teachers of science declare that this it is entirely possible that had the forcible injections knowledge cannot be gained by recitations from been made on Friday or the day before, the intestinal books on "familiar science." There should be a wall might have been ruptured. requiring a certain line of education.

#### FORCIBLE INJECTIONS IN INTESTINAL OBSTRUCTION.

for January, 1886, Dr. H. Illoway, of Cincinnati, pump proves ineffectual, with as little delay as reports four cases of intestinal obstruction treated by possible. It will be remembered that in an editorial the forcible injection of water, with three recoveries in The Journal of September 26, 1885, the treatand one death. The injections were made with a ment of intestinal obstruction was carefully dispowerful force-pump, and repeated two, three or more cussed, and the following sentence quoted from the times, as necessary. The post-mortem examination paper of Mr. Treves, read before the British Medical in the fatal case showed that a knuckle of the ileum Association, at Cardiff: After twelve hours of treathad passed through a slit in the omentum and bent ment of acute intussusception with opium or bellaupon itself, and the intestinal structures about the in- donna and rest, it will be expedient to attempt recarcerated portion were somewhat softened, (death duction by means of insufflation or forcible enemata. having taken place in a little more than a week after This should be done in the first twenty-four hours, if the symptoms set in.)

Dr. Illoway concludes from these cases that: 1. early. Enemata are superior to every other method of treatment. a. In the rapidity in which the cases are relieved. b. And in clearly indicating whether a on Friday; a sufficient time having elapsed for Washington in September of that year,

course of preliminary study for the medical profes- However this may be, Dr. Illoway shows very consion, and the medical colleges should require pre- clusively that forcible injections are of great utility liminary examinations; but the fact that a student in promptly relieving some cases at least of one of may pass high in Greek. Latin, mathematics, logic, the most unsatisfactory conditions with which the mental and moral philosophy, etc., does not form the physician or surgeon has to deal. In the three favorleast indication that he is fit to study medicine. ably terminating cases the relief was permanent and Medicine is not a means of education, but an end almost immediate. In one of his cases an ordinary Davidson syringe had been tried without effect before the force-pump was used; from which it would seem that sufficient force cannot be obtained from an ordinary instrument. It is scarcely necessary to say In the American Journal of the Medical Sciences, that laparotomy should be performed if the forcepossible, in order that laparotomy may be performed

#### COLLECTIVE INVESTIGATION OF DISEASE.

We have recently received the "Proposed Quessurgical operation will be required. 2. They are ention-paper No. 7," issued by the International Comtirely safe and free from all danger, and in no way mittee for Collective Investigation, which completes prejudice the case should a surgical operation become the series intended for collecting the facts concerning necessary. It is due to Dr. Illoway to say that an the geographical distribution and etiology of rickets, operation was advised in the fatal case two days be- acute rheumatism, chorea, cancer, and urinary calfore death, and was refused. But for the length of culus. The memorandum and questions for the four time at which death ensued in this case, and the first named of these diseases were very neatly arranged small amount of softening of the incarcerated portion and printed for distribution in this country under the of the intestine at this late date, we should be in- personal supervision of Dr. A. Jacobi, of New York, clined to think that there may be an element of danger one of the American Members of the Committee, in forcible enemata in cases of some days' standing; several months since; and it is earnestly desired that namely, rupture of softened intestinal walls by the all who have received copies, or who may receive force of the injection and the pressure of the fluid, them soon, will carefully make the proper entry of This fatal case must either be exceptional in regard all cases coming under their observation during the to the degree of softening found, or we must think years 1885-6, and return them to either one of the that the danger mentioned is comparatively slight American Members of the Committee early in Januuntil a longer time has elapsed. Of the two alterna- ary, 1887. The return at that time is necessary in tives it must seem that the first should be held. It order that the facts they contain may be properly should be remembered, also, that the last injections collated for use in connection with those gathered in were made on Tuesday, and that death took place Europe, at the International Congress to be held in

#### NINTH INTERNATIONAL MEDICAL CONGRESS -PROGRESS OF ORGANIZATION.

Two or three of our exchanges still repeat the assertion that no material progress has yet been made in the Organization of the Congress. This is far from being true. On the contrary, the Preliminary Organization is at this time nearly complete. First, notwithstanding all that has been said about declinations, a large number of those appointed and published by the Committee on Organization, as first constituted, still hold their places, and for every one who has declined two equally well qualified have having been present during the discussion of Dr. cheerfully accepted positions. Second, the only im- Chancellor's paper, he wished to say in regard to the portant vacancies now existing are in the office of President of the Sections of Physiology, Pathology, and Gynecology, the filling of which has been delayed by the Executive Committee for reasons we have stated in previous issues of this JOURNAL.

Not only is the *personnel* of the Organization thus nearly complete, but the proper officers are actively engaged in arranging the work for each Section, and the Executive Committee will doubtless be ready to issue a supplementary circular containing a full programme, early in May next. Already notices of contributions for several of the Sections have been received from prominent members of the profession in Great Britain, and indications favorable for a full European attendance are daily increasing.

CHRONIC ULCERS .- DR. W. P. Howe, of Charleston, Mo., writes to us saying, "that lime procured from barrels that have stood open for some time, sprinkled upon chronic ulcers will cure them when everything else, usually prescribed, fails. . . . Cleanse the ulcer with warm water and soap once every two days and fill the sore with lime; no more bad odor, no more pain, and a remedy so cheap that it is within the reach of everyone.

THE CHICAGO MEDICAL JOURNAL AND EXAMINER, for January, 1886, contains a connected and fair history of the origin and progress of the work for effecting the Preliminary Organization of the Ninth International Medical Congress. If any desire such a connected history they can obtain it by applying to the Editor of that journal, 242 Wabash Avenue.

THE DEATH OF DR. J. ORNE GREENE, of Lowell, Mass., is announced as having taken place on De cember 23. Dr. Green was born in Malden, Mass., on May 14, 1709, and was therefore in his eighty-Department of Harvard in 1822.

## SOCIETY PROCEEDINGS.

#### AMERICAN PUBLIC HEALTH ASSOCIATION.

Thirteenth Annual Meeting, held at Washington, D. C., December 8, 9 and 10, 1885.

(Continued from page 2.1.)

THURSDAY, DECEMBER 10-THIRD DAY.

EVENING SESSION.

The Association was called to order at eight o'clock by the President, Dr. James S. Reeves.

Dr. J. M. Toner, of Washington, stated that not prevalence of pulmonary diseases in Washington, that it was due in a great measure to the large number of colored people in the District who, on account of their careless mode of living, without sufficient shelter and proper food, are predisposed to consumption; and further, that many of the deaths occurring here do not belong really to our population, as they occur among people already fatally affected, and only stopping here on their way to a more southern and genial climate.

A special committee on

#### DISINFECTION OF RAGS.

to consider the resolutions offered on that subject, was appointed as follows: Drs. J. Howard Taylor, of Philadelphia; A. N. Bell, of New York; Henry B. Baker, of Michigan; C. W. Chancellor, of Maryland; and H. B. Horebeck, of South Carolina.

#### THE LOMB PRIZE ESSAYS.

DR. C. W. CHANCELLOR, Chairman of the Committee on the Lomb Prize Essays, reported that the Committee had carefully examined the thirty-six essays on "Healthy Homes and Foods for the Working Classes," and had not found that any of them fulfilled the requirements. In view of the fact that the essay bearing the motto "He who secures a healthy home and healthy food for himself and family does not live in vain" is one of great merit, the Committee had decided to award to it the second prize.

The Secretary was then directed by the President to open the sealed envelope corresponding to the motto, and it was found that the author was Prof. Victor C. Vaughan, of Ann Arbor, Michigan.

Hon. Erastus Brooks, Chairman of the special Committee to award the prizes for the essays on

THE SANITARY CONDITIONS AND NECESSITIES OF SCHOOL HOUSES AND SCHOOL LIFE,

read the report of the Committee: The Committee appointed by the American Public Health Association on "The Sanitary Conditions and Necessities of School Houses and School Life," and to whom the Secretary has forwarded twenty papers, covering from twenty-two to one hundred and sixty-five pages,

1. That they have given to the papers the attenseventh year. He was graduated from the Medical tion due to the importance of the subjects discussed. All of them present subjects belonging to the proper care and character of common and private schools worthy of all honor, and the example deserves the -to building, their management indoors and out of thanks of the people and the congratulations of wise doors, and especially to school hygiene. Everything and good citizens of the whole country. relating to physical education and general health is presented, and under these and other subdivisions of State, the State owes them instruction in what belongs subjects all that relate to scholars at school and schol- to the mind; and if this is admitted, physiology and ars at their homes, to every form of possible school anatomy ought to be taught in all schools, as the disease, to proper hours or times of study, to school recent statute requires in the State of New York. age, to light, and diet and clothing, to heat and cold. In a very important sense the body and mind are sleep and needed recreation, to proper kinds and one, and especially are they a unit in about all that times and places of exercise, of general eye-sight relates to health. Physical and mental education and all diseases of the eyes, to baths, bathing, and should receive equal attention. all distempers and maladies to which children at school are exposed, to school architecture, accompa- proper directions of all studies, according to age and nied with valuable illustrations of the best styles of bodily or mental conditions, present subjects apart building, to school grounds as to places, grading, and from overwork in the school-room. The suspension finish with reference to the plans known as the sys- or continuance of studies in the interest of educatem or plans of Mr. T. M. Clark, of Boston, the tion also presents this subject wholly apart from Sargent system of Cambridge, the Briggs plans of what is called too much study or overwork in the Connecticut, the Swedish system of Lying, and al- school-room.

with the fact that those who most need the informa- the fathers and mothers of the country. tion given in them are from prejudices, habits of life, 6. It is also urged that teachers should be licensed

3. If children are forced to go to school by the

4. The limited time due to any one study, and the

most every system founded upon knowledge of the 5. Among the specialties named and urged in human body. Bodily punishment is opposed in all some of these papers are the appointment of regular the papers, except in very rare or extreme cases, and medical examinations both of teachers and scholars, one reason given is that lethargy, idleness, and dis-obedience may come, and do often come, from evils and these persons to know that the teachers have in in the schools where severe rules are the near or re- all respects intellectual fitness for their tasks as mote causes of the evils complained of. So likewise, teachers. Such appointments would direct and conschool competitions are censured as exciting the trol all that belongs to school hygiene, all that belongs nervous system too much, and often arousing jeal- to vision, the source of so many evils to pupils under ousies and ambitions which result in no practical the present neglected systems, of what belongs to good to those who are pitted against each other. light, air, bodily positions, time and place of lessons, School exhibitions in the heat of summer are also and of what is due from teachers in regard to physicondemned. Where competitions and exhibitions cal and scientific development both of mind and are desirable, the exhibitions and recitations should body. These medical examinations, it is believed, not be in public. No one school, it is held, would result in the double good of saving life and should exceed 600 pupils; and where, as in the promoting health, of separating those afflicted with schools of New York City, out of 2,300 very young contagious and other diseases from those who are pupils examined only 122 had at best perfect eye- free from them. It is urged that for these reasons sight, it becomes too apparent that the crowded there should be some annex for the feeble in body condition of schools is largely responsible for the and mind. If the State is ready to enforce the separincreasing defective eye-sight in young persons. All ation of dumb animals—the healthy from the disthe more is this apparent and suggestive when it is eased-it is urged that the State should be at least known that myopia becomes a progressive disease. quite as ready to separate school children whose pres-Where careful examinations have been made, it is ence one with another endangers the health of the shown that, starting from nothing, from 60 to 70 per pupil, of the family, and of the whole community. cent, of the scholars have, in one form or another, If, in a sentence, a quarantine is required for the impaired eye-sight; and that from 10 to 25 and even cattle and hogs of the country, a like quarantine 30 per cent, in some schools have impaired hearing, should be provided for the little ones who already are 2. In reading these several essays we are impressed the children of the State, and if alive hereafter to be

ignorance and other reasons, the least likely to be to teach and their qualities proved before they enter benefited by the facts and statements they contain, upon their work. At present politics, prejudice, But this truth only shows the constant necessity of sects in religion and prejudices in party, with ignor this form of education, and the duty of those who ant men to select and decide in the choice of teachare blessed with means, experience and knowledge ers, too often and most often are the motives and of improving every opportunity to impart to others, purposes of the successful choice. If anywhere in and in every practical manner, the result of their the public service an intelligent and honest civil own study and investigation. In this spirit Mr. service is needed, it is in the selection of teachers in Henry Lomb, of Rochester, in the spirit of the largest our common schools. If discretion, wisdom and generosity, has made the American Public Health righteousness are required upon the Bench, at the Association the vehicle or instrument of his several bar, in the general business of the State for the people of the health comfort and instruction that a large or in the teachers from desks dedicated. benefactions for the health, comfort and instruction ple at large, or in the teachers from desks dedicated of the people of the State and Nation. The act is to God, these qualities are surely none the less re

judging from the past and present, will number nearly riod of time usually devoted to school life.

one hundred millions of people.

dom in fitting places of recreation, favors the co- the necessity of a much greater interest in the sanieducation of the sexes, between the ages of beginning tary condition of school houses, and of a much larger study (which varies from 5 to 8 years) and the age common interest in school life. In the use of the of 14, excepting for children under 5 and in attend- eyes from various causes, fully enumerated in papers ance upon kindergarten schools, where the hands and before the Committee, it is shown that the disease the eyes are made useful almost by observation alone. known as myopia has increased from nothing to 50,

are used, is urged for strengthening the hands, as the per cent. That schools very often are but so many voice may be used for strengthening the lungs. As factors of near-sightedness, that parents and their a system, also, the Swedish, which is denominated homes share in the responsibility and cause of this a system, also, the Saction and medical, is the great grievance in common with teachers and school oldest, and with many the most approved, for the houses. This is also true, though not to the same reason that under one of these heads is taught the extent, in the bad use of the ears, in defective light, best kind of free exercise, under the second is taught in foul air and bad ventilation. These great defects what belongs to the expression of ideas and senti- in school rooms and homes, in teachers and pupils, ments by means of positions and movements and are all the time progressive in parents, homes, teachwhat may be called grace of manner. The use of ers, and pupils, from class to class, and from year to the sword, foil and bayonet belong to the third classi- year. fication, and the law of Congress of 1862 requires instruction in all these weapons, and in all that be-ry to secure the health of the present generation, our longs to early and practical lessons in military service.
Under the fourth, or medical head, instruction is enforced in what belongs to the treatment and cure of the present, and the present generation will in turn, chronic diseases and deformities, through the use or by persistent neglect and ignorance, become responagency of free movements, with or without assistance, sible for like consequences in the future. We all resistance by special apparatus, or by manipulation. well enough know and understand what inheritance These four exercises are intended for the harmonious means when it results in personal good fortune or development of the body, and secure the end de-family estates, and we ought to know what inheritsired. While this system is generally approved, it is ance means when the effect is to impart vice, disease proper to say that it is also criticised and opposed as and death upon those who are to succeed us. Forwanting in spirit and energy from the absence of tunately for the State and country, the American apparatus and the absence of motive to complete a Public Health Association is established to teach. definite object.

study in school, it is suggested that the full school all school life, as well as among adults in the homes hours be divided between books and work, and some and workshops of the country. kind of useful mechanical work, if possible. In the general order of proper school education we suggest: papers presented as worthy of the first prize. The

Secondly, Mechanical instruction in the interest both of mind and body.

Thirdly, And in this order, appropriate school studies from books.

While this is reversing the common methods of school education the beginning, at least, here suggested, is in the right direction, and should be insisted upon by the State and by all in authority having charge of our public school system. Your Commit tee, in view of the important subjects presented to them, venture to suggest and to recommend these

of the health of children entrusted to their care, that and his presentation of it has been very interesting. other knowledge than teaching the ordinary lessons. Coming to its ultimate analysis, a case of labor, teof the school room is desirable.

young, and that the chances of health in middle life ble to overcome the latter. Manifestly, if this be

quired in the great work of teaching the millions of and old age are almost impossible where a wise sanchildren in a country whose population ere long, itary foundation has not been established in the pe-

Thirdly. That the examination of the large num-7. One of the papers, chiefly for reasons of free- ber of papers submitted to the Committee proves The study of music, especially where the fingers 60 and 70 per cent., and in parts of Germany to 79

Fourthly. That in not knowing what was necessaamong other lessons, the necessity and value of hy-8. As a substitute for the long time devoted to giene for the young as well as the old, especially in

The Committee did not consider any one of the First, A sanitary education for the body and the second was awarded to Dr. F. Lincoln, of Boston. (To be concluded.)

#### OBSTETRICAL SOCIETY OF PHILADELPHIA.

Stated Meeting, Thursday, December 3d, 1885.

THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR. Dr. Elliott Richardson read a paper on

SOME CAUSES OF TARDY FIRST STAGES OF LABOR, AND THEIR TREATMENT.

(See p. 32.)

Dr. Parvin remarked that the subject of Dr. Rich-First. In regard to teachers, and in the interest ardson's paper was one of great practical importance, dious in either the first or in the second stage shows Secondly. That the highest object of life, next to a want of proper relation between power and resistmoral conduct, is the health of the old and the ance; the former for an unusually long time is unaesthetic inhalation.

process—that by which the circular fibres of the uterus of the amniotic sac. are, by the action of the longitudinal fibres, retracted DR. W. T. TAYLOR remarked that the causes of over the bag of waters, or the presenting part, if delay in the first stage of labor were numerous. For the former be ruptured; it is not so much descent the relaxation of rigid os he would prefer hydrate of of the presenting part which occurs as it is the as-chloral twenty grains; one-eighth of a grain of sulcent of the expanded cervix, for in primaparæ, at phate of morphia every two hours has a soothing and least, the head is usually, at the beginning of labor, beneficial effect, giving rest and sleep between the in the pelvic cavity, and it can go no farther until pains. When the edge of the cervix is thin and the dilated os has passed more or less completely wiry, the morphia is especially called for. He has above it. It may be that resistance being lessened experienced delay from dropsy of the amnion. Afby chloral, or by opium, the power is sufficient to ter a delay of six or eight hours he has ruptured the overcome it, but if it be not, probably the continumembranes and after the escape of an enormous ous current of electricity will be the most efficient quantity of fluid, rapid and effectual contractions sumeans to increase the uterine force. In this con-pervened. Another cause of delay is posterior posinection I may refer to the statements of Bayer, in tion of the occiput; if a change of position can be his recent elaborate monograph entitled Morphologie effected labor will progress more rapidly. He has der Gebürmutter. In many cases of labor where observed premature escape of the liquor amnii from delay occurs in the first stage, it is not the os uteri ten days to two weeks before labor, and yet everythat is at fault; the obstacle is higher up, and acthing went on normally. He has met with one case cording to Bayer, the anatomical condition of this of malarial poisoning. In the eighth month intense "Stricturirung" is the deficient unfolding of the pains were experienced, but there was no effect on cervix. In such condition there may be a spastic the os. He gave five grains of quinine and two ring-like stricture or a spastic partial stricture. The grains of potassium bromide, and in a few hours the first form is especially liable to occur in a narrow pain was relieved. pelvis. Bayer recommends warm fomentations, pelvis. Bayer recommends warm fomentations, or Dr. Longarer stated that according to his experience morphia should be used gradually. In some cotics, especially opium by rectal injection, but he cases it has caused still-births. In a recent case the strongly insists upon the continuous current as the first stage of labor had lasted twenty-four hours and true natural method of treatment, on the one hand the os was but one inch in diameter; four doses of relieving cramp, and on the other exciting labor, ac-sulphate of morphine, one-fourth of a grain each, tivity thus removing the primary failure, the deficient were, by mistake of the nurse, given at intervals of unfolding of the cervix.

One word as to the occurrence of malarial poison-quickly followed. ing in the puerperal woman. I think it compara- early stage of labor consists mainly of retraction of tively very rare. Certainly this is the conclusion the cervix, and early rupture of the membranes as a which I must draw from my own experience in pri-trouble is overrated. Undeveloped pelves of genvate and in hospital practice. In two terms of ser erally small diameter cause less delay in first labor vice at the Philadelphia Hospital I have seen probably forty cases of puerperal septicaemia, and only abdominal muscles are strong to assist the uterine one case of malarial fever. When one sees a febrile contractions; in later labors, besides having less attack in a woman after labor, he is disposed to take contractile powers, their laxity allows the body of the most favorable view of the case and may attribute, at first at least, the disease to malaria when favorably at the superior strait. really it is caused by septicæmia, losing precious DR. TRAUTMANN said that in one case under his time, and may be led to give a favorable when a care recently he found a well dilated os uteri and a

doubtful prognosis should be indicated.

so, we have naturally suggested to us two plans of Dr. W. W. Jaggard, of Chicago, upon invitation treatment: either increase the power or lessen the from the Chair, remarked that morphia hypodermiresistance. These principles are plain, but the se- cally had been extensively tried in the first stage of lection and the application often present serious dif- labor at Vienna and Paris, and had been discarded, ficulties. Severe suffering in the first stage of labor in the former city about six years ago, and in the certainly should be relieved, for this suffering exlatter more recently. It had been found to affect hausts, and it does not follow that the power of a the feetus unfavorably. One-fourth of a grain adpain is to be measured by the intensity of suffering ministered every four hours for some time would be it produces, and therefore "painful" pains are an attended with grave elements of prognosis. The undoubted evil. As to the means for their relief possibility of a live feetus remaining in the uterus when they are associated, as they usually are, with forty-five days after the escape of the amniotic fluid very slow dilatation, many would prefer chloral in- he considered more than doubtful. Cysts sometimes jected into the rectum to morphia internally, or an- form between the amnion and chorion, and the bursting of one of these may give rise to the idea of the In regard to the process of dilatation of the os, it escape of the amniotic fluid. Hydrorrhea gravidais possible Dr. Richardson has attached too much rum, a condition dependant on a diseased condition importance to the bag of waters as a dilating means; of the decidua, is a more frequent phenomena, and that is the mere passive process, but there is an active will explain many of the cases of supposed rupture

fifteen minutes; dilatation and descent of the child As Dr. Parvin has stated, the

free escape of waters; the pains ceased, ergot was

given without any effect, and as the forceps were strenuously objected to he was obliged to do nothnaturally and a living child was delivered. The unaccountable facts in this case are the widely dilated os, the escape of the waters, and a living child four weeks later.

DR. W. S. STEWART said that sodium bromide is good to prevent premature labor; five drachms may be divided into ten doses and one given every three the focus in relaxed abdomen; when such a patient sean, Mitchell, Warring, Stillé, Ringer, Bartholow, is placed on her back labor goes on rapidly.

lieved by inhalations of chloroform. He has found ous power. its action more satisfactory than that of chloral and results from the local use of belladonna.

ræ with pendulous abdomen.

during the first stage of labor. Of course it must be report is extracted:

used within proper limits.

that his paper was not intended to be comprehensive. sesses far more active properties than is generally His use of morphia extended only to doses of one-supposed, and I have been able to demonstrate by sixth of a grain every four hours, by the mouth, and experiment on the lower animals that, instead of being not hypodermically. In the patient whose history a harmless, inert drug, it is a strong nervous sedative, he had given, intermittent fever was developed later anodyne and soporific, and in over-doses, a dangerous on, and he has not the slightest doubt of malarial narcotic poison. A policeman, attracted by the sound poisoning being the cause of the untoward symptoms of a falling window and other suspicious noises produring and after labor; there was no fever, no rise ceeding from a gentleman's office, entered the room of temperature, and therefore septicamia is exclude to ascertain the cause. He found no one present but ed. There can be no question as to the retraction a boy, who was lying unconscious on the floor. He

(To be concluded.)

#### CHICAGO GYNAECOLOGICAL SOCIETY.

After an interval of four weeks labor came on Stated Meeting, Friday Evening, Nov. 27, 1885.

THE PRESIDENT, DANIEL T. NELSON, M.D., IN THE CHAIR.

DR. JOHN BARTLETT read a paper entitled

REMARKS ON THE TOXIC PROPERTIES OF SASSAFRAS.

Sassafras was discovered in Florida by the Spanhours. He has observed in one patient an apparent jards and named by the French in 1562. It was used rupture of the membranes at five months, the fluid by them in association with other native herbs as a coming away with a constant drip; later the flow was remedy for malarial diseases. Though occasionally greatest at night; this condition lasted for six weeks, prescribed in combination in rheumatism and syphilis, when it terminated in premature labor; the focus and regarded as possessing diuretic, diaphoretic and was living. The fluid which came away was exam- tonic properties, it has fallen into disuse. So that by ined and seemed to be amniotic. He also has ob-referring to such books as were within my reach, served retardation of labor from falling forward of namely, Motherby, 1785, Parr, 1809, Eberle, Trous-Phillips, Wood, Fluckeger, Farquharson, Brunton, Dr. Chas, M. Wilson remarked that hydrorrhead Wormly and Blyth, and the U.S. Dispensatory, gravidavum is more frequent than is supposed, and National Dispensatory, Christison's and King's Disis mistaken for premature discharge of the amniotic pensatories, I can find no mention of the possession fluid. Rigidity of the os uteri is most quickly re- by sassafras of any decided therapeutical or noxi-

More than twenty years ago Dr. Thomas, of Tennsodium bromide or ether, and safer than morphia, essee, stated that sassafras was an antidote to henbane Postural treatment of early stages of labor is of the and tobacco; and later, in 1870, Dr. Lyle, of Indiana, greatest importance; he would place the patient on declared that he had used the oil of sassafras in a the floor on her knees or haunches, holding by the case of stramonium poisoning with the happiest reback of a chair or post is often useful, as it assists in sults. Dr. Lyle affirmed that sassafras had power to fixing the respiratory muscles. He has not had good destroy all insect life, and was an effectual antidote to the venom of the copperhead snake. In 1883 we Dr. Keating spoke of some experiments he had find that Dr. Hinton claimed that sassafras tea was been making. The patient was first to practice Dr. almost a specific for the rash produced by poison Bonwill's method of inducing partial anaesthesia by oak. Recently paragraphs have appeared in the medrapid long breathing for a time, and then to hold the ical journals, in which it is stated that sassafras is not breath as long as possible. This method was found the innocent agent that it has been supposed to be, to bring on rapid and efficient pains in the multipa- but that in reality it has violent toxic properties. This statement is made upon the authority of Dr. DR. BAER remarked that take it all in all, morphia Charles L. Hill, from whose paper read before the hypodermically is the most valuable remedy we pos 86th session of the Medical and Chirurgical Faculty sess for the relief of pain and rigidity of the cervix of the State of Maryland, in April, 1884, the following

"A case of poisoning by the oil of sassafras, that DR. RICHARDSON, in closing the discussion, said once came within my knowledge, proved that it posof the cervix when the head is already in the pelvis, took him at once to the station-house, where I saw but when the head fits tightly into the superior strait him shortly afterward. The officers had already and the cervix is jammed by it, the pressure upon diagnosed his case as one of opium-poisoning, and the upper sac is greater than upon the lower, cut off were vigorously striving to keep him awake by walkfrom it by the head. Chloroform is more efficient ing, flogging and such other means as are usually rethan any other agent he had used, but it was not always to be preferred.

His stupor was profound and he no longer made an attempt to walk, but was literally dragged about in their efforts to

fort except a sense of weakness and exhaustion, and vermin. was soon able to give the following account of himserved when a small quantity was thus taken, was a abortive effect. slight convulsive movement, which was repeated at

convulsive movement that would jerk the head and hours all was quiet in utero. their side with each convulsion and regain their feet immediately, only to repeat the same movement.

With cats and dogs the result was somewhat different. knowledge or experience of his own. A study of the

revive him. He spoke occasionally, but only to beg puted nine lives of the animal had been reached, as them to allow him to sleep. He was in a condition the next day she turned up none the worse for the of great relaxation; skin covered with a profuse per- experiment. A full-grown dog was paralyzed in his spiration; countenance pallid; pulse rapid, but weak hind legs by a similar dose hypodermically over the and thready. His pupils were normal, and there was loins, but it recovered. Many other experiments a strong odor of sassafras in his breath. As quickly might be adduced, but I will not trespass on your as possible an emetic was administered, which pro- time. There is one other property possessed by this duced a copious emesis, redolent with the odor of drug that is worthy of mention—it is a germicide sassafras, with drops of the undissolved oil floating in and anti-ferment of no mean quality. In some the liquid. This was followed by free draughts of clumsy experiments made by myself I have estimated warm water, until only a faint odor of sassafras was its potency in this field as about one-half the strength discoverable. The vomiting relieved him and he was of carbolic acid. It has long been used as a domessoon restored to consciousness. He felt no discom- tic remedy for the destruction of lice and other

For some years past I have had an intention of self: His employer having gone home, he was pre- bringing before the profession reasons, rather feeble paring to close up the office, when he espied a bottle it must be admitted, for the supposition that the of the oil of sassafras which had been left on the medicine under consideration has marked potency desk. Remembering that sassafras had been recom- in a direction, so far as I know, not suspected by mended for the removal of an eruption that disfigured medical men. Up to this time the declaration on his face, he thought this a good opportunity for giving it a trial, and turning up the bottle—to use his of questionable power, and the fact that it is hawked
own language—he took two large swallows of its about the streets and used freely as a tea all over contents. In a few minutes he began to feel very the country, have caused me to refrain from bringing stiff, as he expressed it, but proceeded to close up before a scientific body my limited experience presthe shutters preparatory to leaving for home. He ently to be detailed. But the recent declaration raised the window for this purpose, but had not that this drug possesses toxic properties may justify strength to hold it in this position, and it dropped me in making the following statement: Years ago from his grasp, and at the same time he fell to the I was called to a woman among the poorer classes, floor unconscious. This suggestive case led me to of good intelligence and education, who was having make numerous experiments on the lower animals, a miscarriage. Upon my inquiring as to the cause with very interesting results. Ten drops of the oil of the mishap, with a prefatory reference to her powere injected hypodermically under the skin of a erty and already large family, she stated that she mouse. The animal quickly succumbed and died had induced the abortion herself—that she had do ne convulsed. By repeated experiments I was able so so on previous occasions. She had employed, she to regulate the dose as to get the characteristic effects of the drug without causing the speedy death was surprised that I did not know of the property of of the mouse. A glass rod was dipped into the oil sassafras as an oxytoxic. She spoke as if all her and held in front of the mouse, and he seized it with friends knew how to use it as an ecbolic, and she his mouth. This was repeated at intervals of a few evidently looked upon it as a specific. Tea, she minutes, until a sufficient quantity was taken to pro- said, made from four or five pieces of the root, as duce the desired effect. The first symptoms ob- large as the thumb and twice as long, would produce

A year or two later I was called to a woman two mervals of a few seconds, and agitated the animal's months pregnant. For several days she had had body very much like a severe hiccough. This grad-ually increased in severity, the movements became ter that arrest of the process was doubtful. I found more unsteady, the body more arched, and the limbs the patient very anxious to have a child; she disso stiff that the mouse stood on tiptoe. It was noted claimed the intention of inducing abortion, and to that the one idea of escaping from the trap still pre- all my inquiries as to a possible cause of the hæmordominated over all else, as he continued to climb up rhage, she gave answers which left me no further on the bars of the cage, only to fall on his side or question except this: "Have you been drinking back at each convulsion, until no longer able to rise. sassafras tea?" Surprised, she replied that for a week I have repeated these experiments many times past she had used it at breakfast and supper. The with great uniformity of result. Sometimes they proper remedies for her condition were prescribed, would dance about for half an hour, with a peculiar the possibly offending tea left off, and in twenty-four

A drachm under the skin of a cat caused such profound toxic effects of sassafras as reported by Dr. Hill, and insensibility that she was supposed to be dead, and here suggested, would seem to show a triple resemthrown away, but it seems that only one of the re- blance to three familiar articles, opium, strychnine and ergot. In its action as a narcotic and sudorific pox a large increase of from 163 per million living to ably very much earlier.

spinal cord, supplying the uterus.

for uterine disease.

THE PRESIDENT inquired as to the chemical con-

stitution of the volatile oils?

Dr. H. P. MERRIMAN replied that many of the volatile oils were identical in chemical relations, but differed in physical properties. Such oils were isomerides. The essential oil of lemons, of bergamot, neroli, lavender, pepper, camomile, caraway, clover, pears that the annual deaths per million living, from etc., are isomerides of the oil of turpentine.

of the turpentine group, he could not say. Oil of of continued fever, from 885 to 484; those from

DR. H. T. Byford was of the opinion that the oil of sassafras exerted its influence locally upon the alimentary canal and pelvic viscera, through which it centres, as in the case of ergot. This would account certificates. Diphtheria is probably less liable than for its popularity as an emmenagogue, mentioned by formerly to be confounded with other forms of fatal Dr. Sawyer. He had recently given one drop, comhours, for two weeks, in case of typhoid diarrheea. Slight strangury, disappearing with the discontinuance has increased. The report contains much valuable of the drugs, was produced.

(To be concluded.)

# FOREIGN CORRESPONDENCE.

#### LETTER FROM LONDON

FROM OUR OWN CORRESPONDENT.)

Mortality from Zymotic Diseases in England-Overcrowding among Workmen-Nitrite of Amyl in Opium Poisoning-An Attack on Pasteur-A New Lead Battery.

During the past ten years in England, there apcough has remained stationary, and that from small-quality of the sanitary administration, partly to the

it resembles opium. In its property of inducing 236 per million. This increase is due to the very tetanic and clonic spasms, followed by paralysis, it is serious outbreak which marked the two first years of similar to strychnine. In its power hinted at of ex- the decennium, 1871 and 1872, and which led to the citing the uterus, it may be linked to ergot. It may appointment of compulsory vaccination officers by be of interest here to call attention to the fact that boards of guardians, and consequently to a more the first reference to the use of ergot as an ecbolic stringent enforcement of infant vaccination. If, was made by Stearns in 1807, whereas it had been however, the statistics of small-pox are given by what used by midwives certainly as early as 1688, and prob- Dr. Ogle calls natural periods, that is, by periods which coincide with successive improvements in the Dr. JAMES H. ETHERIDGE, referred to the action enforcement of the vaccination acts, it becomes manof the oil of sassafras on the motor centres in the ifest that there has been a gradual and notable decline in the mortality from the disease. It may be further Dr. EDWARD WARREN SAWYER said in New Eng- shown that this decline is due to diminished mortalland sassafras was a popular emmenagogue. Mothers ity amongst children of tender age, while the mortalwere in the habit of giving decoctions of sassafras and ity at later periods of life has actually increased, and tansy to their daughters in case of delayed or sup- has increased in proportion to the age attained. The pressed menstruation. Many of the essential oils pro-explanation seems to be that when regarded by the duced the effects ascribed to sassafras by Dr. Bartlett. | light of long experience, vaccination confers an im-In the South, oil of sassafras was a popular remedy munity from small-pox which is as real as, but less permanent than, that conferred by small-pox itself; so that the protective influence of the former requires to be renewed from time to time. This precisely coincides with the results which have been recently set forth by the German Commission appointed to inquire into the subject.

Taking the other principal zymotic diseases, it scarlet fever, have fallen from 972 to 716; those from Oil of sassafras was an isomeride; whether or no fever, including typhus, enteric and ill-defined forms turpentine was a hydrocarbon, possessing the formula diarrhea, from 1076 to 935; those from phthisis, from 2475 to 2116; and those from diphtheria, from 185 to 121. Under the two last headings, however, there is some uncertainty as to how far the improvement may be only apparent and due to more exact was excreted, rather than upon the uterine nervous statement of the causes of death upon the medical croupous affections; and phthisis is less liable to be bined with one-half grain of piperin, every three confounded with other forms of diseases of the respiratory organs, under which latter heading the fatality information with regard to the mortality produced by many other diseases. It may be mentioned that the deaths of women in childbirth have remained practically stationary for the last thirty years, and that they amount to something less than five for every

thousand children born living.

The total death-rate during the ten years, 1871 to 1880, is 21.27 per thousand, varying in different localities from 14.13 and 33.57 per thousand. Among the 647 districts into which England and Wales are divided, there were eight in which the mean annual rate was under 15 per 1000, 31 more in which it was under 16, and again, 62 others in which it did not exceed 17. These 101 districts are described as the "selected healthy districts," and form a useful standpears, from the decennial report just issued by Dr. ard for comparison. In 326 other districts, the mean William Ogle, of the statistical department of the annual death rate was between 17 and 20, in 190 it General Registry Office, to have been a most satis- was from 20 to 25; in 23 from 25 to 30, and in the factory falling off of the mortality due to the various remaining two it exceeded this high figure. Dr. Ogle zymotic diseases, with the exception that whooping attributed these differences partly to difference in the different density of population, and partly to unwhole-conductor, preferably of lead or carbon, coated or

some occupations.

Mr. Middlewick, in a paper read before the among other points, the subject of overcrowding as mingham. the result of a necessity for the workman to live near his work, and urged the remedy which has been so much discussed, of the extension of living ground out of London by the installation of a regular system of workmen's trains. Previous evidence in regard to this point shows that it is very doubtful whether this system would be accepted by the mass of artisans, or whether it could be made to pay. Mr. Middlewick also attacked the "model dwelling" system, on the ground that the rents were too high in such buildings connection with them in comparison with the number of children who lived in them. The latter stateformer inextricably. ent to their means.

ultimately restored the patient,

whose equanimity, however, is not disturbed. week or so ago it printed a sensational paragraph general mass of the profession? concerning a tragic incident which it affirmed had and the case, evidently, cannot be accepted as furnishing a proof against the value of the distinguished objections. savant's theories.

authors use lead in place of zinc, as the positive ele-ment, which is easily reducible from most of its com-an equal force, in laparotomy for other common

kept in contact with a layer of peroxide of lead.

The honor of knighthood has been conferred on Association of Public Sanitary Inspectors, took up Dr. James Sawyer, the well known physician of Bir-G. O. M.

# DOMESTIC CORRESPONDENCE

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

The Indications jor Laparotomy in Penetrating Stab and Shot Wounds of the Abdomen-Vaginal and Vulvar Enterocele.

The last meeting of the Surgical Section of the and that there was very little recreation ground in Academy of Medicine, held December 14, was one of unusual interest. The subject for discussion was,
The Indications for Laparotomy in Penetrating Stab ment is certainly true, but it is connected with the and Shot Wounds of the Abdomen, and several prom-The aim of most people who inent surgeons and gynecologists took part in the promote model dwellings is to make them remunera-debate. It was opened by Dr. Joseph D. Bryant, tive at as low rents as possible. If more ground is who went over the ground more carefully and systaken, rents would be proportionately higher, unless tematically than any of the other speakers. Taking the buildings are to become a mere charity estab- for his text the dictum: "Laparotomy should be perlishment for finding people homes at rents conveni- formed in all cases and immediately after the accident," he said that he who unconditionally asserts The following case, in which nitrite of amyl was that any operation or method of procedure should used as an antidote to opium, will doubtless be con-be performed in all cases, even though it be a meas-sidered sufficiently important to lead others to try the ure accepted by the profession generally, takes a same treatment in desperate cases of opium poison- position which requires, in justice to the profession ing. The case recorded is of a person who took two and the patient, that all operators should be compeounces of laudanum, and showed every symptom of tent and well equipped for its performance. Espeopium poisoning—coma, small pulse, feeble and in- cially was conservatism necessary in the advocacy of frequent respiration (six to the minute), coldness and an operation the propriety of which, as yet, is spoken cyanosis. Belladonna proved useless, while inhala- of by many with doubt commingled with dread. Few tion of nitrite of amyl immediately improved and indeed were the hospitals in the city of New York which could "immediately after the accident" offer M. Henry Rochefort is never happy for a long the recognized facilities necessary to dispatch and time, if some one, or some thing, is not attacked in cleanliness in operating; not to mention other cirhis organ. This paper has made itself remarkable by cumstances bearing on the success of the procedure. the acerbity with which it has attacked M. Pasteur, How much less properly prepared for the performance A of laparotomy would the unfortunate patient find the

He thought it well to divide the dictum referred to just occurred in Paris. A child six years of age who into three interrogatories, and the first was, Should had been bitten by a mad dog was placed by her laparotomy be performed in any case! It could not parents under M. Pasteur's care; and, as the paper be denied that laparotomy in connection with various asserted, had lost her life in consequence of his abdominal growths was a fully established operation, treatment. As a matter of course, the absolute cor- and there was no proof, so far as he knew, that the rectness of the story was vouched for, defying M. peritoneum of the male was not as tolerant of man-Pasteur to contradict it. It turns out, however, that ipulations as that of the female. Again, the success it omitted to state the real truth, which very mate of Billroth and many others in operations upon the rially alters the circumstances of the case related, stomach, pylorus, kidneys, etc., fully showed that The little girl placed under M. Pasteur's care met intolerance of the peritoneum could not be considwith the accident which proved fatal six weeks be ered as a rational objection to laparotomy; while fore he was consulted. The dreaded malady-hydro these operations showed also that neither could the phobia—had consequently time to develop itself; length of time required nor the great extent of raw surfaces resulting in many instances be urged as

Among the practical elements which at the present A new medical battery has come out, in which the enter into a case of laparotomy for penetrating pounds. As the negative element, they employ a causes, he mentioned the following: (1) A doubt

whether the abdominal viscera were injured. Although orrhage or intestinal extravasation existed. If the could at once be set at rest by an exploratory incision. the blood could be seen in the abdominal cavity (2) Existing shock. He believed it to be an establishment through the opening. In conclusion, Dr. Bryant patient. It was impossible to avoid such circum- atory incision. stances entirely; but their dangers could be greatly cerned, appeared to be the only means of saving to do the work with accuracy and dispatch.

otomy be performed in all cases to be discussed by of Carpenter, the murderer, who stabbed himself in others, he passed on to the third, If hen contemplated, the abdomen. should it be done immediately after the accident? As-

this doubt, at best, could exert but little influence, it patient were in danger from immediate hæmorrhage, lished fact that when severe shock follows immediasked, Does the exploratory incision expose the patient ately after the injury it is due, in the great majority to unusual dangers? The large number of successful of instances, to loss of blood; and if this were the laparotomies both in this country and abroad seemed case, the indication was to check the hemorrhage at to him to answer this question in the negative, and once. An exploratory incision would decide this ques- if this were true, he said, all that was possible was tion also. (3) Unfavorable surroundings of the gained; while but little could be lost from the explor-

Dr. J. Williston Wright said he was not prepared lessened by caution in moving the patient, by taking to take the ground that all cases of penetrating wounds at once to a suitable hospital, instead of his own of the abdomen were to be treated by laparotomy. home, and by increased familiarity on the part of the As regards gunshot wounds, it would be found that profession with all the details pertaining to the proper the large or small size of the missile, as well as the performance of laparotomy. (4) Unskilled operators. velocity of the latter, made a great difference in the This element could be altogether overcome if the severity of the injury. Dr. Wright facetiously exmembers of the profession would only devote a reas- pressed his contempt for the ordinary 22-calibre reonable amount of attention to this important subject. volver bullet by saying, that if any one were to shoot (5) Greater exposure of the abdominal earlity and its him with one of these balls he should feel it his duty contents. (6) Existence of hæmorrhage. The vessels to go across the street and kick the individual firing of the omentum and of the intestines, especially the the shot. As a rule, such a bullet lodged in the former, bled with unusual pertinacity, and the suspi- abdominal walls; but even if it did penetrate the cion of the existence of much intra-abdominal ham- cavity and pass through a knuckle of intestine, the orrhage was enough to indicate the making at least of opening made by it was so small that an eversion of an exploratory incision. (7) Extravasation of intes- the mucous membrane was caused, which would be tinal contents. This was the strongest of all the indications for laparotomy, which offered, indeed, the while the hæmorrhage would be but trifling. But if, only chance of recovery; and here again, when such on the other hand, he were called to a case in which a condition was simply suspected, the exploratory the injury had been inflicted by what is known as an incision was called for to determine the question. "express charge"—a 40-calibre bullet weighing 270 (8) The greater difficulty of cleansing the abdominal grains, with 110 grains of powder behind it—he would cavity. If blood and intestinal contents had been expect to find abundant indications for the performgenerally diffused, the cleansing of the abdominal ance of laparotomy; and even in the absence of cavity was more tedious and difficult, and also of symptoms, he would consider the case one for immegreater importance, than in laparotomy for other diate operation, because he would feel very sure that causes; but the thorough performance of this duty, if such a missile got into the abdominal cavity at all, at least so far as the intestinal contents were con- it would cut and tear everything that came in its way.

In stab wounds he said he would not perform lapthe patient's life. As to blood, no one could tell the arotomy in many cases, even if he knew that the amount that might remain, and yet recovery take wound were a penetrating wound, or even if the place. In Dr. Bryant's opinion, laparotomy was omentum were protruding. In this connection he a justifiable operation in penetrating abdominal mentioned the case of an intoxicated sailor who wounds; but it was not to be attempted, even in stabled himself in the abdomen, and when a portion so-called favorable cases, unless the operator could of the omentum protruded through the wound, caught avail himself of many of the recognized means of hold of it in his drunken folly and dragged it still procedure and was sufficiently familiar with its steps further out. Yet the man recovered perfectly, and that without being laid up for an hour. He also Leaving the second interrogatory, Should lapar- mentioned a somewhat similar case at Bellevne, that

Dr. R. F. Weir said that in penetrating wounds, suming all things to be equal, he thought that it should unless there were symptoms indicating injury of the be done at once, or at least as soon as the necessary intestines or abdominal viscera, he did not think it preparations could be made. In most cases there was advisable to interfere. With gunshot wounds, should first be an exploratory incision, and then this however, the case was different, and he did not hesishould be followed, if the condition of affairs war- tate to acknowledge that he had more respect for the ranted it, by the actual laparotomy. In the former small bullet than Dr. Wright. As a rule, one of the the incision was made in the median line, so situated indications was to explore the wound under any cirand of sufficient length to expose to view the prob-cumstances, and he thought that statistics clearly able seat of the internal injury. The surgeon could proved that every gunshot wound of the abdomen at then, in the great majority of instances, determine if short range should be carefully examined in order to penetration of a viscus had taken place, and if hæm see whether it penetrated the cavity. If there was

shock which did not proceed from hæmorrhage, it tient's life miserable; though he said that he still felt was best to defer laparotomy until this had passed; somewhat apprehensive of the future. The tumor due to hæmorrhage or not.

Dr. W. M. Polk said that the exploratory incision, attention to this department frequently had to make and did not interfere with parturition, was usually would be sufficient in the class of cases now under discussion. If it was necessary to introduce the hand influences, however, occurring during labor, as well

tation in opening the peritoneum in any case where symptoms which were then apt to develop were: the patient's life was in question. There was very Difficulty in locomotion, pelvic tenesmus, dragging little danger of increasing shock thereby, and if the sensations, tendency to constipation, and, in time, shock was due to hæmorrhage, which was very likely vomiting. Should the accident complicate parturito be the case, the prompt performance of laparotomy tion, obstructed labor was apt to result. Upon vagwas urgently demanded for the purpose of checking inal examination a tumor of greater or less size was this. One of the principal dangers was from septic found in the vagina, and was diagnosticated by the infection, and after performing operations in the absolute performance of his properties of the purpose latter with a solution of bichloride of mercury, 1 to ling to the finger, if not to the ear; increases upon hot water.

said, to note how very generally these varieties of tioner's being too confident, too much off his guard. hernia have been ignored in the systematic treatises; and too little inclined to consider the possibility of and this was the more remarkable since errors in their a mistake. If he approached these cases calmly, diagnosis were very liable to occur. Of raginal philosophically, and in a proper spirit of diagnostic enterocele he said that it consisted in a descent of the investigation, it was very improbable that the nature intestines into the pelvic cavity, either in front of or of the trouble would be misunderstood. In certain taking place obliquely. A tumor finally formed in consequence of some tranmatic influence destroying the vaginal canal, inverted one wall of that canal the continuity of this canal in its upper part, and he more and more completely, and might end by escap-related two such cases which had come under his ing from the vulva and hanging outside the body, as own observation. a complete prolapse of the bladder or rectum would Pudendal hernia demonstrated its existence by do. Under these circumstances it was evident that the presence of an elastic tumor about the middle of the tumor which protruded had for its component the labium majns of one side. Having explained parts (1) the inverted vaginal wall, (2) the peritoits mode of origin, he said that from inguinal hernia
neum, and (3) the intestines. Later on in the paper ending by descent into one of the labia majura the
Dr. Thomas related a very remarkable case which internal variety might thus be distinguished: (1).
had lately come under his notice, in which such a The finger, pushing the tumor upward, will pass into vaginal hernia hung down to the middle of the thigh, the pelvic cavity between the ischium and vagina. and in which, on account of the extreme sufferings (2). At the level of the os uteri, or thereabouts, it of the patient, which had lasted for a number of will enter the pelvic roof. (3). Pressure being mainyears, he was induced to perform laparotomy. When tained on the inguinal canal, and the patient being the abdominal walls had been cut through, an assist-ant in the meanwhile pressing the tumor up in the recur. The following conditions are mentioned as pelvis, he found, on a line with the symphysis pubis, liable to be confounded with pudendal hernia: Cyst a large soft tumor, which had probably been the or abscess of the vulvo-vaginal gland; abscess of original source of the trouble. This he removed, labium majus; fatty or fibrous tumors of the labium; and the patient made a good recovery. Five weeks had now elapsed, and there had been no return of of the labia should be very carefully considered; for

but he agreed with Dr. Bryant that it was best to removed was examined by Dr. H. C. Coe, the pamake a small exploratory incision in every case where thologist to the Woman's Hospital, and he expressed it was impossible to decide whether the shock was the opinion that it was probably an unusual growth of the pelvic connective tissue.

Unquestionably the greatest danger attending vagas practised in gynecological surgery, was a very inal, as well as pudendal and perineal hernia, arose simple affair, less free from danger than the opening from the possibility of an error of diagnosis on the of the pleural cavity; but he doubted whether such part of an impulsive or unwary surgeon. Vaginal a very simple incision as those who confined their hernia, as long as it remained in the pelvic cavity, and feel around among the intestines, a great deal as in the non-parturient state, such as pressure from was added to the risk; and the more the intestines the feetal head, inflammatory processes, feetal impachad to be handled, the greater the danger would be. tion, torsion of the contents of the sac, or the exist-Dr. W. Gill Wylie said that he would have no hesi- ence of a neoplasm, strangulation might occur. The 10,000, following this with the injection of simple the patient's coughing or straining; yields resonance upon percussion; and is very generally reducible if At a general meeting of the Academy held De- the patient is placed in the knee-chest position and cember 17, Dr. T. Gaillard Thomas read a paper on efficient taxis is practiced. Error in diagnosis was Vaginal and Vulvar Enterocele. It was curious, he likely to occur, Dr. Thomas said, from the practiposterior to the broad ligament; this descent always rare instances acute vaginal hernia occurred as a

the symptoms which had formerly rendered the pa- if an erroneous diagnosis were made here, a fatal issue

would probably be the result. The diagnostic signs contains but a few of the members of the previous which proved most reliable, and which might almost committee, and is composed mostly of unknown and be styled pathognomonic, were these: (1). Airy insignificant physicians, who inspire no confidence in feeling upon palpation; (2), gurgling upon replace- their capacity for conducting the Congress." ment; (3), diminished tension in the dorsal decubitus; (4), diminution of bulk upon taxis; (5), reson- no better than to confound "the well-known Surgeonance upon percussion; (6), succussion upon coughing; (7), intestinal pains of colicky character.

hernia. This might affect both male and female, and in the latter it consisted of the descent of the intes- insignificant physicians." To it they doubtless are tines between the vagina and rectum, the advance unknown. But what shall be said of both the Medbeing made posterior to the broad ligament, and con- ical Record and Medical News, which reproduce this tinuing until the perineal muscles are forced apart, statement about "the well-known Surgeon-General and the gut, with its peritoneal envelope, was arrest- of the Army" (and not for the first time) without ed by the skin. All these varieties of hernia were contradiction? usually readily amenable to taxis, and this he had invariably found to be greatly facilitated by the kneechest position. In some rare cases strangulation occurred; and under these circumstances the same surgical practice was indicated as in inguinal or crural hernia, viz., cautious opening of the sac, and section of the constricting band by passing up a probe-pointed bistoury.

In conclusion, he remarked that, unfortunately, little could be said concerning the treatment of vaginal or vulvar hernia, for the reason that there was but one variety, the pudendal, for which very much could be done. That variety was amenable to treatment by the ordinary truss, as inguinal hernia was. The other varieties could to a limited degree be relieved by pessaries, perineal pads, abdominal bandages, etc.; but we were poor in methods of decided relief, and utterly wanting in those of cure. It appeared to him that the plan suggested and partially carried out in the case of vaginal hernia which he had related promised more than any other which had been brought forward; but of the validity of this promise time and experience would have to give the proof. He was certain that if another case of large vaginal hernia should present itself he should feel inclined to try laparotomy; dragging up the sac, and fastening it in the al:dominal wound.

#### THE INTERNATIONAL CONGRESS.

TO THE EDITOR OF THE JOURNAL:

Dear Sir.—According to the Medical News (of Philadelphia) of December 26, "The Medical Record gives the following editorial note from the St. Petersburg med. Wochenschrift, of Nov. 21: 'The prospects of the next International Medical Congress, which was to meet in 1887, in Washington, have lately, in an unusual manner, been put in jeopardy. The original Organizing Committee, of which, as announced by us in previous communications, the wellknown Surgeon-General of the U. S. Army was Secretary-General, and to which the most distinguished McIntosh, W. P., Asst. Surgeon, granted leave of absence for fourteen days. Dec. 22, 1885. American physicians belonged, has been retired. This was accomplished through the intrigues and hostility which developed at the last annual meeting in New Orleans. At this time a new Committee was appointed, under the Presidency of a Dr. Shoemaker, of Philadelphia. This new organization committee

When the St. Petersburg med. Wochenschrift knows General of the Army" with the officer who was the Secretary-General of the committee of seven, it pub-Dr. Thomas then went on to speak of perineal lishes the value of its condemnation of the new committee as "composed mostly of unknown and

#### MISCELLANEOUS.

THE PHILADELPHIA POLYCLINIC.—The new building for the Philadelphia Polyclinic College on Broad Street will soon be ready for its occupants. The building will contain more hospital wards and private rooms for pay patients, and the dispensary service will be given more attention.

Poison in Georgia.—A new law in Georgia enjoins that poison must be put up in scarlet wrappers and the bottles labeled with paper of the same color, the printing to be in white letters. "Of all the hard papers to find in market," says a wholesale druggist, "scarlet is the most difficult, and printers say they cannot print in white upon such a surface. The lawmakers have hit upon an extremely difficult problem for the druggists."

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SFRVING IN THE MEDICAL DEPARTMENT. U.S. ARMY, FROM DECEMBER 26, 1885, TO DECEMBER 31, 1885.

First Lieut. Thos. J. C. Maddox, Asst. Surgeon, killed Dec. 19, 1885, in affair with Apaché Indians, near the White House, New Mexico.

Asst. Surgeon F. J. Ives, ordered to report to commanding offi-cer District of New Mexico for duty in the field. (S. O. 127, Dept. Platte, Dec. 23, 1885.)

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S. MARINE HOS-PITAL SERVICE FOR THE THREE WEEKS ENDED JANUARY 2, 1886.

Purviance, George, Surgeon, to proceed to Chicago, Illinois, as inspector. Dec. 23, 1885.

Guitéras, John, Passed Asst. Surgeon, to proceed to St. Louis, Missouri, for duty. Dec. 23, 1885. Granted leave of absence for seven days. Dec. 26, 1885.

Urquhart, F. M., Passed Asst. Surgeon, to proceed to Charleston, South Carolina, for temporary duty. Dec. 23, 1885. Bratton, W. D., Asst. Surgeon, granted leave of absence for twenty-two days. Dec. 22, 1885.

Guitéras, John, Passed Asst. Surgeon, upon expiration of leave of absence, to re-assume charge of the Service at Charleston, S. C. Dec. 29, 1885.

Fattic, J. B., Asst. Surgeon, appointed an Assistant Surgeon, Dec. 28, 1885. Assigned to duty at Baltimore, Md., Dec. 29, 1885.

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No. 3.

# ORIGINAL ARTICLES.

FIVE CASES OF PELVIC CELLULITIS TERMINATING IN ABSCESS,1

BY AUGUSTUS P. CLARKE, M.D.,

OF CAMBRIDGE, MASS.

I have had several cases of pelvic cellulitis terminating in abscess. The cases in the non-puerperal state have usually resulted in resolution, but this has not been the invariable rule. The most obscure and difficult to diagnosticate have been those of a chronic type, or cases in which the constitutional symptoms were less pronounced, or cases in which pain was one of the leading symptoms. Cases have occurred in which the urinary symptoms were at first the most troublesome. Cases have occurred in which there was pain in the region of the hips, knees, an anxious countenance, chills, marked increase of temperature and of the pulse, alternations of sweating and partial recovery.

In some cases careful vaginal examination at first failed to reveal the true cause of the symptoms. This was so particularly in the case of Mrs. G. F. S., aged 30 years, married, but who never had had a living child. At the time I was called Mrs. S. had been married five years; she became pregnant, but miscarried at the fourth month. Husband was of a healthy constitution and of regular habits. I was first called on April 28, 1876. Mrs. S. complained of some pain in the region of the bladder and in the left groin. She was sitting up. She had had chills, but thought they were due to her sore throat-a slight attack of tonsillitis. Next day, the 29th, the patient was better as regards her throat, but commicturition. The urine showed no indications of having occurred in the left broad ligament. renal trouble. There was a dragging sensation at the umbilicus. On April 30 there was more pain in the S. had another attack after exposure during a drive bladder and great pressure felt in the pelvic region; there was some discomfort extending from the iliac region to the loins and to the umbilicus, and through the perineum and to the lower extremities. A careful vaginal examination failed to disclose any marked or characteristic localized point of tenderness. This examination was made on May 1. Subsequent examinations were made May 2, 3 and 4, but the appearances were not as yet well-marked.

The pain and urinary trouble, with very moderate

constitutional disturbance, were the leading characteristics. On May 5, 6 and 7 the pain in these parts was complained of as intolerable. There were occasional chills, and each chill was invariably followed by profuse sweating. Large and frequent doses of morphia were required. The diagnosis was pelvic cellulitis with a probable formation of abscess. There was, however, no fluctuation nor any marked swelling, but at times, by careful manipulation and firm pressure with the finger, I could elicit greater tenderness behind the uterus than in any other place. Patient stated that she had been through a similar ordeal a year and a half before, but that there was no pus observed as occurring in that attack; that she was treated from time to time by an experienced physician, and was seen later in consultation by one of the leading members of the Massachusetts Medical Society; that her case at that time was not regarded as an abscess, but as a kind of uterine nervous affection.

My visits were continued and the symptoms were essentially the same until May 16, when a small amount of purulent matter was found on vaginal examination, but no pain was discovered where it had been discharged. The patient's symptoms were now easier, and by June 10 she was able to be up and about her house.

On July 15 I was again called, and found that all of her old symptoms had again returned. The pain, chills and sweating were the main symptoms. She continued to suffer until July 30, when she began a speedy recovery. During this attack there was no positive proof of suppuration, only a little mucopurulent discharge which could be seen by very careful vaginal examination. The uterus was not flexed, but was movable, though the cervix was drawn plained of her back, and of some disturbance in to the left side in consequence of the inflammation

On March 30, 1877, I was again called, when Mrs. in inclement weather. She had just passed through her menstrual period when this attack began. This attack lasted until May 16, when she was quite

The next attack began in August following. 1 was called on August 17. This lasted until August 25, when she was able to be up and about the house. During all these attacks subsequent to the first described, very little pus was seen, but the symptoms were essentially the same as at first. There was no point discovered where pus was discharged, but it

was believed the pus escaped from the posterior great difficulty in making a satisfactory vaginal ex-"cul-de-sae" or from behind the uterus. Most that amination, owing to the narrow and unyielding state could be seen by careful vaginal examination with a of the vagina. The patient quickly recovered, mar-Sims's speculum was a small amount of purulent ried, and became pregnant; but before the close of matter in the vagina and posterior to the cervix. her term she was seized with uramic convulsions. I There was, however, no cervicitis nor any laceration succeeded in effecting an early delivery, but the case nor ectropion of the cervix. There was no large terminated fatally. The cervix, after recovery from tumor indicative of a great collection of pus, but the the cellulitis was drawn to the right, owing to the length of the time during each attack, the chills, the inflammation in the right broad ligament. This case sweating, the high temperature, which often reached was evidently caused by a pelvic hæmatocele occur-103 F., and the pain and general disturbance of the ring immediately after menstruation, that instead of whole organization indicated suppuration. Such, in being absorbed, the mass softened and became purufact, was my diagnosis as expressed to the patient lent. The pus was so perfectly discharged that and her family.

After recovering from this attack she remained well tient had never suffered from an abscess of the pelvis; of bearing down and pressure on the rectum. diagnosis.

which occurred soon after marriage.

bed for several days previous to my first visit. She tially comfortable. had suffered from a severe exposure during a wet day of full doses of opium.

by the vagina. The opening occurred somewhat behind the uterus, but more to the right. There was abscess had contracted and cicatrized, and the uterus

operative interference became unnecessary.

Case 3.—Another patient I was called to attend as usual until some time after—the middle of April, on April 29, 1883. Her age was 42 years, and she 1878, when she was again seized with her old symp- was the mother of three children, and had been toms, but having removed from Cambridge, she was married seventeen years. The youngest child was induced to call in an eminent surgeon of the Boston | 12 years old. She had never before had any severe City Hospital. This surgeon saw the patient several sickness, and had recovered well after each time of times until May 4, when I was again called to take confinement. Never had suffered from laceration of charge of the case. The patient was a great sufferer, the cervix uteri, nor of the perineum. At the time On my first visit the nurse informed me that her pre- I was called she was suffering a good deal from tenvious medical attendant wholly disagreed as to my derness about the uterus, and from severe pelvic diagnosis, and stated that it was his opinion the papain. She also suffered from dysuria, and a feeling that there were no indications of the formation of she had been troubled from the presence of hæmorany pus, though in his examination of the patient he rhoids or from irritation about the lower portion of did not make use of the speculum as an aid in the the rectum, it was hoped that by the application of ligatures to the bleeding piles and by rupturing the May 6, by the help of Sims's largest speculum, and sphincter and the patient would make an early reby the advantage of good sunlight, I was fortunate covery. This operation only gave temporary relief, enough, with the assistance of the nurse, to discover for after a short time her former symptoms returned the point where fluctuation appeared. By means of with increased violence. She had severe pain, frea small trocar and bistoury I let out a large amount quent chills, followed by high temperature, which for of fetid pus, to the patient's speedy and great relief. several days maintained points varying from 101° to There was never any escape of pns into the rectum. 103.5° F. She also suffered greatly from exhausting The patient subsequently removed from the vicinity sweats. The patient became so reduced for a while of Boston and thus wholly passed from my care, as to resemble a person in the advanced stage of I learned that she suffered from a subsequent attack, phthisis. She was confined to her bed, and was able but have had no special knowledge of the sequelæ to take but little nourishment. The uterus was imof her case. The cause of this case was no doubt a movable, and the whole pelvic vaginal roof became pelvic hæmatocele, or some accident to the perime- hard and unyielding, and gave no indication of a tric cellular tissue during the time of an abortion, point of suppuration. All the while the dysuria was great, and the urine had to be drawn by the catheter. Case 2.—Another case I was called to attend on Pressure on the rectum was bitterly complained of. September 28, 1870. This was an unmarried woman, Heroic doses of opiates in various forms were required Miss L., aged 16 years. She had been confined to for her relief, and even then she was made only par-

This state of things continued until May 30, when immediately after having menstruated, which hap- a swelling appeared just above Poupart's ligament on pened some two weeks previous to my first visit. the right, and I made a free incision down to the pus. Owing to her youth and being unmarried she deferred. The opening continued to discharge for some days, calling in medical aid until the pain became very during which time an ordinary probe could be passed severe. She had suffered from repeated chills, each five inches towards the pelvis. On June 5 fluctuafollowed by a good deal of febrile disturbance and tion appeared behind the uterus on the left; this was general prostration. My next visit was on September incised. Both these openings were frequently washed 29, when the greatest pain was felt in the rectum, with a weak solution of carbolic acid and thymol. Small quantities of the latter were frequently injected. This was controlled somewhat by the administration into the sinuses, and into the pus cavity. The pain at length ceased, and by July 13 the patient was able On October 1 a large discharge of fetid pus escaped to be up on a lounge, and both openings had closed.

August 27.—Vaginal examination showed that the

fully ascended to its normal position.

ligaments. The patient was then free from hæmor- the left. rhoids and had full and easy dejections. She had fully recovered the use of the sphincter ani. She was in her usual good health. She had then left in good health, was regaining her strength, and her the State. The cause of this attack I could not weight was 180 lbs. This attack of cellulitis was fully ascertain, but I believe it must have been in undoubtedly brought on by the presence of internal consequence of an attempt at dilatation of the conhæmorrhoids, and by the tenesmus from a contracted tracted cervix uteri as a means of treatment for the and rigid anus from which she had suffered for sev-stenosis. This lady had been under the care (?) of eral years.

Case 4.—Mrs. R., aged 30 years. I was in attend- to coming under the treatment of Dr. Greene. ance from April 13 to June 27, 1879. In this case there was prolonged constitutional and local suffering. The patient was finally able to be about again, but the uterus was fixed and the cervix drawn to the left. There developed three years ago a marked cystocele and partial rectocele which for awhile I succeeded in some measure in relieving by an inflated rubber-disk pessary. This lady was the mother of two children, but no marked laceration of the cervix or of the perineum occurred during her labors. The cellulitis must have been induced by an attack of gonorrhea contracted from an unfaithful husband. The purulent matter must have passed up into the left Fallopian tube, and there excited the inflammation which produced such disastrous consequences. She never recovered from the pelvic displacements. An operation for ample closure of the vulva was undertaken for her relief in 1884, but this was only have reached certain conclusions as to its beneficial partially successful, for the united surfaces of the and its baneful effects on the central nervous system, labia were constantly irritated by the continual dis-that I propose to present for discussion in this paper. placement of the organs downwards. The patient I say beneficial and baneful effects, for my first propfinally suffered from hamoptysis, and died from local osition is, that it is as powerful for evil as it is for good. and constitutional disturbance during the early part

of the year 1885.

and serious constitutional symptoms, and a pelvic of the reflexes. abscess formed posterior to and to the left of the fundus uteri; the place where the former one had experiments of Dr. Alexander Bennet, are due enevidently occurred. The abscess was high up and tirely to its action upon the posterior column of the difficult to reach, but large quantities of fetid pus spinal cord; an observation that may make the drug began to flow on June 28, and within a few days I useful in locomotor ataxia. I am now making cliniwas able to find the point of discharge. This I en- cal investigation in this direction. larged so as to be able to insert the index finger and at length cicatrized. I saw the patient on September 15 and November 27 following, when she called at my office. There was then no discharge, and she

had become quite movable again. The cervix was was becoming quite strong again. The uterus was not drawn to either side, though the uterus had not raised up in the pelvis, and was somewhat retroverted; but it gave her no marked inconvenience. The uterus Here we evidently had inflammation of both broad was also fixed and tilted somewhat (the fundus) to

an enthusiastic gynecologist but a short time previous

#### THE EFFECTS OF COCAINE ON THE CENTRAL NERVOUS SYSTEM.1

BY D. R. BROWER, M.D.,

PROFESSOR OF DISEASES OF THE NERVOUS SYSTEM IN THE WOMAN'S MEDICAL COLLEGE, OF CHICAGO, AND LECTURER ON PRACTICE OF MEDICINE IN RUSH MEDICAL COLLEGE (SPRING COURSE).

We have recovered from the primary effects of the brilliant discovery of Dr. Carl Koller, that sixteen months ago electrified the medical world, and can now reason together calmly and dispassionately about this powerful therapeutic agent.

I have been using in private and hospital practice the preparation of the coca leaf for about six years, and for about one year past the alkaloid cocaine, and

First. Its effect upon the brain .- In small doses, that is, three or four drachms of the infusion, or one-Case 5.—On June 11, 1872, I was called to attend half to one grain of the alkaloid, it is one of the most Mrs. T., aged 36 years. She had recently moved certain and agreeable of all cerebral stimulants. It in-from Portland, Maine, where some two years before creases the frequency of the pulse and respiration, she suffered from an attack of pelvic cellulitis, which and elevates the body temperature. It gives a sense terminated in abscess. She at that time was under of well-being, a freedom from care, and a pleasant the care of the late Dr. Greene, of that city. She mental exaltation. The first effect of the drug is had been married eight years, but had never been upon the cerebrum, then upon the medulla oblonpregnant. She had stenosis of the cervix uteri, and gata, the sense of mental exhilaration preceding the suffered from dysmenorrhoea. I continued to attend stimulation of respiration and circulation. In small her from June 11 to July 3 of that year (1872), doses it also stimulates the spinal cord, producing a During this attack she suffered severely from pain desire for muscular activity, and an increased activity

The effects upon the spinal cord, according to the

This increased activity of the central nervous sysexplored the cavity. The lining membrane was rough tem is usually followed by a quiet, composed, self-satand jagged. An application of a solution of silver isfied condition of the mind and body that eventuates nitrate, 3j – 3j, was made daily for several days, when in sleep. These agreeable effects are accompanied the discharge ceased, and the cavity contracted and with loss of appetite, frequently with nausea, constipation and diminished activity of the kidneys, of the

<sup>&</sup>lt;sup>1</sup>Read before the Chicago Medical Society, Jan. 4, 1886, <sup>2</sup>British Medical Journal, April 18, 1874

ciates, and to form alliances with persons formerly value in the insanities with depression. regarded as inferiors.

like delirium tremens, with the same kind of muscular tremor, and the same kind of horrible hallucina- gestive and assimilative processes, and upon the setions. During this time the loss of appetite and cretions, have frequently disappointed me in its use. diminished activity of assimilation result in extreme I have observed their valuable suggestion of giving the pallor of the face, dryness of skin, extreme constipation, very much diminished urinary excretion, loss

of sexual function, and great emaciation.

Second. Cocaine in the Alcohol and Opium Inebrieties.—Much has been written upon the use of this atic feeding, which, after all, is the most valuable drug in efforts to cure this form of nerve mal-nutrition. Louis Bauer, M.D., in an admirable article details his experience with it in a case of alcohol in- indeed often the foundation of this form of insanity, ebriety. He began with one-fifth of a grain, which the patient soon increased to ten grains by hypodermic injection, with the same disastrons result upon the nervous system as has been mentioned; but he expresses the opinion that the cocaine inebriety was counteract the beneficial effects of the cerebral less objectionable than the alcoholic.

cases of opium inebriety, and expresses sentiments it successful. that entirely agree with my own. He says that while cocaine does modify and mitigate the phenomena of a physician, aged 45, from a neighboring town of this opium abstinence, its effect is only transient and of State; an uncomplicated case, the result of excessive brief duration; he regards it of trifling value as a professional work in a large country practice.

substitute for morphine.

thusiastic advocate of the drug.

these inebrieties; it undoubtedly makes the with-rapidly as the case detailed by Dr. Bauduy. In both drawal of either of these agents much easier for the these cases the drug was administered in pill form, patient, because its effects are so similar to opium and probably because of its combination did not inand alcohol that he scarcely feels the need of either; terfere with the free use of egg-nog and other conbut you place within his reach an agent much more rapidly disastrous and destructive to the nutrition of the cerebral convolutions; an agent that will soon in which I am using the drug with the atomizer, using ble with either of the others.

American Neurological Society, June 17, 1885, re- in the way suggested. lates a very extensive experience with the drug in

sexual functions, and of the skin. In large doses, most profound grief or sadness, recover his normal two to ten grains of the alkaloid, there are produced self, begin to talk about his case and wonder how he tinnitus aurium, photophobia, illusions, hallucinations, could ever have experienced such gloomy ideas. He great loquacity, and a marked tendency of the mind reports one case of suicidal melancholia which reto exaggeration and misrepresentation. If continued covered in less than one month, and to whom he for some time this dose produces perversion of the only gave five injections of cocaine. Dr. Alex. B. affections, a disturbance of the moral emotions, a Shaw, in an able paper on the uses of the drug, tendency to quarrel with friends and former asso-speaks with the same degree of positiveness of its

My own experience, with cocaine, in this form of This state of the nervous system may become very insanity is in accord with Drs. Bauduy and Shaw. Although the bad effects of the drug upon the didrug several hours before eating, in order to avoid the anorexia and nausea, but even with this precaution I have frequently found it impossible, while using it, to give that great abundance of food, that systemtherapeutic measure in the relief of melancholia.

Then again the excretory organs are often at fault; the mal-nutrition of the brain being due to the accumulation in the blood of the waste products of tissue metamorphosis. In such cases the further depression added to this by cocaine, must more than In such cases alteratives and stomstimulation. Dr. Erlenmeyere gave it, in various doses, in 236 achie tonics added to the treatment may make

I recall two cases of profound melancholia. One, received the cocaine in one grain doses three times Dr. J. T. Whittaker<sup>3</sup> reports, in an elaborate pa- a day, with pil. hydrargyri, aloes and strychnia. His per, the results from its hypodermic use in two cases recovery was rapid, and has continued for four of opium inebriety that were satisfactory. Dr. Palmonths. The other case was that of a woman, aged mer, of Louisville, Ky., who was one of the first to 48, from Indiana, laboring under melancholia, that advise its use in such cases, continues to be an en- seemed to have its origin in the fret and worry induced by a tumor of one of the mammary glands. My own experience is against its use in either of Under this combined treatment recovered about as centrated food in large quantities.

I have now under treatment a case of melancholia sink him to a degradation much lower than is possi- about four grains a day, on the nasal mucous membrane. The stimulating effects on the brain are Third. Cocaine in Melancholia.—The best results manifested in a very few minutes after it is used. I yet obtained from the administration of the drug have am of the opinion that cocaine is the most valuable been in conditions of mental depression. Dr. Jer-recent addition made to the therapeutics of melanome K. Bauduy, in a valuable paper read before the cholia, especially if its bad effects are guarded against

Fourth. Neurasthenia.—Cocaine is of value in melancholia. His method is to inject one grain of the treatment of this tedious and perplexing derangethe muriate of cocaine, and he frequently witnesses ment of the nervous system. Dr. J. Leonard Cornthe morose, silent, tacitum patient, a prey to the ing," in his scientific review of the cerebral form of this disease, calls it "the remedy par excellence."

<sup>&</sup>lt;sup>1</sup>Weekly Medical Review, Vol. 1, No. 12, <sup>2</sup>Centralblatt für Nervenheilkund, July, 1885, <sup>3</sup>Medical and Surgical Reporter, Aug. 15, 1885, <sup>4</sup>New York Medical Journal, Sept. 26, 1885.

The Weekly Medical Review, Vol. XII, No. 17.

Dr. William Oliver Moore, in a very valuable paper excellent physique, of neurotic tendency by inheritwell as its effects upon himself in various doses.

by the laity from its indiscriminate use, than have its action upon some persons in moderate doses is morning he would fall asleep, and on the next day alarming. Dr. G. W. Kinnicutt<sup>2</sup> relates a case of he would have no appetite and but little desire for poisoning from three and a third grains of the drug applied to the nasal mucous membrane, in the case by a corresponding depression of the vital forces. of a female aged twenty-five, who had been using it for hay fever. When he arrived she was in an alarming comatose condition, from which she recovered in tion of deplorable neurasthenia, from which he is now about three hours, under the liberal use of brandy, slowly recovering. He had the same derangement ammonia and digitalis, with heat to her extremities of digestion, assimilation and elimination that have and epigastrium.

profound coma closely simulating opium poisoning, considerable emaciation, urine scanty, and much of in a private, U. S. M. C., aged twenty-nine, the resalt of the hypodermic use of ten grains in divided neea and the irregularity of heart action before mendoses, extending over about twelve hours. The case tioned. The stools for some time were chalky, skin was supposed to be opium poisoning, and was treat- dry and pallid, pupils dilated, reflexes, especially the ed with atropia, coffee, and flagellation, and in about patellar tendon, much increased, and muscular powers nine hours he recovered from the immediate effect of much diminished. the poison. Dr. T. H. Burchard gives an account of a case in which the hypodermic injection of four- and stopped it because he feared its enslaving power. fifths of a grain produced a sudden and complete loss. The profound depression of the nervous system folof consciousness, and in which respiration stopped, lowed immediately upon its stoppage. The agents and the radial pulse was scarcely perceptible. Arti- used to overcome this neurasthenia were an abundficial respiration, hypodermic injection of one-twelfth ance of easily digested food, mild alteratives, modergrain of atropia, and sinapisms to heart and extremate alcoholics, strychnia in small doses cinchona, ities, relieved the patient. Fifteen minutes after the and the compound syrup of hypophosphites.

had been taking cocaine for four months for sick will be required to complete his restoration. headache, beginning with about two grains a day, to fifteen grains daily. He was very weak, with a ing, conscientious, and skilful physician, in the en doses. My experience is in accord with these sevfects of the drug have been under my treatment dur- lant, and being, at the time, much run down l ing the past six months, and I will call the attention cessive professional work. It gave him such at 6, t

on the physiological and therapeutical effects of coca ance, who began the use of the hydrochlorate of coand its alkaloid, gives his personal experience and caine upon the nasal and pharyngeal mucous memthe observations of others as to the value of the drug branes for hay fever. He gradually increased the in all depressed conditions of the nerve centres, as dose to five grains taken in one dose in the evening, when his attack of hay fever was usually most dis-My experience coincides with the testimony of tressing. This dose gave almost immediate relief these writers, but I observe the same care in sustain- from the hay fever, and gave a sense of mental stiming the digestive function and stimulating the eliminations as stated before. Cocaine, as mentioned in once seized with a desire for brain work, and would the beginning of this paper, is as powerful for evil pass the greater part of the night reading and writing as for good, and it requires no special prophetic gift on professional topics, experiencing a keenness of to say that more disastrous results will be experienced perception and a mental vigor greater than normal. He describes his sensations during the period of acbeen known from either opium or alcohol. Indeed, tivity of the drug as exceedingly delightful. Towards work, the excessive stimulation having been followed

He soon had a very irregular and rapid action of the heart, and passed by rapid stages to a condibeen already mentioned. He had but little desire Dr. J. Spear, U. S. Navy, publishes a case of for food, a thickly coated tongue, a feeble digestion,

He continued the use of the drug about ten days, prostration the pulse was forty-eight and feeble, the stated, the depression is gradually passing away, but respiration seven or eight, and the pupils contracted. the ten days use of cocaine has incapacitated him Unconsciousness continued about twenty minutes. for four months from the practice of his profession, Dr. Merriam relates the case of a gentleman who and the probability is that at least three months more

Second. The case of Dr. B., aged thirty-five, a man and gradually increasing till he was taking from ten of decidedly neuropathic temperament, a hard workpulse of 100, and his mind wandering somewhat as joyment of a fair but very laborious practice, with in delirium tremens. Drs. Bauduy and Shaw, in their an excellent family history. Three years ago, with papers already mentioned, dwell especially upon the my assistance, he discontinued the use of opium, dangers of the continued use of the drug in large which he had been using excessively. He began the use of cocaine last May in one-eighth grain dos heeral observers. Several cases of the poisonous ef. having been led to believe it to be a harmless sti of the Society to two of these cases, both physicians: of well-being as he had never experienced fressely by the sense of complete repose a service of drug before, the sense of complete repose a service. First. The case of Dr. W., aged about thirty, of drug before, the sense of complete repose a satisfaction it produced being very much more harked and agreeable than that derived from opium. Fegradually increased the dose until he consumed aborfifteen grains a day by hypodermic injection. Th large doses soon began to produce mental distur-

<sup>&</sup>lt;sup>14</sup>Quarterly Bulletin, New York Post Graduate School, Vol. 1, No. 1, <sup>2</sup>Chicago Medical Journal, Oct. 1885, <sup>2</sup>The Medical Record, Nov. 14, 1885, <sup>2</sup>The Medical Record, Dec. 5, 1885, <sup>2</sup>Quoted by the Medical Record, Nov. 28, 1885, from Ohio Medical

ance; he became irritable, quarrelsome, impetuous, and considered himself to be possessed of a mission, and that to revolutionize the medical practice, claiming to be able to cure all diseases by the potency of cocaine. He gave it indiscriminately to all his patients. He gave it to obstetric cases and to syphithreatening vengeance upon all who dared to doubt They appear to me to be worthy of record: the correctness of his various extravagant statements, wildest denunciations and of his severest threaten- heavily coated and his bowels were constipated. ings. Several physicians and druggists who made did not assume the recumbent position.

the Washingtonian Home. Here the cocaine was gradually withdrawn, but his mental extravagance continued unabated. He left this institution clandestinely, and is now supposed to be in Canada.

To sum up:

1. Cocaine in small or moderate doses is a cerebral stimulant, but produces derangement of the digestive and assimilative functions, and diminishes the elimination of waste.

2. The use of cocaine in the alcoholic and opium inebriates is not satisfactory; while it is a more or less perfect substitute, yet its use is attended with greater danger than alcohol or opium.

3. The use of cocaine in mental depression, if we carefully guard against the depressing effects of the rug upon digestion and assimilation, will often give Yutter results than any drug hitherto used.

bee. The use of cocaine in neurasthenia is a valuable on to the treatment. on to the treatment.

herr he drug, if administered in large doses pertist and v. causes a very marked deterioration of the centi. Inervous system, producing a profound cerebral relarasthenia, and may produce such a mal-nuution of the cerebrum as to develop insanity.

6. Cocaine, occasionally, in doses heretofore rearded as small, produces alarming depression of the entral nervous system.

#### SOME CASES OF REFLEX NEUROSIS.

BY G. M. GARLAND, M.D.,

OF BOSTON, MASS.

The subject of reflex neurosis is one of great interest, and the cases which come under this grouping, litic cases. He gave it to his wife, his three children present such diversity of phenomena and such ecand his mother. He was formerly a modest man of centricities of behavior that they are always fascinatscience; he became bold and unscientific in his ing to the observer. The following cases presented method, went about engaging in lawsuits, carrying a themselves at the Carney Hospital, and were there pistol and frequently brandishing it in public places, treated during my service in the summer of 1885.

Case 1 .- M. I. D., merchant, aged 58, entered the a perfect terror in his neighborhood. He had been a hospital on July 7, 1885. He had been suffering for very devout member of the Roman Catholic Church, six weeks with severe supra-orbital neuralgia on the but the priest of the church could now do nothing right side. The pain was not continuous, but seized towards restraining his wild impetuosity. He neg- him at frequent intervals every day. Each individual lected his practice and by his manner alienated attack was of short duration, but the severity was so those whom he did not neglect, so that very soon he great and the patient's dread had become so exaglost it. Piece by piece his horse, his buggy, and his gerated that he was completely unmanned. He had furniture disappeared, until his family was reduced lost flesh, strength and appetite, and he was nervous to poverty. My repeated efforts to persuade him to to an extreme degree. He had been obliged to give stop the use of the drug were unsuccessful; indeed, up his business, and he emphasized the apprehension simply resulted in making me the recipient of his with which he awaited each attack. His tongue was

Upon questioning, it was learned that the patient attempts to restrain him met with an equally positive had had an attack of neuralgia in the same spot three rebuff. The same general deterioration as before years previous. That attack was of short duration, noticed, was manifest in his case, extreme pallor and however, and had never troubled him until it began dryness of skin, great emaciation, loss of appetite and at this time. He was a man of free habits as regards no desire for sleep, so that for at least one week he food and drink. He had always enjoyed good health up to last April, when he had pneumonia, which ran He continued to go from bad to worse until his an ordinary course and terminated by complete resfriends thought it best to restrain him. In pursuance olution. His neuralgia began within a few weeks of this object Dr. F. L. Wadsworth and I appeared after his recovery from the pneumonia. His face before the County Court and advised his removal to presented a striking contrast between a high color on the cheeks and a zone of waxy pallor round his

Physical examination revealed the following facts: His heart, lungs and kidneys were sound. There was no tenderness or swelling over the right supraorbital region. His eyes were normal in appearance, and a later ophthalmoscopic examination by Dr. Derby revealed merely a slight hypermetropia, which was fully compensated for by the glasses which he wore. Nothing abnormal was found in his nostrils or mouth. On opening his mouth, however, to exhibit his teeth, he excited an explosion of pain. The right eye closed, tears ran from it and the lids trembled convulsively. The face flushed and the mouth was drawn toward the painful side. This attack lasted from one-quarter to one-half a minute. The patient then stated that he could produce these attacks by certain movements, which he avoided as much as possible. Chewing his meat at table; drawing his shirt over his head, and certain other acts, would start the pain. The examination of the ears was next in order, and these were found packed with hardened way. The right ear was so tightly plugged that it required nearly an hour of syringing before the mass was dislodged. The left ear was cleansed in a few minutes.

<sup>&</sup>lt;sup>1</sup>Read before the Section for Clinical Medicine, Pathology and Hygiene of the Suffolk District Medical Society, December 9, 1885.

The fact that the patient could explode attacks of preceding Friday, together with anorexia and vomitto stimulate his digestive secretions.

the fire was out. On July 17 he sat and read in the a small spot very tender to pressure. sun for some time, and then experienced a mild attack of neuralgia. The pain differed from his pre- everywhere healed, except around the left wisdomvious attacks in that it was slight, and it persisted tooth. Here the mucous membrane was swollen and for ten or fifteen minutes. The house physician, Dr. pushed forward so as to conceal more than half of Gleason, applied galvanism to his forehead, and this the tooth. On lifting this swollen tissue an ulcerated immediately relieved him.

occasionally he would feel the twitching of the skin, form, was inserted between the gum and the tooth, referred to above, and to relieve this galvanism was and this constituted the entire treatment. Within applied eight or ten times. After leaving the hos- two days the gum had receded almost to its natural pital the patient took a trip to Europe, and has now position. The ear-ache was fast disappearing, and returned to his business in perfect health.

with this case. The first is to trace out the nerve lessness returned. The lint was resumed. In two circuit between the ear tube and the supra-orbital days more the ear-ache was entirely gone, and the region. Dr. Hilton shows, in his work on "Rest patient was discharged well at the end of a week. and Pain," that the "upper and anterior part of the external ear and the auditory canal derive their sensibility from the fifth cerebral nerve," so that these portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the thorse the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, face, eyes, nose, the portions of the ear are thus included in the sensory circuit with the forehead, temple, the ear are thus included in the sensory circuit with the forehead, temple, the ear are thus included in the sensory circuit with the forehead, temple, the ear are thus included in the sensory circuit with the forehead and the ear are thus included in the sensory circuit with the forehead and the ear are thus included in ticatory movements of the lower jaw, he will see that occasionally streaked with blood. the wall of the canal is thereby moved in a forcible. manner. Moreover, the history of a previous attack ous rales over both chests, front and back. The inof neuralgia in the same region would lead one to ferior boundaries of the lung reached lower than assume an exaggerated susceptibility of the right normal, showing emphysematous enlargement. There supra-orbital nerve. The future history of this case were no signs of any pulmonary consolidation. will be interesting.

after the removal of the irritating cause was also an ginning of his cold he has noticed that he could not extremely interesting phenomena. For a number of breathe through the right nostril. weeks the patient complained of the twitching feeling described above, and such sensations always aroused his apprehensions.

currents as compared with the previous one.

nervous force at will, by the movement of parts re- ing. The mouth presented the familiar signs of mermote from the seat of the pain, led me to the belief curial salivation, with swollen gums and ulcerations. that there must be a mechanical cause for the pain, The patient complained of a sharp pain immediately and that I had discovered the cause in the impaction behind the ears. A suitable mouth wash was preof the right aural canal. Accordingly, I stopped all scribed and her gums rapidly improved. My term of the quinine and other powerful neuralgic medicines service beginning in July, the previous treatment was which he had been taking, and gave him simply one-continued until July 13, when my attention was estwentieth of a grain of podophyllin before each meal pecially attracted by a look of distress on her face, and by her complaints of a severe ear-ache on the The removal of the wax caused no pain or discom- left side which prevented sleep and was wearing out fort during the operation, and it was followed by an her strength. She said her ear had ached more or absolute cessation of the neuralgia for eleven days. less from the time of entering the hospital, but it had Once or twice during these eleven days the patient grown much worse of late. In examining the ear reported a peculiar sensation over the right side of nothing abnormal could be discovered outside or inhis forehead. It was not pain, but a sort of twitchy side, and there was no tenderness to touch or upon feeling in the skin. This aroused his apprehension percussion over the mastoid process. Between the again, but he was calmed by encouraging words and anterior edge of the left steno-mastoid muscle and was told that time was required to cool the stove after the posterior edge of the ramus of the jaw there was

The mouth was next examined. The gums were surface was exposed which was very tender to the Since that day he has had no other attack of pain; touch. A small piece of lint, powdered with iodothe patient could sleep. On the third day the dress-There are several interesting points in connection ing was omitted by mistake and the pain and sleep-

teeth and tongue. The entire posterior surface and to sit up gasping for air. During the day he has octhe anterior surface of the pendulous portion of the casional paroxysms of severe dyspnea, and his ear are supplied by branches from the second cervi- breathing is habitually rapid and labored. His face cal nerve. The presence of wax in the ear tube wears a distressed, weary look. Slight movements seems a slight cause for so much distress, and yet if cause distress for breath, and he walks about with one will put his finger in his ear while making mas-difficulty. The expectoration was a greenish-yellow,

Physical examination revealed sibilant and sonor-Twenty years ago the patient's nose was bent toward The gradual cooling down of the excited nerve the right side by a blow from a ball. Since the be-

From the date of his entrance until July 6, the patient was treated by various remedies addressed to his cough and to his asthmatic breathing, but no re-Case 2.—This case exhibits a reversal of the nerve lief had been granted him. On July 6, I made an examination of the patient and found that his right Miss C. P., aged 32. Entered the hospital June nostril was packed with polyps. These polyps were 18, 1885, with the history of a sore mouth since the four in number, large and firm in consistency. After two of them had been removed the patient experi- cough is no longer loud and barking, but is more enced decided relief from his suffering and slept with like a clearing of the throat. She goes out to walk comfort. This improvement was still more increased daily. after the removal of the remaining polyps at a later sitting. All medication directed to his cough was patient can use her voice a little. Her appetite and stopped, and he was given some soda powders for his general health are improving. stomach, and an occasional laxative.

heard at the previous examination had disappeared. Only a high-pitched sibilant râle could be heard oc- nary tone without any hoarseness. Her weight has casionally on the left apex. On violent respiration increased several pounds. Discharged well. a few wheezy râles could be heard over the lowest

part of the lung in front.

During August, cocaine and glacial acetic acid were applied occasionally to the lower turbinated bones in both sides. No other treatment has been employed since then, and within a few days the man reported himself to me in excellent condition. He works about the hospital, goes up and down stairs at will, and breathes with ease. Rarely he has an attack of asthmatic breathing at night.

rosis, which I was unable to trace to any local cause. ence of the spinal ice-bag. M. A. G., aged 39, unmarried, entered the hospital on September 8. She has always been a hard worker, but remarkably healthy. Last December, after exposure to cold, she began to cough. There was no expectoration then or at any time since. She now grew somewhat hoarse. This symp om varied at first, but finally increased in intensity until she could of twelve to eighteen or twenty times per minute. notice. On retiring at night she would lie and cough for an after coughing

Inasmuch as nearly every strong tonic had been tried to occupy a position behind the tumor. upon the woman during the months of her affliction

was applied for four hours daily.

the following progress:

or nervous, and then only at long intervals. The that "the diagnosis of fibro-cystic tumors has, up to

September 16. The cough has entirely ceased and

omach, and an occasional laxative.

The record for July 29 states that the moist râles clearer every day. No return of the cough.

September 29. Patient is able to talk in an ordi-

In addition to the ice-bag, the following pill was given three times daily to stimulate the stomach:

Ŗ	Acid. Arseniosi gr.	1-So.
	Podophyli	1-20
	Qum. Sulph:	1-80.
	Strychnine Sulph	I-80.

and the patient also took one teaspoonful of malt after each meal. Considering the large doses of strychnine and quinine which the woman had previously taken without avail, her improvement at the Case 4.—This was a peculiar case of laryngeal neu-hospital would seem to be largely due to the influ-

### A CASE OF OVARIOTOMY. BY P. J. MURPHY, M.D.,

OF WASHINGTON, D. C.

To chronicle a success now-a-days in ovariotomy speak only in a whisper, and this aphonia has peris, like "carrying coals to Newcastle," a work of supsisted up to the time of treatment at the hospital ererogation; and I should not bring this to the notice The cough was of a distressing, barking character, of the profession, did I not deem it expedient to point and persisted through all her waking hours at the rate out some minor details deserving more than a passing

The patient, Mrs. D., aged 50, white, multipara, was hour or two before she could go to sleep. The cough first seen by me on the 5th of November last, when began by an audible sharp inspiration, as if the dia- the following history was obtained. There had been phragm contracted spasmodically, and this was fol- a gradual enlargement of the abdomen for three years, lowed by one or two loud expiratory barks. The during which time she had been treated for an enpatient's hands and feet were restless, but exhibited larged spleen, thought to be caused by chronic, mano choreic movements or trembling. Patient says larial poisoning. Accompanying the abdominal she has lost forty pounds of flesh since she began enlargement there had been anorexia, emaciation and coughing. Her appetite is poor, and she complains progressive asthenia. Of late, marked dyspnea was of a dull, aching pain at the left side of the back experienced whenever the recumbent posture was aster coughing. sumed. Urine normal. Menstruation had ceased A careful physical examination was made. There five years ago. Upon examination, the abdomen was was no tenderness or tumefaction about the larynx, found to be enormously distended by an elastic, fluc-The cords were slightly reddened, but were not para-tuating mass. Its contour was symmetrical and lyzed. The throat and pharynx were considerably presented a slight appearance of flattening in the reddened by the rasping cough. The lungs, heart, hypochondriac regions. Flatness on percussion was kidneys, ovaries and womb were normal. The bow- everywhere present, extending even into the flanks. els were constipated, but yielded readily to laxatives. The uterus was slightly increased in size, and seemed

The history of the case, together with its physical without any apparent benefit, it was thought advis- signs, clearly indicated that we had to do with a cystic able to try the effect of an ice-bag upon the spine. I tumor of the abdomen, which took its origin from the Accordingly, on September 10, the bag was applied uterus, ovary, or broad ligament. As a distinction for two hours. On the next day and thereafter it between the last two conditions is unimportant as regards treatment, the problem presented for solution The hospital record, kept by Dr. Gleason, reports was, the possibility of excluding the presence of a fibro-cyst of the uterus. To accomplish this, is by September 13. Patient coughs only when excited no means easy. In this connection Koeberlé states

the present, been declared impossible by almost every author;" and, as between uterine and ovarian cysts, Baker Brown admits that he knows of "no distinguishing marks." Later writers, however, take a more hopeful view of the situation, as the following table of differential points will illustrate.

	OVARIAN CYSTS,	FIBRO-CYST OF UTERUS.
Age.	During period of ovarian activity, 18-45 years.	Generally after 30,
Race.	Very rare in negroes,	Most frequent in negroes
Marriage,	No influence,	Generally in the unmar- ried or sterile,
Duration,	Relatively short, Patient seeks advice early.	Relatively long.
General health.	Not impaired at first. Later, emaciation, urinary disor- ders, hectic and prostration.	many years, without con-
Menstruation.	Normal or absent (both ovaries),	Normal or profuse.
First_noticed,	In ovarian region,	Ahove pubes,
Examination. Abdomen.	Uniformly enlarged, Rotundity remains when re- cumbent posture is assumed by patient,	
	Elastic and fluctuating.	Increased sense of resist- ance, Fluctuation often obscure.
	Nodules, when present, in- distinctly felt. (Endogen- ous cysts).	Nodules frequently felt,
Uterns,	Not connected with tumor, normal in size, retroverted, behind tumor.	Connected with tumor, Enlarged, drawn upward in pelvis.
Fluid (most im- portant in differ- ential diagnosis),	Thick, colloid, "sticky," may be opaque, "opaline," Con- tains albumen. Not spon- taneously coagulable.	Thick, syrupy, straw-colored. Contains much fibrin. Coagulates spontaneously.
Microscope.	Drysdale's granular cell, (Clears up upon the addition of acetic acid,	Fibre cells. No cells cor- responding to Drysdale's.

Although a careful review of the symptoms presented in this case suggested the probability of its ovarian origin, in my opinion a positive diagnosis, without the aid which a careful examination of the fluid would afford, was impossible, 1 therefore determined to perform paracentesis abdominis to secure a an ovarian cyst is, I believe, for the most part entirely specimen of the fluid.

And here let me call attention to the fact that the tendency of the day is to abandon tapping and substitute therefore, an exploratory incision. I think this tendency is likely to be checked at no distant day, and it is my belief that were statistics furnished record, also, of a large number of recoveries following of the mortality following exploratory incision, it rupture of the cyst, will tend to confirm this view. would be demonstrated that the operation is by no means devoid of danger. Much can be learned by tapping without recourse to the more dangerous procedure of incision. The removal of the growth should not, however, be delayed sufficiently long after tapping, to permit the formation of adhesions. may be urged that, by the employment of modern antiseptics, few cases terminate fatally as a result of Leg by Lateral Flaps.—At the meeting of the exploratory incision. Grant it! But the principle Royal Medical and Chirurgical Society, on Decemhere as elsewhere should be observed, that of two ber 8, Mr. Thomas Bryant read a paper on this evils, the *lesser* should always be chosen.

specimen of the fluid, which was too thick to be withdrawn by means of an aspirator. The wound was sealed with iodoform collodion, and the fluid sent to a competent microscopist for examination. He pronounced the specimen as characteristic of ovarian dropsy containing numerous large, granular cells, corresponding in appearance and reaction to those described by Drysdale.

During the night following the tapping, the patient was awakened from a sound sleep, with the feeling that "water was running from her stomach." Calling her daughter, it was discovered that from the puncture a steady stream of fluid was emerging. A large slop jar was procured and the patient, turning upon her right side, filled the jar to overflowing. The amount of fluid collected measured six and one-half gallons. I was summoned to see my patient, and after explaining the circumstances, made an appointment to operate the following day.

Assisted by Drs. Wm. Lee, Handy and Poole, Dr. Brewer giving the anæsthetic, the usual operation was performed, lasting twenty-eight minutes. A large, partially collapsed, multilocular cyst of the right ovary was removed. A quantity of the fluid contents of the sac was found in the abdominal cavity. This was in part removed by means of hot carbolized sponges, although no effort was made to procure its entire removal. The wound was closed by means of braided silk sutures, which had been rendered thoroughly aseptic. lodoform gauze and marine lint constituted the dressing. The patient sat up on the fourteenth day after the operation.

The necessity of devoting scrupulous attention to the "toilet of the peritoneum," has been urged by most operators. It seems to the writer that, in a great many instances, quite a number of extra frills are appended, which are not only needless but positively harmful. If we consider for a moment what the peritoneum is, and what its function is, it will not require much knowledge to determine what amount of friction it will bear. While "cleanliness is next to godliness," the too frequent use of the sponge in ovariotomy is often attended with danger

One other point en passant; the fluid contents of innocuous. That such was the case in this instance, is evidenced by the fact that a large quantity of the fluid remained within the peritoneal cavity for upwards of thirty-six hours before the operation, without producing the slightest trace of irritation. The

#### MEDICAL PROGRESS.

AMPUTATION AT THE KNEE-JOINT BY DISARTICU-LATION; WITH REMARKS ON AMPUTATION OF THE subject, which he commenced by saying that the A medium sized trocar was employed to obtain a operation of removal of the leg by disarticulation at

S. Lane, and had been advocated by Messrs. G. D. Pollock, Pick, Stephen Smith, Markoe, Brinton, Staples, and himself. It was still regarded with some suspicion and not frequently resorted to, amputation through (or just above) the condyles being generally preferred. The operation by disarticulation retion of a good flap. If these conditions were not of an artificial limb. present, some other method of amputation would of the femur. The cicatrix was always placed well very important to cut the flaps long enough. behind the femur. The patella was preserved, its removal being found to be quite unnecessary. The operation. He had read a paper at the Liverpool steps of the operation, after three different methods, were then described, viz.: that of Pollock by the cating its utility, but he preferred what he there called long anterior flap, Pick's plan by lateral flaps, and the "oblique circular" method. He said there was Stephen Smith's method by lateral hooded flaps; and no other stump, except that of a Syme's operation, illustrations of the steps of the latter operation were which could compare with it, the anatomical condishown. The author endorsed completely the remarks tions being just those favorable for a good result. of the American surgeon upon the value of this He thought the circular method lessened the chance method of procedure, and strongly urged its appli- of sloughing, as the skin flap remained a single piece. cation to cases of amputation in the leg also. The He left the patella, and had never seen harm follow. muscle substance was generally included in the flap. He was favorably struck with the idea of leaving the in thin subjects, but not in others. The resulting semilunar cartilage; it was of course a matter of stumps in the leg thereby obtained were excellent, great moment to secure, if possible, primary union. The method of Stephen Smith for amputation at the other plans already mentioned, as it gave a better class of cases. Smith's method also placed the cica- the lateral one advocated by Mr. Pick. trix entirely behind the condyles and out of harm's section of tissues and the non-exposure of the mus- Times and Gazette, Dec. 12, 1885. cular interspaces of the thigh. (3) The escape from the necessity of sawing the femur, with its attendant the thigh muscles, and consequently the greater moresulting stump.

the knee-joint was first practised in England by Mr. cutting through the femur, with its attendant dangers. He preferred lateral flaps; in his earlier operations he had made long anterior flaps, and sloughing had frequently resulted; on one occasion he had practised a long posterior flap, but had found that it dragged upon the incision during repair. The making of lateral flaps was, so to speak, an accident, quired for its success that the disease or injury should they were necessitated by the condition of the skin be confined to the leg, the condyles of the femur in a traumatic case. He rather disagreed as to leav-uninvolved or very slightly affected, and a sufficiency ing the patella; he thought that it was liable to be of healthy soft parts below the knee for the forma-displaced, and that it might interfere with the fitting

MR. MARSH commented on the leaving of the artihave to be adopted. The author gave tables of his cular cartilage; it was not only not followed by any thirty cases, with the results. Where there was no untoward results, but it seemed to act in some measure sloughing, no trouble was experienced with the arti- as a barrier against absorption of wound products. cular cartilage on the condyles of the femur, and He did not think that any strong prejudice against after healing the soft parts moved freely over the end this operation existed at St. Bartholomew's. It was

> DR. HARDIE (Manchester) spoke in favor of the meeting of the British Medical Association, advo-

Mr. Pollock referred to the question of leaving knee-joint was to be preferred to either of the two the patella; there were decided advantages, less dissection was needed, and few muscular insertions; he covering to the condyles of the femur, and the flaps had never seen inconvenience result, not even as were less prone to slough than in the long anterior regarded the fixing of artificial limbs; on the conflap of Pollock. One case in five of the former trary, the patients walked firmer, and with less throwsloughed, and rather more than half of the latter ing of the limb. He preferred Dr. Hardie's flaps to

Mr. Timothy Holmes agreed that the results way, whereas by Pick's method the cicatrix came to were very excellent when an operation was successlie in the intercondyloid notch. Moreover, Smith's fully carried out, but the method was more dangerous, plan permitted no bagging of fluids, the stump being and less often successful than amputations of the in the best position for drainage. The author advo-thigh done in any one way. Such flaps, wherever cated the leaving of the semilunar cartilages in situ, and however obtained, were chiefly skin, and there as of great advantage to the case, the soft parts being was danger of their sloughing. He approved of thereby all held well in place and the fascial relations leaving the patella. The danger of leaving a surface preserved. Dr. Brinton, as early as 1872, had advised covered with cartilage was antiquated and exaggerthis point of practice. Finally, the author summarized ated. Nevertheless, the operation was one to be the advantages of this form of operation over ampu-done sparingly and only after very mature considertation through the thigh in the following words: (1) ation. The plan of leaving the semilunar cartilages The lessened shock of operation. (2) The lessened was a great improvement on the old plan.—Med.

Fracture of the Olecranon.- In an original risks. (4) The preservation of the attachments of article on the prognosis and treatment of simple transverse fracture of the olecranon (Centralbl. für bility of the stump. (5) The useful character of the Chirurgie, No. 33, 1885), Dr. Carl Lauenstein, of Hamburg, states that, in the opinion of all surgical MR. PICK was glad that the subject had been authorities, union after this injury very rarely takes brought forward, for he felt that the operation was place by bone, but usually by fibrous bands which, still unpopular, and that preference was given to according to their length, interfere more or less with

the full use of the upper limb. Hueter and Lossen effect; in many cases it must be given for a long time hold that the chief cause of this failure of osseous before any appreciable benefit is derived, and its use union is the defective production of callus by the must be renewed at intervals to prevent a recurrence periosteum of the olecranon, which consists mainly of the affection. In pulmonary phthisis, it is useful of the non-vascular insertion of the tendon of the only when there is evidence of the bronchial glands triceps. According to Bardeleben, on the other hand, being affected, but in tabes mesenterica the good efthe formation of callus is prevented simply by separ-ation during treatment of the two broken surfaces of too far advanced. In scrofulous caries it is also of bone. Lauenstein agrees in the latter view, and asks great service. Speaking of the physiological action why, if the periosteum of the olecranon is capable of producing callus in longitudinal fracture, it cannot do activity of the chlorine, and to the especial function so when the fracture is transverse. He holds that of lime in the assimilative and nutritive process. the prognosis of transverse fracture of the olecranon, Chloride of calcium is one of the normal ingredients and the probability of union merely by fibrous tissue, of the blood, and is present in the gastric juice. depend less on the special nature of the fracture than In the Brit. Med. Jour., April, 1885, Dr. Sidney on inefficiency of such plan of treatment as is usually Ringer records some experiments which throw light employed. A treatment is advocated, which is on the action of this drug. If the heart of a frog analogous to that of Volkmann in dealing with simple has been subjected to the action of fluids, such as transverse fracture of the patella. The extra-articu- water or a solution of common salt, the ventricular lar collection of effused blood is first withdrawn by contractions gradually cease and the ventricle stops puncture, and the fragments are then brought into in diastole. The only constituent which will restore close apposition. The three essential points in the suspended contractility is lime; by adding one treatment of transverse fracture of the olecranon are, part of chloride of calcium to 10,000 parts of saline it is stated, early removal of effused blood from the solution, spontaneous contractions return, and the joint, prevention of separation of the fragments, and ventricle soon begins to beat as strongly as ever. prevention of subsequent ankylosis of the elbow. Any potassium salt has just the opposite effect. The Such indications are not fulfilled by the ordinary plan author always prescribes the crystallised chloride of of treatment. It is clear that where, after an inter-calcium, as the anhydrous salt forms a turbid solution val of from eight to fourteen days, the effusion of and has an unpleasant taste. The dose given varies blood has been removed or much diminished by rest, from 10 to 20 grains, but the author gives 1 to 3 elevation of the limb, cold applications, compression, grains for young children, and rarely over 12 to 15 etc., the chances of obtaining osseous union of the grains for an adult.

fragments have been lost. The triceps muscle, deprived, through fracture of the olecranon, of its inlised salt in 12 ounces of syrup. The dose of this sertion, acts like any other muscle divided either by solution varies from 5 to 40 minutes, three times a injury or in tenotomy, and undergoes more or less day. It is best given in milk after meals. A refercontraction. When the effused blood is left to be ence to the Medical Digest, sect. 275: 2. shows that removed by absorption, the risks of ankylosis of the this salt has been much appreciated in the past. elbow are considerably increased. In most hand- Rep. ]-London Medical Record, Dec. 15, 1885. books, the surgeon is advised to commence passive movement of the elbow about three weeks after the date of injury, an interval which is not sufficient for OF COCAINE. — DR. A. LANDERER, of Leipzig, has the attainment of complete osseous union of the recently made trial of subcutaneous injections of co-fragments. Simple extension of the forearm and forcing of the limb in this position do not suffice to keep the agent thus administered acts far better than anxesthe fragments in contact. The author, after early thetic ether, morphine, or any other means hitherto removal of the effused blood, maintains the olecranon used with this object. The mode of administration in contact with the ulna by applying strips of plaster is very simple. By means of an ordinary morphine wound diagonally around the arm, in order to avoid syringe about fifteen minims of a four per cent. sotoo much constriction. Extension of the forearm is lution are injected under the skin. Amesthesia is kept up for five or six weeks, until complete bony usually established at the end of five minutes. If union has been established.

Practitioner, Sept. 1885, p. 161, Dr. R. W. Crighton about the size of a crown-piece. A dissection, it is contributes a most interesting article on the therapeutic value of chloride of calcium. This drug is by last century under the name of muriate of lime.

LOCAL ANÆSTHESIA BY SUBCUTANEOUS INJECTIONS the patient after this interval still feel when the surface is scratched with a knife, the author waits one or THE VALUE OF CHLORIDE OF CALCIUM. In The two minutes longer. The anaesthetic region is of no means a new one, but was well known during the out causing any pain. The influence of the cocaine is maintained for about half-an-hour. If it be neces-The author has used chloride of calcium for some sary to prolong the anaesthesia, a few drops of the years past, and says he knows of no other therapeutic solution may be applied to the wound, and allowed agent that will produce the same good results in to remain until it is absorbed. The subsequent healsuitable cases. In cases of glandular enlargements ing of the wound is not in any way affected by the of the neck in children, it seems to have a wonderful injection. No unpleasant general after-effects have ever been observed by Dr. Landerer, nor any local caustics were applied to cancerous growths. caine injection as a means of producing local anæsthesia is far preferable, Dr. Landerer asserts, to the ether spray. The cocaine solution, when introduced through a fine and and sharp needle, does not cause so much pain as the ether does, whilst freezing the skin. The anæsthetic influence of the ether-spray does not extend below the skin. After injection of cocaine, on the other hand, the parts immediately below the skin are quite free from pain and sensation. -London Medical Record, Dec. 15, 1885.

TREATMENT OF CATARRHAL PHTHISIS, OF H.EM-OPTYSIS, AND OF CHRONIC BRONCHITIS BY TERPENE. -Professor Germain Sée gives the following résumé of his paper on this subject:

1. It diminishes and quickly arrests purulent expectoration in catarrhal forms of phthisis. Whether the muco-purulent secretions proceed from the bronchi, irritated by tubercles, or from the walls of pulmonary cavities; whether the malady is at an early stage, or at a phase of purulent breaking down, or even of cavities already formed; terpene should be used whenever the formation of pus is sufficiently abundant to tire the patient, to exhaust the strength, or to cause him to waste away.

2. It should be used with success in the hæmoptysis of the early stages of tuberculosis; that is to say, when the disease has not yet developed large cavities, with aneurisms of the pulmonary arteries.

3. In the treatment of pulmonary catarrhs; of chronic bronchitis not dependent on asthma, and only producing dyspnæa by choking the bronchi, terpene constitutes the best method of lessening bronchial hypersecretion.

4. The action is quick, sure, and free from physiological inconveniences, rendering it preferable to preparations of syrups of turpentine or tar, or of shoots of pine, which contain so little of it; and to essence of turpentine, which is not tolerated. It even offers advantages over creosote, on account of its perfect innocuity and easy digestion.

5. The best way of administering this medicine is either in the form of pills or tincture, and the best dose is one gramme.

6. In catarrhal, or emphysematous, or nervous asthma, which is to be distinguished from primary catarrh, iodine and pyridine have an incontestable superiority.-Bulletin de l' Académie de Médicine, No. 30, 1885.

COCAINE FOR ALLAYING PAIN IN THE DESTRUC- cause the effect of it passes off in a few hours. TION OF CANCEROUS GROWTHS.—In the Lancet, Oct., in which he used cocaine to alleviate pain, whilst but it may be none the less useful for that.

mischief, such as suppuration. Injection of cocaine patient was aged 73, and suffered from extensive has been applied in cases of simple incision, of needle-scirrhous ulceration of the right breast. The surface extraction, and of removal of small tumors. It has of the ulcer was covered with rugged irregular granubeen applied also in a case of hydrocele. Fifteen lations which bled upon pressure; the veins around minims of a four per cent. solution were first injected the growth were much engorged, and the pain was into the sac, and five minutes later, through the same increasing. After painting the ulcerated surface with canula, about a drachm and a half of a solution of a ten per cent. solution of hydrochlorate of cocaine, The latter injection did not cause any pain, a paste was applied consisting of cocaine, potassa fusa, About six hours after the operation the patient com- and vaseline. After some minutes a burning sensaplained of slight and very transient uneasiness. Co-tion was experienced; then the paste was quickly removed with the charred tissue, by means of pledgets of cotton-wool previously moistened with water. The denuded surface was again painted with cocaine solution, and the compound paste reapplied. By this means, more than a tablespoonful of cancerous growth was removed by a rapid and painless process. The next day a clean, smooth, and bloodless surface, insensitive to the touch, was presented. By this means, most of the scirrhous mass was removed after a few applications. In the second case, the author destroyed a cancerous growth of the os and cervix uteri, by means of sticks of potassa fusa, and a ten per cent. solution of cocaine.—London Medical Record, Dec. 15, 1885.

Anæsthesia by Chloroform and Oxygen.—At a meeting of the St. Petersburg Medical Society, Dr. Bertels (Vratch, No. 48, 1884, p. 816) made a communication on artificial anæsthesia after Neudörfer's method somewhat modified by himself. Anæsthesia by means of a mixture of chloroform with oxygen requires far less quantities of chloroform comparatively with the usual methods of its administration, and is, correspondingly, associated with lesser danger. Moreover, perfect anæsthesia ensues far more easily, and may be obtained even in those patients in whom chloroform alone has failed. When the quantity of chloroform in the mixture does not exceed 10 per cent., no sickness is observed. The pulse remains unchanged; the tongue never falls back. To ensure complete narcosis, it is essential to firmly adjust the mask to the patient's face. Professors A. J. Krassowski and V. V. Sutugin have also obtained good results from the use of a mixture of chloroform with oxygen. -London Medical Record, Dec. 15, 1885.

A NEW USE OF ATROPINE. -- DR. FREDERIC C. Coley writes to the British Medical Journal, of Dec. 26, 1885, as follows: We often find it necessary to advise patients not to read, or write, or do any work requiring close attention. In many cases, the patients are equally ready to promise obedience, and to break the promise under slight temptation. Under these circumstances, we may fairly make the necessity for careful ophthalmoscopic examination (always desirable in these cases) an excuse for crippling the power of accommodation by a tolerably strong solution of atropine; the instillation to be repeated as often as necessary. I generally use homatropine to dilate the pupil for merely diagnostic purposes, bein such cases as I have alluded to, atropine is pre-1885, p. 663, Mr. C. E. Jennings records two cases ferable. Of course, this suggestion is obvious enough;

THE

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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#### SATURDAY, JANUARY 16, 1886.

#### THE TREATMENT OF CHRONIC HEART-DISEASE BY MEANS OF BATHS AND GYMNASTIC EXERCISE.

appreciate that internal remedies have their limita- nastic exercises as he describes. Schott asserts that, tions, and to long for some other effective means of under his method of treatment, he has frequently reinvigorating damaged hearts. Digitalis has been recognized marked decrease in the area of pracordial warded the judicious physician. Perhaps as often gorgement. Altogether he has had 300 cases of hearthis efforts have been frustrated by indiscretions on disease under his care since 1871, but as most of them the part of the patient, or intolerance of medication. returned to their homes before the benefit derived had Therefore, although the prognosis as to speedy death become permanent, he has had to depend for his knowlto be abandoned. Such at least has been the opinion, their family physicians. These have been for the most either tacit or expressed, until within the last few part highly gratifying. He disclaims any intention years. In Germany, the treatment of chronic heart- of advertising the baths at his resort as alone benedisease has taken a new departure since the publica- ficial in such complaints. Favorable reports have tion of Oertel's "Method of Therapeutics," the princibeen made by Mayer, of Aachen, Groedel, of Nauple of which consists in the reduction of bodily fat and heim, and by Scholz, of Cudowa. Schott regards as mountain climbing (see editorial in The JOURNAL, the last named resort since their waters are chaly-Vol. V., No. 17.)

36, 1885. The principle of the treatment is to further Schott's method of employing baths. the nutrition of the cardiac muscle, and thereby ob-

for obtaining this object which is novel. Notwithstanding the announcement of Beneke, in 1872, that sufferers from rheumatism, complicated by disease of the heart, were often greatly benefited by a judicious course of baths; that, indeed, as he expressed it, "even fresh endocarditic vegetations may often be absorbed;" notwithstanding this statement as the result of Beneke's observation so long ago, and in spite of Oertel's publication, Schott claims priority in the recognition and advocacy of baths and exercise as therapeutic agents of the greatest value in diseases of the heart. He began his observations, he says, in 1871, but was unable to publish the results until 1883. At that date his brother, Dr. Theodore Schott, who has been his assistant, published the account of a single case which had experienced marked benefit from several systematic courses of baths, but was unable to employ the advantageous auxiliary of exercise.

Schott does not think it always necessary or judicious to reduce the fat and liquids of the body, to the same extent as Oertel. Nor does he believe in the employment of mountain climbing at the commence-Every practitioner, who has much to do with the ment. He would only have the patients resort to it treatment of heart-disease, must eventually come to after having prepared themselves for it by such gymthe sheet-anchor in such cases, supplemented by rest | dulness, an increased vigor of the pulse, and the disand tonics. Most gratifying results have often re- appearance of symptoms dependent upon venous enmay be favorable, the hope of ultimate recovery has edge of their subsequent condition upon the reports of water. This is accomplished by diet, baths and particularly interesting the reports from the baths of beate. Results from the employment of these waters In the same line as Oertel's in principle, yet differ- exclusively are gratifying, but in his opinion they are ing from it in method, is the treatment employed by not as great and enduring as from carefully graduated Dr. August Schott, physician of the baths of Bad baths of warm alkaline waters, supplemented finally Nauheim, Germany. His system is set forth in the by such as are rich in carbonic acid. With these Berliner Klinische Wochenschrift Nos. 33, 34, 35, preliminary remarks we pass to the consideration of

The scientific administration of mineral waters actain an increase in its bulk; or, in other words, to cording to pathological process in each case is most promote hypertrophy and lessen dilatation. In this desirable, but as yet Schott thinks it is seldom done. there is nothing new or original. It is only the means With but a few exceptions the literature of Balneo

therapeutics is stuff and nonsense. Baths are pre- ence should not exceed 1° F. at a time, great care scribed in accordance with general indications instead being exercised to guard against a chill. of the peculiarities of each individual disease. System It is advisable to intermit a day in the baths, either is necessary to the achievement of the best results. after the first or the second one. They may then He therefore presents his method of employing baths, be taken daily, with the exception of one day in the since its worth is attested by fourteen years of ex- week. As the strength of the heart increases, thus perience. Accordingly, patients whose diseased allowing a gradual lowering of the temperature, the hearts are in the stage of ruptured compensation, length of stay in the water and the strength of the should begin with diluted baths free from gas. It is salts in solution can be increased. The former should not of interest to know which of the springs in Bad not exceed twenty minutes, while the latter may be Nauheim are first used, and hence we shall give only made to reach the strength of the waters of Bad his directions for the preparation of artificial baths. Nauheim. Finally the patient is able to endure a To this end he recommends the addition of one to water impregnated with carbonic acid. The effect one and a half parts of common table salt, and chlor- of each bath upon both the heart and the whole orate of lime to every one thousand of water. The ganism must be the guide to any increase in length bath at first should not exceed ten minutes, and for or strength of the bath. If the feeling of fatigue delicate persons not five. If the individual be rheulast an hour or two, the next day's bath should not matic, or aniemic, or be specially sensitive to cold, be in anywise strengthened. The baths have been the temperature of the bath should be 86° F.; since, followed by complete results only when immediately if the heart's vigor be below par, the circulation is not afterward the pulse is found to be slower and by the brisk enough to react well against any chilling of the sphygmomanometer stronger than before. A persurface of the body. Care should be taken to have ceptible diminution in the size of the pulse should this temperature maintained, since a difference of 2° also be demonstrable, although it may return to its less may produce an injurious chill in an individual former dimensions during the day. A further conwith a weak pulse, an already cool skin and impaired sideration of the subject will be found in our next issue. nutrition. If the blood be driven in too large quantities into the interior, the resistance to be overcome THE TREATMENT OF RUPTURED LIGAMENTUM by the weakened heart is augmented, and the cardiac disturbance is increased. The pulse becomes more rapid, smaller and more irregular, and dyspnæa greater.

remain long enough in the water to have the reaction often acts in causing fracture of the patella." succeeded by a feeling of chilliness. In such an The first case (personal) recorded by Dr. Sands take gradually cooler and cooler baths. The differ- complete rupture of the ligamentum patellae, close

## PATELLÆ.

Of the many valuable papers read before the New York Surgical Society during the past year, none were If the patient be of a rheumatic diathesis, he must more interesting than one on "Rupture of the Ligawait longer than others before trying cooler baths, mentum Patella, and its Treatment by Operation," since there exists a tendency to fluxions to the seats read on December 8, by Professor Henry B. of former attacks, and this must be guarded against. SANDS. The comparative infrequency of rupture of A higher temperature than 86° or possibly 88° F. this tendon as compared with fracture of the patella ought never to be allowed, since the effect of the -about one to twenty-five, as gathered from the bath is lost; while, on the other hand, this degree of records of the New York, Bellevue, Roosevelt, and heat proves derivative, lessening congestion of in- St. Luke's Hospitals-need not detract from the internal organs and promoting free perspiration. The terest of the accident, and certainly does not diminpatient should be instructed to lie motionless for the ish the importance of skilful treatment when it occurs. first half minute, until he feels perfectly comfortable. The rarity of the accident is probably to be ascribed If reaction does not set in at the end of that time, to its great strength and thickness, "its relatively the temperature of the bath must be increased, slight exposure to direct injury, and to the great Special care must be had that the patient does not mechanical advantage with which indirect violence

event he must recover his warmth by rapidly raising was that of a man who had had a fracture of the the temperature of the bath, and then leave the water right patellaten years previously. Five months later so soon as that is effected. The next bath must then | it was again fractured, the result being fibrous union be warmer and of shorter duration. As the patient between the fragments, at a distance of two inches. becomes accustomed to the temperature prescribed. The accident for which he was admitted to the hosand his circulation and nutrition improve, he may pital in 1882, when Dr. Sands first saw him, was a

a horizontal position, and ice applied to the knee. antiseptic used was a 1:1000 solution of corrosive On the ninth day, the pain and swelling having sub- sublimate, and the wound afterwards covered with ber bandage applied. About five weeks afterwards moss-bag, moistened with bichloride solution, and a water-glass bandage was applied from the ankle to fastened to a long, straight wooden splint, to which a the thigh, and the patient allowed to walk; and he foot-piece was attached. Two months afterwards, a splint. He was examined in November, 1885, splint was applied, which was used two or three three years after the injury. Having disobeyed in- months, and then laid aside. structions, after leaving the hospital, by removing the The final result in this case has been most satisseemed to be as strong as the other.

from the spine of the tibia," which was covered by a limb; and, whenever this time arrives, our time the ligament, in good condition, was attached to the of its ligamentous attachments may well be abanpatella. There was no union between the severed doned in favor of sone form of operation calculated they were brought together after being fastened. It was necessary to make deep oblique and transverse incisions in the quadriceps tendon before the upper upper and lower ends. A bone drain was placed in family out of school for two or three weeks, and

to its inferior extremity. The limb was extended to each side, in openings made for the purpose. The sided, the limb was suspended vertically, and a rub-jodoform gauze. The limb was then enveloped in a was discharged on the fourth day after this, wearing when the patient was allowed to get up, a leather

splint and using the limb more freely, his knee re- factory as regards usefulness and mobility; and this mained stiff for five weeks, when mobility was sud- and the impunity with which the knee-joint can be denly restored by what must be regarded as a rather opened, and even somewhar roughly handled, with fortunate strain. Examination showed that the liga- strict antiseptic precautions, certainly seem to warrant ments were equally long on both sides, and one leg opening of the joint in such cases. Success or failure in these cases seem to depend entirely on the The second case recorded in the paper was treated proper observance of antiseptic principles; and we by operation. The ligament, as nearly as could be need not cite other operators than Dr. Sands to show ascertained, had been ruptured close to its inferior that the most formidable operations can be done on attachment, the accident having occurred at sea eight the knee-joint with a relative and absolute minimum months before he came under the care of Dr. Sands. of risk by following out the Listerian principles. Three months after the accident the joint was incised. Even the student of a few years ago can remember to let out a collection of fluid, but no attempt was the reluctancy with which the peritoneal cavity was made to repair the injury. A longitudinal incision, opened, and to-day few operators hesitate to open it six inches long, was made in the median line on the for exploratory purposes. We must heartily endorse anterior aspect of the knee, with the centre of the the opinion expressed by Dr. Sands when he says incision opposite the lower edge of the patella. It that it is reasonably safe, "and I cannot doubt that was subsequently found necessary to lengthen the the operation for opening the knee-joint is already, incision to nine inches. "On exposing the injured when properly performed, far safer. I confidently parts, in doing which the joint was freely opened, it anticipate the time when skilful and careful surgeons was found that the ligamentum patellæ was torn away will be able to divest it of all danger either to life or small amount of fibrous tissue, but enough to afford honored, but clumsy, tedious and uncertain method a hold for sutures. A little more than one inch of of treating both fracture of the patella and rupture ends of the ligament, and it was with difficulty that to secure an immediate union of the divided parts."

#### REPORTING CASES OF INFECTIOUS DISEASE.

There is no part of a physician's duties that reend could be sufficiently drawn down to be connected quires more careful attention and strict accuracy of with the lower; and it being evident that considerable judgment, than in the diagnosis of such infectious force was necessary to secure and maintain apposi- diseases as he is required to report to the health tion, two strong silver sutures were used, the ends authorities of our towns and cities. And it would twisted, "cut short, bent flatwise, and buried in the appear from some recent judicial decisions that no wound. The mucous and alar ligaments were found part of his duties involves more danger both to his redundant, and were partly removed with the curved own reputation and his pecuniary interests. To rescissors. The incisions in the capsule of the joint port a child having only a catarrhal sore throat as a were closed by catgut sutures," and the external case of specific diphtheria is equivalent, in many wound united in the same manner, except at the cases, to shutting all the rest of the children of the each extremity of the median incision, and one on keeping the whole family in semi-quarantine. Yet

this is a very frequent mistake, with one class of sent one of the medical examiners of that Departpractitioners at least. A less frequent mistake, but ment, who, after examining the case, confirmed Dr. one which we have known to occur several times, is Purdy's diagnosis, and the patient was removed, conby a fine miliary rash, scarlet fever. But the most contagious diseases. The sickness proved of short serious of all this class of errors consists in pronounc- duration, and the patient brought suit against Dr. accidentally accompanied by fever of a transient result was that the jury awarded the patient a judgcharacter. It is more serious because it generally ment of five hundred dollars against Dr. Purdy, involves the removal of the patient to the pest-house or small-pox hospital, where he will be certain to be exposed to the contagium of that disease if he is not already laboring under it. No less than three cases have come under our own observation in this city, in attending physician, and were prevented from a journey to the small-pox hospital only by a timely correction of the diagnosis. And it is not many years since a patient affected with measles was pronounced by the Medical Examiner of the Health Department to be laboring under small-pox and was removed to the pest-house, where she soon recovered from the measles, but in due time was actually attacked with small-pox contracted in the hospital to which she had been taken by the health authorities.

by carelessness in not obtaining a full history of the development of symptoms, or in an attempt to make a positive diagnosis before the disease has progressed far enough to enable the most skilful to render a reliable opinion. The practitioner often feels himself in a dilemma concerning such cases. If he hesitates or delays for more decided symptoms, and the case proves to be of an infectious or contagious character, he is liable to be censured for delay in reporting to the Health Department as well as by those who may be more or less in contact with the patient. If, to avoid this, he allows himself to make a hasty diagnosis, and, as some say, to be on "the safe side" pronounces it contagious and reports accordingly, he than in the first case, as was to be supposed. makes himself liable for all the damage that may follow to the person and business of the patient, if the resulting history proves his diagnosis to have been erroneons. Nothing could illustrate more fully the necessity of more attention to the clinical study of diagnosis as a part of the education of every medical student.

These thoughts have been suggested by a case recently brought in one of the courts of New York City. Dr. A. F. M. Purdy, a practitioner of experi-

the calling of a simple evanescent fever accompanied trary to her own wishes, to a public hospital for ing a case to be varioloid or small-pox, which is only Purdy for damages on account of alleged erroneous varicella, measles, or perhaps a few pimples of acne report of her case to the Board of Health. The notwithstanding that both he and the medical examiner of the Health Board still claimed that their diagnosis was correct. It will thus be seen that in the matter of infectious and contagious diseases, the practitioner stands between two dangers. which measles had been pronounced small-pox by the fails to report a case to the Health Department he is liable to prosecution and fines, and if he does report it and subsequent events throw the least doubt upon the correctness of such report, he is liable to prosecution by his patient, and heavy damages at the hands of a jury.

#### REGENERATION OF DIVIDED TENDONS.

The method which was applied by Gluck to the human subject has been recently studied anew by MM. FARGIN and ASSAKI on rabbits; the object being to A large proportion of such errors are caused either ascertain the best method of causing regeneration of divided and shortened tendons. It will be remembered that Gluck joined the cut ends of a divided tendon by means of a bridge of catgut threads. Fargin and Assaki, having excised a portion of the tendo Achillis of a rabbit, filled the gap with catgut threads, strict antiseptic precautions being observed in order to ensure primary union. The animal being killed on the forty-ninth day, examination showed that the catgut threads were replaced by fibrous tissue, not identical in structure with tendon, but closely resembling it. Another animal operated upon in the same way was killed on the one-hundreth day. The newly formed tendon was much more fully developed

The experimenters then substituted portions of tendon for the catgut, the tendons being taken indifferently from animals of the same and different species as the animal operated upon; portions of tendon from a sheep, a dog, chicken, and duck being used on rabbits, and vice versa. The zoological relationship seemed to have no effect in promoting or detering union by first intention. Notwithstanding this, the experimenters assert that when primary union is impossible, and some substitute must be used for ence and high standing, reported a case to the Health lost tendon-substance, success will be more probable Department as one of small-pox. The Health Officer if the substitute be taken from an animal nearest to man in zoological order. We do not see that this necessarily follows. The results of these experiments are satisfactory, and are certainly sufficient warrant OBSTETRICAL SOCIETY OF PHILADELPHIA. for the performance of the operation on man, of course under strict antiseptic measures.

SMALL-POX, CHOLERA AND YELLOW FEVER.

From the circular issued from the office of the National Board of Health, dated Dec. 30, 1885, we learn that during November and December, cases of small-pox continued to occur in Montreal and its vicinity, and two cases in Toronto. In Europe cases of the same disease have been reported in London, Bradford, Bristol, Glasgow, Edinburgh, Paris, Bordeaux, Rheims, Antwerp, Zurich, Genoa, Leghorn, Venice, Prague, Trieste, Munich, St. Petersburg and Warsaw. Cases and deaths from cholera are reported as having occurred in Calcutta; in Osaka and Kioga, Japan; in Navarra and Zamora, Spain; in Finisterre, France: and in the Provinces of Palermo and Venetia, Italy. Yellow fever is mentioned as existing at Havana and Caracas only.

It will be seen that the contagium of small-pox is very widely diffused in Europe; and though steadily diminishing, is still destroying several lives each week in Montreal and its vicinity on this side of the Atlantic; while just enough of cholera lingers in Spain, Italy and France to keep the essential cause from becoming extinct during the winter, and to favor its warm season.

DEATH OF DR. WILLIAM MARSDEN.-Dr. William Marsden, of Quebec, Canada, recently died at his residence in that city in his 79th year. He was one of the oldest and most eminent members of the tive sanitarian and had written much in reference to the etiology and modes of spread of epidemic cholera and the means for preventing the latter. He was a firm believer in the contagiousness of the disease. He was a visiting member of the American Medical Association at some of its annual meetings, and his name was on the Council of the Section of ternational Medical Congress, at the time of his death.

CORRECTION.-In stating, in issue of THE JOUR-NAL for January 9, that the January number of the Chicago Medical Journal and Examiner contained a full and connected history of the progress of the Organization of the Ninth International Medical Congress, we should have said the December number instead.

#### SOCIETY PROCEEDINGS.

Stated Meeting, Thursday, December 3d, 1885. THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR.

(Concluded from page 50.) Dr. Keating reported a case of

VESICO-VAGINAL FISTULA,

from notes by Dr. Howard H. Pardee. Rebecca Johnson, colored, married, was admitted to the Philadelphia Hospital in the summer of 1884, complaining of inability to retain her urine, and of a constant bearing down pain in the hypogastric region, a burning pain in the bladder, and of frequent back aches. She had noticed that the urine was sometimes bloodstained in the inter-menstrual periods. She stated that about a year previously she had fallen out of bed and had struck upon a broken chair, one of the rounds of which had entered her vagina, hurting her severely, and that all her symptoms had dated from that accident. Soon after her admission to the house an operation for vesico-vaginal fistula was performed by Dr. M. B. Musser, which relieved her for a time, but soon all the old symptoms returned. In January, 1885, examination revealed an opening from the vagina into the bladder more than an inch and a half in length, involving the neck of the bladder and the posterior part of the nrethra. A pedunculated growth was also found in the bladder, and was removed. No history of venereal disease could be obtained; there was a bad leucorrheea. In May, examination showed an enormous vesico-vaginal fistula; increase and spread with the return of the next the neck of the bladder and the urethra had entirely disappeared. The edges of the fistula were very thick and callous, and anteriorly very little tissue was left beneath the pelvic arch. A small recto-vaginal fistula was also found, and exhibited the same thick, rigid edges. Several deep scars were found on the nymphæ and labia-majora, which seemed to be the marks of healed chancroids. An operation for the profession in that country. He had been an ac- closure of the vesico-vaginal fistula was performed Nov. 15, 1885, but the patient died a week later. The specimens showing the wound closed were exhibited to the Society.

Dr. B. F. BAER presented the specimens and read the report of a case of

HYDRO- AND PYO-SALPINX, COMPLICATED WITH FOL-LICULAR DEGENERATION OF THE OVARIES.

Mrs. H., æt. 42 years, was sent to me some months Public and International Hygiene of the Ninth In- ago. She complained of great pain in both iliac regions, more in the right, radiating into the pelvis and sacrum and down the limbs. She had menorrhagia, and profuse leucorrhoea during the inter-menstrual periods. She dated the trouble from an abortion which had occurred nine years before, and which was followed by symptoms of acute parametritis, from which she had never fully recovered. Examination showed the uterus to be considerably hypertrophied, and fixed as in a vise by an indurated mass on either side of it, which seemed to occupy both broad ligaments,

or to be closely adherent to them. The cervix uteri The fimbriated extremities were glued to the lateral was also badly lacerated, and its mucous membrane pelvic walls. The ovaries were as large as a goodjagged, that I was at first strongly impressed with the terior surface of the broad ligaments. I dissected fear that epitheliomatous degeneration had begun to with my fingers, two being introduced until the right develop. I pursued a plan of treatment designed to tube and ovary were released, when they were drawn reduce the congestion and hypertrophy of the diseased neck, and at the same time to induce an aband ovary were released with still greater difficulty, sorption of the plastic and indurated lymph around but I finally succeeded in ligating and removing firmly to either.

tered my private Hospital in February, 1885, when She went home at the end of five weeks, and has I operated upon the cervix, dissecting away a large been free from the old pain in the iliac region since quantity of tissue for the purpose of making proper four days after the operation. adjustment of the labia and to get rid of the cicatricial tissue. It was not epitheliomatous. I had hoped by this operation not only to restore the cervix to health, but at the same time to induce, by a derivative action, a retrograde metamorphosis in the and advised to rest in the recumbent position for at was soon followed by a severe attack of "flooding." had increased.

and contained, the right, pus, and the left, serum. I now removed, with the dull curette, all of the fun-

presented a surface so hypertrophied, abraded, and sized hen's egg, and were closely adherent to the posthe uterus, to render the organ mobile, so that an them. Considerable hæmorrhage occurred during operation might be made safe. I only partially suc- the operation, and it was necessary to place a numceeded, for, while the uterus became much more ber of ligatures. The abdominal wound was closed mobile, there still remained a swelling or tumor on with eight silk sutures. The operation occupied more either side of it. These tumors had illy-defined than two hours. The patient slept four hours before borders, were not circumscribed, but were elongated she returned to consciousness, and awoke without and rather cylindrical in form, and fixed to the lateral the slightest nausea, which both she and I dreaded pelvic walls, as well as to the uterus, though not very very much from previous experience. There is not much to say concerning the after treatment, for she I now suspected disease of the fallopian tubes, did not require much. Her temperature never rose and probably also of the ovaries. The patient en- above 100°, and she made an uninterrupted recovery.

DR. B. F. BAER also exhibited

A SMALL FIBROUS TUMOR WHICH HAD UNDERGONE CALCAREOUS DEGENERATION.

Mrs. L., at. 60 years, of Lancaster Co., Pa., a padiseased tissue and organs appended to the uterus. tient of Dr. J. H. Musser, has had two children and I succeeded in the former, and also in modifying all two miscarriages. She had been treated for uterine of the symptoms except the pain in the ovarian re- haemorrhage a number of times during the last fifteen gions. This seemed to be made worse, or at least years. She continued to "menstruate" until she was to become more prominent as the other symptoms fifty-seven years of age. One year afterwards she were improved. The patient was sent to her home, began to suffer from severe uterine tenesmus, which least a part of every day. Later, as she did not im- After this she had frequent recurrence of the hæmorprove, a local treatment consisting of an application | rhages, up to the time of the removal of the cause. of the tincture of iodine to the fundus of the vagina The case had been looked upon as one of cancer, at intervals of a week, with biroglyceride tampons and had been abandoned to the fate which attends almost daily. At the same time counter-irritation that dread disease; but she lingered on and finally applied to the iliac region by means of blistering was came under the care of Dr. Musser, who found on faithfully pursued. Nothing proved of more than examination that the cervix at least was not cantemporary benefit. She began to lose flesh and fail cerous. Through his kindness I saw the lady at her in strength. The fulness at the sides of the uterus home in September, 1885. I must confess that when I entered the room I was almost on the point of She again entered my private hospital, and under quietly saying to the doctor that I believed his paanæsthesia I determined that the fallopian tubes were tient had cancer. She had a marked cachectic apdistended to the size of a small sausage, that the ova- pearance, and there was an odor very like that of ries were also enlarged, and that the tubes, ovaries cancer. I advised that a thorough investigation be and ligaments were all adherent to one another by made with the patient under ether. I found the cerplastic lymph. I advised laparotomy for the removal vix smooth and soft; the os slightly patulous, and of the uterine appendages; the patient readily as- there were several mucous polypi hanging from it. sented. A week later I made an incision three inches There was also a feetid muco-purulent discharge which in length through the abdominal wall-fully two seemed to come from the cavity of the uterus. I inches in thickness-and came upon the omentum, removed the polypi and then carefully passed the which was also very fat. This was adherent by its sound into the uterine cavity; it was large and filled lower border to the pelvic tissues and organs, so that with numerous soft bodies, vegetations, except at I was compelled to dissect it off on the right side one point at the fundus. Here a mass was detected before I could reach the uterus with my finger. which was as hard as marble, and gritty. I next Everything, fallopian tubes, ovaries, broad ligaments, dilated the cervix with my steel dilator—which was uterus, omentum and intestines were so adherent and easily done because the tissues were so soft and dimatted together that it was difficult to differentiate katable—and passed my finger into the cavity. The between them. The tubes were greatly distended finger confirmed what the sound had led me to infer. The patient has had no hæmorrhage since.

and loss of life has resulted from this want of action. for an operation. I have so recently expressed my views on this subject in a paper on "The Significance of Metrorrhagia recurring about and after the Menopause," Am. Jour. Obstetrics, May, 1884, that I refrain from further comment here.

Dr. Parvin, remarked that the last case reported by Dr. Baer illustrates the importance of a careful local examination in severe uterine hæmorrhage, since in almost all cases such hæmorrhage is sympathetic.

Hippocrates was probably the first to observe the discharge of stones from the vagina. He mentions a Thessalian servant who twice passed from the uterus of the committee on what would now be regarded as uterine fibroids which had undergone calcareous degeneration. I have seen in one case in a post-mortem examination between thirty and forty calcified uterine fibroids.

Quite recently there came to my knowledge through a medical friend, the history of a case which very strikingly illustrates the difficulty of arriving at a correct diagnosis in severe ovarian, then uterine pain. A married lady, about thirty-five years of age, and the mother of three or four children, was attacked with sharp pain in one of the ovaries; the pain occurred in violent paroxysms during several months, baffling alike the diagnosis and therapeutics of competent professional gentlemen, then suddenly ceased. But while the ovary was relieved, equally severe suffering came in the uterus; it persisted several months, and only ceased with the discharge from the organ of a sewing needle.

Dr. Charles M. Wilson could not understand how Dr. Baer could make out his diagnosis in the case first described with two inches of fat in the abdominal wall; how could slightly enlarged ovaries and tubes glued down by lymph deposits be detected? He felt sure he could not do it himself.

Dr. Parrish said the diagnosis of such cases is at all times difficult, but the history of the case, with the aid of the examination, will make the examination almost certain, sufficiently so to warrant an exploratory incision. Calcareous degeneration, in fibroid uterine tumors in old women, is frequently found in post-mortem examinations. The calcareous mass may be as large as a child's head.

gous vegetation, enough to fill a large spoon in the the great difficulty of making a diagnosis was an inaggregate, and then again introduced my finger and ducement to present the case hefore the Society. He found that the hard mass was imbedded in the uter- had been eight months in making the diagnosis, and ine wall and pedunculated. I endeavored to remove finally operated with hesitation and many misgivings. it with my finger, and failed; I then pried it out of The pains were chiefly ovarian, but at first he conits nest with one blade of a polypus forceps. It tented himself with repairing the cervix and endeavproved to be a fibroid tumor which had undergone oring to promote absorption of lymph deposits, and calcareous degeneration. I cauterized the entire sur- although there was improvement, the ovarian pain face of the uterine cavity with fuming nitric acid. remained. When the patient returned, the cylindrical mass on the left side was ten inches in diameter, This case is valuable scientifically because it shows and could be outlined per vaginum; the ovary was the fallacy and danger of neglecting cases of metror- as large as a hen's egg. This I could determine by rhagia: first, on the theory that the hæmorrhage is examination under ether; and on the right side a due to the change of life, and therefore physiologi- hard tumor could be felt. This proved to be the cal; and second, on the supposition that because the thick walled tube filled with pus; it was circumscribed hæmorrhage came on so late in life it must necessa- and attached to the broad ligament. I felt sure rily be the result of malignant disease and be per- about the diagnosis, but the adhesions made me hesmitted to run its course unmolested. Untold suffering itate long before yielding to the desire of the patient

#### AMERICAN PUBLIC HEALTH ASSOCIATION.

Thirteenth Annual Meeting, held at Washington, D. C., December 8, 9 and 10, 1885. (Continued from page 48.)

THURSDAY, DECEMBER 10—THIRD DAY.

EVENING SESSION.

Dr. S. H. DURGIN, of Boston, submitted the report

DISINFECTION AND INDIVIDUAL PROPHYLAXIS AGAINST INFECTIOUS DISEASES.

The first prize for the essay on this subject was awarded to Dr. George M. Sternberg, U. S. A.

The second prize for the essays on The Preventable Causes of Disease, Injury and Death in American Manufactories and Work-Shops, and the Best Means and Appliances for Preventing and Avoiding Them, was awarded to Dr. Geo. H. IRELAND, of Springfield, Mass.

At the conclusion of the reports of the committees the President introduced Mr. Henry Lomb, of Rochester, who, he said, out of his comparatively small means, had conferred an immense favor upon sixty million people.

Dr. J. S. Billings spoke in terms of great praise of Mr. Lomb and the compliment he had offered this Association, and moved that Mr. Lomb be invited to take a seat upon the platform, and that he be elected a life-member of the Association. This was done by a unanimous rising vote.

The President announced that Mr. Lomb would continue the amount unappropriated by the Committee (which amounted to \$1700) for another year, with such change in any of the titles of papers as the Executive Committee might decide upon.

DR. D. A. SARGENT, of Harvard University, as Chairman of the Committee, then read the

REPORT OF THE COMMITTEE ON SCHOOL HYGIENE.

The uneven manner in which physical and mental training are distributed is shown at once by the fact Dr. Baer, in closing the discussion, remarked that that those schools which have large play grounds attached and a river on which to row boats, never fail to advertise that fact, while those not having such been urged. Mr. Pratt, of London, proposes to advantages give their attention to theoretical train- bury dead paupers in cheap coffins, to be cemented ing. As a consequence, there are dissatisfactory re- with concrete and used in building a breakwater at ports from all sides. Here we have all muscle and Heine Bay. M. Kergovtatz, of Brest, proposes rubno brain development, and the superior mental attainment with nervous prostration. The committee thought that course of training should be universally adopted which actual observation had proved to and the dead could thus be utilized as statuary. most thoroughly distribute physical exercise in proper proportion with the mental exercises of education. timony of medical experts, and setting forth the The youth should also be thoroughly taught the first many and grave objections to the present mode of laws of the body, the necessity of cleanliness, pure burial, Dr. Morris said: If incineration were acair in houses, etc., and not only taught these princi- cepted all these evils would be arrested. It is genples but shown how to practically use their knowledge. erally admitted that this process should be adopted

THE REPORT OF THE COMMITTEE ON DISPOSAL OF THE DEAD.

thoroughly discussed. No doubt the general accept- destructive force on the human race. ance of the germ theory and the surprising discoveries of Darwin and Pasteur concerning the life and office of ground-worms have materially influenced public thought in this matter. Even those who do not favor cremation admit the necessity of reform in the present mode of burial. Cremation is gaining ground in Europe. A bill legalizing the process has been introduced in the French Chamber of Deputies, and is supported by such advanced thinkers as Paul Bert and Tony Renelon. It is proposed to build a large crematory near Paris, and an engineer has been sent to Italy to study the best plans. Three for another year, and to it was referred Dr. J. H. hundred and ninety-six bodies were cremated in Italy during the past year.

A valuable contribution to the subject of inhumation has been recently made by two French writers. The deductions therefrom are that in every cavity dug where organic matters are decomposing there are produced two phenomena which jeopardize the lives of those exposed to their influence, viz., the great and rapid disengagement of carbonic acid, and

notable diminution of oxygen in the air. The Spanish Cortes has passed a bill allowing cremation. The dreadful scenes in Granada, where hundreds of bodies laid for days uncovered during the late cholera epidemic, no doubt influenced the the legislation. Germany is also adopting cremation, and the Berlin Verein für Innere Medicin has declared that the best authorities in the field of hygiene have clearly proved that cremation is the safest preventative against the spread of contagious diseases by corpses. There were 186 cremations in Germany last year. In Denmark the subject is exciting marked attention. At the meeting of the Medical Sciences, held at Copenhagen, in 1884, Dr. Lenson presented a report on the cemeteries of Denmark, and their influence on the public health. After a most thorough and scientific investigation into the public health of Copenhagen he concludes that it has been repeatedly demonstrated that pestilential diseases have been traced to the use of water from streams or wells contaminated by the presence of cadaveric decomposition.

Other schemes for the disposition of the dead have

After reviewing in an exhaustive manner the tes-Dr. John Morris, of Baltimore, then presented in all great epidemics and after battles, but it would be wise to extend it to cases of zymotic diseases, such as cholera, small-pox, scarlet fever, and diphtheria. These poisons are preserved for years, and This subject has attracted much attention and been at certain times under certain conditions vent their

FRIDAY, DECEMBER 11-FOURTH DAY.

The Association was called to order at 9:55 A.M., President Reeves in the Chair.

The following were appointed the

COMMITTEE ON DISINFECTION OF RAGS.

Drs. G. M. Sternberg, J. H. Raymond, A. R. Smart, V. S. Vaughan, G. H. Rohe, Joseph Holt, and S. H.

The Committee on Disinfectants was continued Raymond's resolution on Disinfection of Sewers.

Drs. Thos. F. Wood, of N. Ca., S. W. Abbott, of Mass., and Smith Townshend, of Washington, were appointed a

COMMITTEE ON VACCINATION.

The Executive Committee recommended that the

CONFERENCE OF STATE BOARDS OF HEALTH

be invited to become a section of the Association, privileged to elect its own Chairman and Secretary, and that the Executive Committee arrange for its meeting one day earlier than the regular session; and that one day, or a part of a day, be set aside for the sole consideration of questions relating to State Boards of Health. Adopted.

ADDITIONAL LOMB PRIZES.

It was then announced that Mr. Lomb had decided to offer four additional prizes for the best plans for houses to cost \$600, \$1000, and \$1500. These prizes are to be \$100, \$75, \$50, and \$25 each.

A Committee of three, with Dr. J. S. Billings as Chairman, was appointed to prepare a form for

YEARLY, MONTHLY AND WEEKLY MORTUARY REPORTS.

The Advisory Council reported that it had considered the advisability of soliciting

GOVERNMENTAL AID IN PROSECUTING RESEARCHES INTO THE CAUSATION OF INFECTIOUS DISEASES,

and stated that the National Government had not

made adequate provision for the study of such ques- sorbed, but had never seen the slightest influence tions, either in the Army or Navy Departments; and from the amount which is usually given in the eye. it recommends that Congress be urged to appropriate It is exceedingly satisfactory in performing operanecessary funds that these Departments may be proptions, and in removing little motes and pieces of iron erly equipped.

The Advisory Council also endorsed Dr. Joseph

Holt's recommendation for a

A SCIENTIFIC COMMISSION TO INVESTIGATE VELLOW

The following were elected

OFFICERS FOR THE ENSUING YEAR.

President-Henry P. Walcott, of Massachusetts. First Vice-President—T. S. Coverinton, of Toronto. Second Vice-President-G. B. Thornton, of Memphis.

Treasurer-J. Berrien Lindsley, of Nashville.

Secretary-J. Irving Watson, of Concord, N. H. Toronto, Canada, was chosen as the place for the next annual meeting, on the first Tuesday in October, 1886. Memphis was strongly urged as the place of meeting, and the Association will probably go there in 1887.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, January 4th, 1885.

THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR.

Dr. D. R. Brower read a paper entitled

THE EFFECTS OF COCAINE ON THE CENTRAL NERVOUS SYSTEM.

(See page 59.)

tities of the coca leaf, without injury.

Dr. D. R. Brower said that in the early history far as anæsthesia was concerned. of Peru the Catholic Church authorities sought to terious effects upon the people. But it was imposmental deterioration as that mentioned in the paper: while these people were capable, under its influence, sallow, emaciated people, with intellectual capacity very little above the brute creation.

been wholly in connection with local applications on the eye. He had seen one case, in which he had placed cocaine in both eyes for an operation, in which it was followed by considerable depression and nausea through the night, but no alarming symptoms. He had twice used it in his office for strabismus, patient felt sick and almost slipped out of the chair, not prolong congestion, and gives permanent relief. and the operation was performed with the patient

or steel lodged in the cornea.

DR. C. W. EARLE said it appeared to him that when Dr. B. was in the Washingtonian Home he got along with a very small amount of the drug, very much less than Dr. Earle had anticipated it would be possible for him to get along with. Dr. B. had informed him that he had been in the habit of taking from 15 to 18 grains a day. After he went into the Home, the first three days he took less than grs. iii, and after that time did not take any. He regained his appetite very well, and appeared to improve in every respect up to the time that his wife and brother or brother-in-law came from Canada to visit him, then he was seized with an idea that he must go home, or at least to Canada, and from that time he was uneasy and did not do well. Dr. Earle said that it seemed to him that there had been more said in regard to the use of cocaine than there was any use in saying. While Dr. Bradley was at the Home he was not unlike an ordinary opium eater; they will all lie, and he would lie, and his friends would lie. The depression which followed withdrawal was somewhat similar, although there were none of the symptoms of dizziness, or nausea and sneezing, which are usually present after the withdrawal of opium.

Dr. Sarah Hackett Stevenson said that she was surprised at the deleterious effects found by Dr. Brower from the use of cocaine in hay fever. She had had a number of cases in which it was used, without any of the symptoms mentioned in the paper. She used a 4 per cent. solution, applying with a Dr. E. L. Holmes opened the discussion by say- camel's-hair brush, or simply by snuffing. Dr. Steving that the South American Indians ate large quan- enson said she had used cocaine a great deal hypodermically in surgical operations with good effect so

DR. W. F. COLEMAN said there are two lines of stop the use of coca in that way because of its dele-practice in treating the narcotic habit; to cut a man off from his drug completely, at once, or to taper sible to do it, they used it clandestinely, and the him off. He believed in depriving him of the drug prohibition was withdrawn. Dr. Brower said that at once. If he found a man being poisoned he would used in that way the result was a similar condition of not add another dose, but stop it immediately. He knew nothing practically of the internal use of cocaine, but was surprised at the grave effect mentioned of performing muscular efforts in climbing the hills by Dr. Brower. Cohn-Mueller asserts that he kills a and mountains of that country, they were a puny, frog with four-tenths of a grain, but to human patients he gave indiscriminately 5 grains and it produced no perceptible ill effect. Locally Dr. Coleman had had DR. E. L. HOLMES said that his experience had some experience with the drug, and there is this point about its immediate effect, it relieves pain in acute otitis, but it is a grave question whether it does not prolong the case, and while it relieves pain it is doubtful if it is better than hot water or other remedies. In its application to the eye there was not this objection, it produces anæsthesia and allows almost placing a not unusual quantity in the eye, where the any operation to be performed without pain; it does

DR. D. W. GRAHAM said that he noticed Dr. Brower lying on the floor, but he suspected it to be a fit of quoted a case reported by Dr. Burchard in the Medfainting at sight of the instruments. He had found ieal Record, in which a patient sustained loss of confrom experience that very minute doses will be ab- sciousness and stoppage of the pulse after an injec-

tion of four-fifths of a grain of cocaine. Dr. Graham doubted very much whether the bad effects were due to cocaine; we get the same effect in many patients Stated Meeting, Friday Evening, Nov. 27, 1885. by injecting water, or by showing them the hypodermic syringe, and he thought it probable that it was simply a fainting fit. There was nothing in the report that would lead to any other conclusion except that Dr. Burchard says it was the result of the injection of cocaine. Dr. Graham doubted the conclusion JOSEPH HAVEN and thought it unreliable.

DR. F. M. WELLER said he had had some experience in the use both of cocaine and the fluid extract of coca. He had never used such large doses as those mentioned, but had seen that very large doses of the drug would produce unpleasant symptoms about the head, dull heavy headache, something like doses of other narcotics. Hypodermically he had used as much as five grains at one time without any unpleasant effects whatever. He was inclined to think that the real difficulty in some of these cases was that some other circumstance was overlooked. It seemed to him that some idiosyncrasy might exist that would make one peculiarly susceptible to this kind of narcotic, and it would hardly be reasonable to charge it all to cocaine. His reading of the history of the use of the drug in South America, where it originated, led him to think that it could be used a long time without injury. He thought one lesson is to be learned from the paper, viz., that no drug should be continued beyond the time of its necessity. That principle laid down and strictly adhered to, the patient would never suffer from the deleterious use of any drug.

Dr. D. R. Brower in closing the discussion, said that Dr. B. bought cocaine wherever he could get it, and he did not know what preparation he used. The other physician mentioned in the paper used Merck's cocaine altogether. He used it for hay fever and took five grains by inhalation every day for ten days. Dr. Brower said that he did not suppose that such disastrous effects as occurred in these cases and others, would result unless there was some weakness of the nervous system; he thought possibly a person perfectly robust and with a well-governed nervous organization could take cocaine with impunity, but a person with a nervous temperament could not use this drug continuously without some such results following. Dr. Brower said his plan of treatment was that of gradual withdrawal, as well with opium and chloral as with cocaine. This plan could be followed with less inconvenience to the patient. Dr. Brower said he was well aware that cocaine was one of the most valuable additions to the therapeutics of hay fever, it had been administered in perhaps thousands of cases in Chicago, and with few disastrous effects. As to the case reported by Dr. Burchard, the Dr. reported it as a case resulting from hypodermic injection, and it struck Dr. Brower as being a reasonable SPECIMENS FROM A CASE OF ARTIFICIAL ABORTION. result in a very susceptible individual, but it might be cocaine poisoning.

#### CHICAGO GYNECOLOGICAL SOCIETY.

THE PRESIDENT, DANIEL T. NELSON, M.D., IN THE CHAIR.

(Continued from page 52.)

Dr. Charles Warrington Earle presented for Dr.

A TERATOM, CORRESPONDING IN DEVELOPMENT TO THE THIRD MONTH, AND BEARING AN ASSERTED RESEMBLANCE TO A PUP.

The following history was read: Dr. Haven had attended the family of Mrs. H. for the past four years. During this time he had had occasion to notice that the younger daughter was a person unusually strong in her likes and dislikes, of a nervous temperament, slight build, yet a sensible, educated, and attractive girl. On the eighth of September, 1885, this young lady, in company with her sister, called at his office to consult him with reference to her condition. He made the following entry in his case-book, as the result of her visit: "Mrs. D., 19 years old, married one and one-half years, always regular as to her courses up to July 21, since then no show. Physical signs point to pregnancy in the sixth week." A few days later he saw her again. She was nervous and highly excited-almost hysterical. She told him in an excited manner that a dog had jumped on her, and that she "hated dogs." She complained of pain in the abdomen, low down.

From that day until the 1st of November, Dr. Haven saw her several times. Each time she was threatened with miscarriage, and each time she declared she was positive she could never carry that child. Her husband and sister told him that, asleep or awake, her mind seemed to dwell continually upon that dog. That she daily wondered if the child would be marked. Mr. D. said that ever since he has known her she has been afraid of dogs; she would always cross the street rather than meet one, and he has often jokingly refused to take her out with him, telling her, as an excuse, that they might see a dog, and she would make a scene.

On the night of November 1, the husband roused Dr. Haven, desiring him to go over and see his wife, thinking it to be only a repetition of former attacks. An examination proved that Mrs. D. was about to lose the contents of the uterus. She was flowing constantly. The os had dilated slightly and Dr. Haven could just reach the presenting part. The history of the miscarriage was the usual one, and the result is seen in the specimen presented. She insisted on seeing the fœtus, and declared it to be the image of the dog that had frightened her.

Dr. Charles Warrington Earle presented

The fœtus corresponded in development to the that the man had a fainting fit. The case was re-fourth month of pregnancy, and was not decomposed. ported in the Medical Record of Dec. 5, 1885; it im- It was closely enveloped in the membranes, and enpressed Dr. Brower as being undoubtedly a case of tire absence of the liquor annii was noticed. Hæm morrhage into the placenta and decidua was not The following history of the case was read:

entire period of pregnancy.

verted into a mummy-like object.

Simonart.

#### DOMESTIC CORRESPONDENCE

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.

Aneurism-Papilloma of the Bladder-A Large Cal- responsibility. From his own experience he would culus from a Boy's Bladder-The Mad-dog Scare-Typhoid Fever in Brooklyn.

in which he referred to a number of ancient popular below the profunda would cause the blood to knock errors which still existed to a large extent, and pointed more loudly at the door of the profunda, when it out the great need of a more enlightened sentiment found that it could not gain admission to the femoral. in the community in regard to the matter.

aneurism developed in the left lower extremity after Mrs. F., American, has given birth to five children, a similar aneurism had been cured in the right, by the youngest 20 months old; labors always normal; ligation of the femoral artery. The second aneurism has a history of anemia for some months', if not was treated in the same way, after an unsuccessful years', standing; last menstruation ended May 20, resort to pressure; which was also tried in the case 1885; in June had a very slight discharge of blood; of the first before operating. Having mentioned during the weeks following she would occasionally that both aneurismal tumors have now entirely dislose a small amount of blood, at other times there appeared, Dr. Read proceeded to discuss the etiology. would be profuse hemorrhage lasting twenty-four In this instance, there was no history of a traumatic hours. She had at one time a white, sticky discharge, origin. The patient was a German about 30 years something like the albumen of an egg. October 1, of age, of good habits, and with no suspicion of began to flow constantly with some pain in back and syphilis. The only external influence that he could sides, particularly the left. Was seen by Dr. St. John fix upon as bearing at all on the case was the fact October 12, at which time he administered the usual that the man, who was a grocer, was accustomed to styptics with rest. She continued to flow, with pain, go in his wagon to market every day or two and for another week, when hæmorrhage was so severe return with a load of groceries, and while thus enand prostration so pronounced, and with the suspi- gaged, the wagon would be so full that he was comcion of placenta pravia it was decided that temporiz-pelled to sit in a cramped position, with his legs ing means should cease. After consulting with Dr. flexed much beyond the point of comfort. "But," Earle, it was decided to induce labor. A catheter Dr. Read went on to say, "I cannot believe that was introduced and allowed to remain twenty-four this, without some internal predisposition, could have hours, when pains came on and patient was delivered caused the trouble. If so, why are not the thousands October 17, 1885. During the entire period of ges- of others who follow the same occupation similarly tation the woman could not detect the usual signs of affected? Whether we look to age, sex. occupation, her former pregnancies. She made a good recovery climate, or any external influence, I do not believe and menstruated November 20. There had been no that we can assign any of them as primal causes in discharge of water perceptible to the lady during the the production of aneurism. I believe we must look first to the condition of the artery itself. We will DR. W. W. JAGGARD thought Dr. Earle's case was find degeneration, either atheromatous or calcareous, a typical example of the condition, technically termed the cause of which we may or may not be able to mummification. The feetus dies, and the fluid con- discover. Having found this condition, I am willing stituents of its body and envelopes are generally to admit that age, occupation, or other conditions resorbed. Mummification is usually observed in may act as exciting causes. From this, as a startingconnection with twin pregnancies. One child is point, I would say that those whose age or condition usually perfectly developed, while the other is con-enfeebles them, those whose occupations most expose them, those who live in a climate which they do not Maceration and munimification of the feetus are ob-served when the membranes are intact; putrefaction, aneurism." In the case in question, he found, as he after rupture and entrance of air into the uterine had said, a possible exciting cause. There was also cavity. Dr. Earle's case was probably not an ex- a possible predisposing cause. While there were no ample of that rare condition, abnormally small amount abnormal heart sounds, the action of the heart was of amniotic fluid. There were no abnormal amniotic at all times very violent, not in frequency, but in foldings, nor the feeto-amnotic bands described by force; and all the medical men who saw the case recognized that it required a great weight to control the femoral artery. He would, therefore, say that in this case the excessive strain on the arteries, caused by an excessive action of the heart, was aided by the patient's occupation, as an exciting cause, in the production of these aneurisms.

In regard to the treatment of such aneurisms, he Insanity and Public Opinion - Double Popliteal said that no method was devoid of great risk and lay down the rule that where compression can be made in the artery above the diseased portion, it At the last meeting of the New York County should always be resorted to as a means of lessening Medical Association Dr. J. R. MacGregor read a the danger consequent upon ligation of the artery. very elaborate paper on Insanity and Public Opinion, In popliteal aneurism compression of the femoral "Thus," he said in conclusion, "it will gradually This was followed by a paper on Double Popliteal and surely distend the profunda and other smaller Ancurism, by Dr. Ira B. Read. The case upon which branches, and enable it more fully to carry on the it was based was one of great interest, as popliteal work of the occluded femoral. It, in the meantime,

you can succeed in filling the aneurismal sac with a clot, and thus effect a cure, so much the better; but if this result does not follow, and you must ligate the femoral, still, I say, so much the better. Thus may we carry to the limb below heat, nourishment, sensation, life; and thus give a wider berth to that dreaded sequel of ligation, death of the limb, and perhaps death of our patients."

Dr. J. W. S. Gouley then presented several specimens of papilloma of the bladder, upon which he made some extended and instructive remarks, in the course of which he said that such tumors were not very common, but it was probable that they occurred This might be but a slight abrasion of the mucous mem- lieved to be perfectly justifiable. brane, caused, for instance, by a small calculus, which had afterwards passed away; but the granulations that of a young physician whom he first saw about resulting from such an abrasion would be sufficient six months ago. In this instance the diagnosis was to afford a starting-point for the villous-like growth, made by removing a portion of the growth with a As to the intermittent character of the hemorrhage pair of small forceps; but the doctor had as yet deing the growths which gave rise to the hæmorrhage able time in this case; but he felt confident that it was followed by an inflammatory process which would inevitably recur in time. blocked up the vessels, and thus prevented a further Besides, it would be impossible to feel, through the now in a fair way to recovery. thickened walls of the bladder, a soft growth of the to practise digital exploration.

Dr. Joseph D. Bryant said that he had recently seen in consultation a case outside the State which he send the children to Paris gave the cases an unusual had every reason to believe was of the kind described interest, but there was no ground for the senseless by Dr. Gouley. At the time of his visit the patient excitement that has been aroused. It is possible was much prostrated; but he had advised perineal that this dog was mad, and it was perfectly right that section as soon as his condition would warrant the every precaution should be taken against the possible operation. He said he would like to ask Dr. Gouley results of the bites inflicted by him; but there is not if there were not some definite symptoms which would the least evidence of an epidemic of rabies among enable us to make a diagnosis of papilloma of the dogs, or any greater liability to the malady now than bladder, as he thought it was now somewhat difficult at any other time. It is by no means certain, howto distinguish this from other vesical affections.

Dr. Gouley then expressed the opinion that a series of signs could undoubtedly be formulated which would be of sufficient diagnostic value to fulfil the requirements of the case. If there were a stone present, there might or might not be hæmorrhage. It was, however, very infrequent in young subjects, and, therefore, when hæmorrhage from the bladder occurred in an individual under 40, without any assignable cause, it was reasonable to suspect something of this sort. The peculiarity of hæmorrhage resulting from papilloma of the bladder was, that it came on at irregular intervals, and stopped spontaneously. Furthermore, the attacks increased in frequency and more frequently than was generally supposed to be severity as time went on, and later there was cystitis; the case. As to their avulsion after opening the while the frequent contractions of the bladder in its bladder through the perineum, probably the safest efforts to expel this sponge-like growth gave rise to instrument for this procedure was that devised by concentric hypertrophy of its walls. But there was Mr. Reginald Harrison, of Liverpool, in the use of something better than symptoms, viz.: a crucial test which it was easy to avoid grasping other tissues of the condition. In every suspected case it was beside the growth to be removed. In regard to the the duty of the surgeon to pass an instrument through hypertrophy of the bladder not infrequently noticed the urethra, and with it remove a small piece of the in connection with such tumors, he said that when-tumor, if any were present. By doing this and subever there was a foreign body or a growth of this jecting the portion of tissue thus removed to microkind in the bladder, concentric hypertrophy and contracture of the organ were apt to result, as time went on, from its continuous efforts to get rid of its contracture was nothing new in this procedure, however, tents by contraction. As to the cause of these as Civiale had done the same thing fifty years ago. papillomata, he believed that in each case there was When there was any doubt about the diagnosis, an some previous lesion which gave rise to the condition, exploratory incision through the perineum he be-

One of the cases described by Dr. Gouley was in such cases, this was probably to be explained by clined to have the operation of cystotomy performed, the fact that the denudation of the membrane cover- There had now been no hæmorrhage for a consider-

At the conclusion of the discussion of Dr. Gouley's escape of blood. In reply to an inquiry whether he remarks Dr. T. R. Varick, of Jersey City, presented a had in the diagnosis of these tumors made use of very large stone which he had recently removed rectal examination, by introducing half the hand into from the bladder of a boy 14 years of age. It the rectum, as recommended by some authorities, weighed seven ounces and four scruples, Troy weight; Dr. Gouley said that he had not; as he did not con- measuring six and three-fourths inches in one cirsider this procedure justifiable under ordinary cir- cumference, and five and one-half inches in another. cumstances, on account of the risk involved in it. The patient had borne the operation well, and was

One of the morning papers has taken a very sensicharacter under consideration. A hard growth might | ble stand in protesting against the mischievous and be detected from the rectum, and in young subjects, demoralizing "mad-dog scare" which has been where the prostate was so small, he was accustomed wrought up as the consequence of the biting of the children in Newark by a stray dog. Pasteur's experiments with inoculation and the determination to ever, that even this one dog really had the disease,

and not a single other case has been substantiated. to the action of the American Medical Association the list. If a person happens to be bitten by any ceed in their efforts at obstructing the meeting of the ill-natured or irritated creature of the canine species, International Congress of 1887. he at once imagines himself in danger of hydrophobia, dog stealing.

either instance.

carrying on the good work. Р. В. Р.

#### LETTER FROM PHILADELPHIA.

FROM AN OCCASIONAL CORRESPONDENT.

The Annual Meeting of the Societies-Election of Officers by the County Medical Society-Election of Delegates to the Association Meeting-The Appointment of Dr. Flint to deliver the Address in Medicine resolutions condemning the action of the American before the British Medical Association—Dr. Philip Medical Association, and requiring the Philadelphia Leidy.

medical societies engaged in the annual selection of Secretary of the Society. It was fully and even their officers. The daily papers are also filled with boastfully acknowledged by several that they had the names of medical men selected as attendants for come to carry their point, even if it required the setthe various hospitals and other charities for which our ting aside of all the laws of the Society. While some city is justly celebrated. Perhaps the most interest-ing and most truly exciting meeting thus far held, ence to and regard for the Code of Ethics, yet more was that of the County Medical Society. This is the than one expressed a belief that this was the entering only organization in our city which is entitled to send, wedge toward the adoption of the New Code, or the delegates to the State and National Associations, destruction of the Medical Society; and one even At the annual election on Wednesday afternoon last, hoped for these results, as he desired to be free. It

Yet, "if a dog has a fit now, all the people of the in New Orleans last May. It was whispered about vicinage are scared, and he is killed and reported for a few days prior to the meeting, that some effort rabid. Throughout New Jersey every stray cur is would be made to commit the County Society to the stoned into desperation, and shot down and added to side of the malcontents, and thus enable them to suc-

Last October, in accordance with a special law of and is in a fair way to work himself into convulsions the County Society, which says: "Nominations for from sheer fright. The result of all this folly is an delegates shall be made at the stated meeting in Ocinfinite deal of discomfort to people whose apprehen- tober by a nominating committee named at the stated sions are excited, and no end of thoughtless cruelty meeting in June, which committee shall present a to innocent and harmless dogs." The craze has ex-ticket of candidates for election to the different deltended in a somewhat mitigated form to this city, and egations of the Society," this nominating committee the Board of Aldermen, responding to senseless and presented a ticket of nominations of delegates to the frantic appeals from irresponsible sources, has fur-American Medical, and the State Medical Societies. bished up its neglected dog ordinance; and the This report was received without a dissenting voice, pound is to be reopened for the encouragement of and, as usual, a copy was sent by the Assistant Secretary to each member of the Society, with the notice Charles Kaufmann, of Franklin, N. J., who was for the January meeting. A day or two prior to this bitten by a dog on November 21, and Ludwig R. meeting, some of the members received a circular Sattler, a veterinary of Orange, N. J., who was bitten asking them to support a different ticket; to quote December 13, have both arrived in Paris, and been their words, "Nominated in the interests of general inoculated by Pasteur; but there is no sufficient eviprofessional harmony." It does not appear as dence to show that the dog actually had rabies in though any effort was made either by the members of the nominating committee or by their nominees. There were reported between November 1 and When the Society was assembled, the first move was December 15 at the Health Office in Brooklyn 165 to suspend the order of business in order to introduce, cases of typhoid fever, with a mortality of about 50 in violation of the by-laws, a ticket not named by the cases; while the average annual number of deaths nominating committee; this was on the motion of Dr. from typhoid in that city for the last ten years has Agnew, who seemed to be the leader of the opposi-been eighty-five. A partial house-to-house inspection to the regularly named ticket. This proposi-tion has already shown the existence of defective tion was opposed by some of the oldest members, and dangerous plumbing in no less than 609 houses and especially by several of the ex-Presidents, as not in the affected districts; but it is said that this in- in order. Now commenced a most remarkable scene. spection must now be discontinued for lack of funds. Hisses, jeers, cries of "order" were hurled full in the The health authorities ought certainly to be upheld faces of the little party thus standing up for the rules in their efforts to seek out and remedy the causes of and asking that they be obeyed. The President such filth-diseases, and if the facts of the case are seemed utterly powerless, or disinclined to stem the plainly presented to the public, it would seem that flood that carried all before it. The "Ayes" and ample means ought to be promptly furnished for "Nays" were demanded and yielded to with great reluctance. The call showed that out of a membership of over four hundred, about one hundred and fifty were in favor, to fifty against the substitution of the new ticket. Of course, after this vote, the ballot was a mere form, and resulted in about the same figures, or even with less opposition, owing to the fact that many now left the room disgusted.

During the balloting Dr. Agnew offered a series of delegates to vote for a reversal of its action. These As usual, this the first of the new year finds our resolutions will no doubt be shortly sent you by the there was an unusual display of feeling in reference was suggested in the conversation which followed in

posed upon him.

The leaders, and those who spoke in behalf of the their prevention and treatment. opposition, announced themselves as "pacificators," endeavoring to promote the harmony of the profession, present, is with regard to the apparent identity of but the remarkable method which they have adopted the tartar emetic with the vaccine and small-pox pushas thus far been productive of a decidedly different tule, both in appearance and prophylactive power effect. It is the cause of most bitter talk in every against that destructive malady, which Dr. Woodaccidental meeting of medical men, and the daily papers are jocosely predicting in this disagreement ment of the close resemblance or mimicry of the of the doctors, a great increase in the sales of patent first and last, and the probable protective value of medicines.

that at least one gentleman on the ticket thus elected investigator, whose name (and the publication) I do is not a member of the County Society, and it is a not clearly recall, had experimentally shown that inquestion whether several were elegible by reason of oculated pus from the tartar emetic pustule produced non-payment of dues. The question of the legality a pustule so much like that from the vaccine virus of this election may yet be brought before the Censors, that they could not be distinguished from each other; or even require a decision of the Judicial Council.

efficient superintendent of the Episcopal Hospital, on memory serves me aright, he thus inoculated and pro-Thursday evening, at Warmley's, No. 931 Girard tected quite a number of men, women and children

the occasion was a very pleasant one.

The appointment of Dr. Austin Flint to deliver the small-pox. Address in Medicine before the British Medical As-

unnecessarily deprived of out-door exercise. Let us virus." work. Spectator.

January 9, 1886.

#### INOCULATION FROM THE PUSTULE OF TAR-TAR EMETIC TO PREVENT SMALL-POX.

To the Editor of the Journal:

Dear Sir.—With similar facts that might be cited, p. 174, and in my work on the "Basic Pathology one of the direst maladies.

the little group around him, that his proper plan was and Specific Treatment of Zymotic, Septic, and Alto resign, but he seemed to prefer to wait within the lied Diseases," in which evidence is adduced of the lines while constantly chafing at the restriction imgin, of all such maladies, and the proper means for

But what I desire to invite special attention to at worth so specifically refers to in his incidental statethe former with vaccination. Now, many years ago It is a well known fact, announced at the meeting, it was stated in some of the journals, that a German and, what is more remarkable, afforded the same pro-A dinner was given to Dr. Samuel R. Knight, the tection against various as vaccination itself. If my avenue. More than forty physicians sat down, and successfully, as demonstrated by their subsequent exposure to and preservation from the contagion of

These facts or observations and speculations open sociation at its session next August, has been a source up a new and wonderful field of investigation, with of much gratification to his numerous friends in this promising usefulness of the highest value in practical medicine—both preventive and curative—that should Our Board of Guardians have just deposed Dr. be taken advantage of by every physician having an Richardson as Resident Physician of the Insane Department of our Almshouse, and elected Dr. Philip outbreak of isolated cases or epidemics of this dread-Leidy, a brother of the well-known anatomist, Prof. ful variolous malady, in the absence of any vaccine Joseph Leidy. Dr. Leidy seemes to be entering upon virus, and the adequate means it affords of protect his new duties with an earnest determination to prove ing by vaccination the unfortunate people exposed of service to his unfortunate wards. It must be re-thereto. Now, as it is the bounden duty of every membered that this department has more than one practitioner to resort to all possible means of prohundred patients beyond its fullest capacity for the tection in such an emergency, it would be obligatory proper care of the insane. More than half of the thereupon to utilize this promising safeguard, and patients are necessarily compelled to sleep upon the further test the matter by inoculating with the pus floor. Dr. Leidy believes that many can be better from the tartar emetic pustule, as well as by the proaccommodated at their homes or in the Almshouse duction of the latter alone, as suggested by Dr. Woodproper. "Some have been in this department for worth, it being apparently identical with that of vayears without having manifested any marked evidence riola, "that pustules produced by tartar emetic may of insanity." Dr. Leidy found that many had been be as good a preventive of small-pox as the vaccine If, however, this be true, it would necessarily hope for him the fullest success in his benevolent follow that those who were pustulated with tartar emetic for other purposes would thus be protected against variola, which is, hence, an important subject of inquiry. Therefore, as this prophylactive method has been experimentally tested with asserted success to a certain extent, it is not only a right thing to do, but even imperative upon every member of the profession, in all cases of necessity to thus act on the the interesting observations of Dr. de Mello, of Rio probabilities and give exposed persons the benefit of de Janeiro, and Dr. B. S. Woodworth, of Ft. Wayne, the doubt for their protection from variola by this Ind., in recent numbers of THE JOURNAL, upon the form of tartar emetic pustule inoculation, until the spontaneous origin and identity of yellow fever with more certain mode of prophylaxis could be secured malarial disease, support the views presented in my by vaccination; especially as the means therefor are paper on the "Unity and Nature of Morbific Poil always at hand, and it is a simple, safe, inexpensive, son," in the first volume of The Journal for 1885, and convenient plan of probable protection against tion could largely, if not positively, be determined dents of medicine who are not only trained by diby comparative experimentation on the lower ani-dactic lectures but also by laboratory exercises on Thus, for instance, tartar emetic pustules the physiological action of drugs. same time in different parts of the body.

important question of the protective efficiency of ative system. tartar emetic pustule or pus against variola might be settled, and if true might be an invaluable discovery. besides would doubtless develop collateral knowledge. This, however, is quite necessary in order to underof the greatest practical value to both mankind and stand readily the changes produced by drugs. the inferior creatures. At all events, it opens up a GEO. L. ZIEGLER, M.D.

Philadelphia, January 9th, 1885.

#### BOOK REVIEWS.

A MANUAL OF OPERATIVE SURGERY. By LEWIS A. STIMSON, B.A., M.D., Surgeon to the Presbyterian and Bellevue Hospitals, New York, etc. Second Edition. 8vo, pp. xxiv, 506; 342 illustrations. Philadelphia: Lea Brothers & Co., 1885. Chicago: Jansen, McClurg & Co.

Dr. Stimson tells us in his preface that in preparing the second edition of this work he has sought to indicate the changes that have been effected in operative methods and procedures by the adoption of antiseptic methods, and to describe such additions and substitutions as have been favorably received; and of operations on the peritoneal cavity. The reputation of the author is quite sufficient guarantee that the work has been well done; but to see how well it has been done we must read the book. In the way of a manual of operative surgery it is all that can be desired.

A Text-Book of Pharmacology, Therapeutics AND MATERIA MEDICA. By T. LAUDER BRUNS TON, M.D., D.Sc., F.R.S., F.R.C.S., etc. Adapted to United States Pharmacopœia by Francis H. Williams, M.D. 8vo, pp. 1035. Philadelphia: Lea Brothers & Co. 1885. Chicago: Jansen, Mc-Clurg & Co.

But, independent of such contingencies, this ques- what novel, and adapts it especially for use by stu-

could be developed on, as well as the pus therefrom In order to save repetition the author devotes the inoculated into the udder of a heifer, followed, after first part of the book to a description of the methods the healing and subsidence of the consequent local employed for discovering the physiological action of and constitutional effects, by the insertion of vario-drugs upon the various organs of the body. Not lous or vaccine matter to ascertain whether either or only does this enable him to avoid repetition, but both would "take." Or either of the two, variolous also to contrast clearly the action of various drugs or vaccine virus, with the pus or pustule of the tartar on the same tissue or organ. The first chapters of emetic, might be introduced simultaneously in differ- this section are devoted to a consideration of "Cirent parts of the same udder or animal to determine cumstances which Affect the Action of Drugs," such whether there was any relative controlling influence as fasting, habit, climate, etc., and the action of drugs exercised upon each other. The same plan might on blood and the lower organisms. In the remainbe adopted in human beings, as in double or multi- ing chapters the action of medicines upon individual ple vaccination, with the latter first and then tartar tissues and organs is considered. Chapters are deemetic pus or pustule, and conversely, or both at the voted to the action of drugs on muscles, nerves, spinal cords, brain, special senses, respiration, circula-Thus, by these and other safe experiments, this tion, digestion, tissue change, excretions and gener-

This portion of the work is excellent. Much information is given of a purely physiological character.

The last half of the work is devoted to a concise new field for investigation, which those who have the consideration of the subjects of Materia Medica. the opportunity could cultivate with advantage to The preparations, properties, tests, doses, actions themselves, science, humanity, and the lower forms and uses of each drug are given. Drugs belonging to Inorganic Materia Medica are first described, then those of Organic, Vegetable, and lastly Animal Materia Medica. The two last groups are taken up in the order of their natural classification.

The author is so well known for careful and faithful work that further comment is scarcely necessary. The book can be used advantageously as a text-book in any college, but to the best advantage in those in which instruction is given in the physiological laboratory as well as in the lecture room.

THE PRINCIPLES AND PRACTICE OF MEDICINE. By CHARLES HILTON FAGGE, M.D., F. R. C. P., Physician to, and Lecturer on Pathology at, Guy's Hospital, etc. Vol. I. 8vo, pp. xv, 1040. Philadelphia: P. Blakiston, Son & Co., 1886. Chicago:

Since all who know anything of Dr. Fagge know the chief alterations and additions being found in the that he was a very learned man, and a hard and most passages treating of excision of bones and joints, methodical worker, we must regret that this work was not published under his immediate supervision. The book is a strange mixture of satisfactory information and unsatisfactory generality. It is painful to be obliged to say this of the work on which the lamented Fagge spent the last twelve years of his life. It is in the matter of treatment that the work is most unsatisfactory; in dealing with other things the book is almost cyclopædic in the information contained in it. The first volume treats of "General Morbid Processes," "Specific Diseases," "Diseases of the Nervous System," and of the "Respiratory Organs." The arrangement of the chapters, sections and subsections is deplorably bad, reflecting alike on the editor and the publisher; and the first volume of 1040 pages appears without This work merits praise. Its arrangement is some- an idea. No definite order seems to have been

followed out in treating of diseases or any one disease.

In spite of these defects we must feel that there is an immense amount of valuable material in the work, and that it would contain very much more could the particularly, the Sections on "Diseases of the Nervous System" and on the "Neuroses." To few books would we more willingly have given unrestricted praise than to this. We can but hope that, for the good of the second volume, the editor and, especially, the English publisher have had their attention called to the more prominent faults in the first.

#### ASSOCIATION ITEMS.

#### INFORMATION OF IMPORTANCE TO ALL MEMBERS OF THE AMERICAN MEDI-CAL ASSOCIATION.

Membership.—Every one who attends an annual meeting of the Association as a delegate pays at that time five dollars, and thenceforward becomes a Permanent Member. He continues as such as long as he remains in good standing in the body from which he was originally sent as a delegate. As a Permanent Member, he must pay Five Dollars Annually, when notified by the Treasurer, whether he attends the meetings of the Association or not. Payment of annual dues entitles him to receive the weekly JOURNAL of the Association for one year.

MEMBERS BY APPLICATION are such as have not become Permanent Members in the manner above indicated, but apply to the Trea urer for membership, forwarding at the same time to him five dollars and the certificate of the President and Secretary of their State or local society, that they are in good standing in such society. They pay five dollars annually thereafter, when notified by the Treasurer. Members by application can join the Association at any time, and they receive regularly the weekly JOURNAL.

WHEN DUES ARE PAYABLE.—The annual dues from Permanent Members are payable to the Treasurer at the time of the annual meeting of the Association, or immediately thereafter. The payment entitles the member to receive the JOURNAL for one year from the following July. Payment for 1885, for example, entitles the member to the JOURNAL from July, 1885, to June, 1886, inclusive.

As some of the members have not yet forwarded to the Treasurer their dues for 1885, they are urgently requested to do so at an early day. Having entered upon another year of membership, they are morally official LIST OF CHANGES IN THE STATIONS AND and legally responsible to the Association for the payment of their annual dues, having already received TO JANUARY 8, 1886. for three months of the new year 1885 the Jour NAL of the Association.

SUBSCRIPTIONS TO THE JOURNAL, from those who are not members of the Association, should be for warded to the office of publication, 65 Randolph Street, Chicago, and not to the Treasurer; but all payments of annual dues must be forwarded to the Treasurer, Lock Box 1274, Philadelphia.

DEATHS.—When a member of the Association, who is in regular receipt of the JOURNAL, dies, his family or other representatives are requested to inform the Treasurer at once of the fact.

distinguished author have lived to see it through the PAYMENT OF DUES FOR PREVIOUS YEARS.—As a press. The chapter on "Fever," the third in the few members of the Association are still in arrears book, is very interesting and instructive, as are, more for payment of dues for 1883 and 1884, they are requested to forward at once to the Treasurer the amounts for which they are indebted to the Association.

> Transactions of the Association.—These annual volumes, thirty-three in number, to 1882 inclusive, may still be obtained, with few exceptions, from the Treasurer, at reduced prices. The Index to these volumes will be forwarded on receipt of One Dollar. An opportunity is thus afforded to complete sets of these valuable publications, or to obtain important papers and works which are daily becoming scarce.

RICHARD J. DUNGLISON, M.D., Treasurer. Lock Box 1274, Philadelphia, Pa.

#### MISCELLANEOUS.

Medical Society of the State of New York. The eightieth annual meeting of this Society will be held in the Common Council chamber, City Hall. Albany, on the 2d, 3d and 4th days of February, 1886.

SECRETARY OF THE SECTION OF OBSTETRICS AND Gynecology of the American Medical Associ-ATION.—In a recent issue of The Journal we gave the addresses of the officers of the several Sections of the Association. In doing so, Charles T. Paine, M.D., of Comanche, Texas, was given as Secretary of the Section of Obstetrics and Gynecology. We are informed from a reliable source that we should have given the name of J. F. Y. Paine, M.D., of Galveston, Texas, as the Secretary of that Section. The official minutes of the Secretary of the Association do not give the initials of Dr. Paine, which gave rise to the error mentioned.

Bequest for the Advancement of Science. -It is stated that about \$25,000 has accumulated under a bequest of Mrs. Elizabeth Thompson, who desires the sum to be appropriated "for the advancement and prosecution of scientific research in its broadest sense." Applications for grants out of this sum should be made to Dr. S. C. Minot, 25 Mt. Vernon St., Boston, Mass. The first appropriations will be made early in the present year.

Major Chas. E. Goddard, Surgeon, died at Ft. Vates, D. T., Jan. 4, 1886.

Capt. Curtis E. Munn, Asst. Surgeon, ordered from Dept. Fast to Dept. Columbia.

Capt. Wm. C. Shannon, Asst. Surgeon, ordered from Dept. Platte to Dept. East. (S. O. 4, A. G. O., Jan. 6, 1886.)

First Lieut, W. D. McCaw, Asst. Surgeon, relieved from duty at Ft. Lyon, Col., and ordered for duty at Ft. Leavenworth, Kan. (S. O. t, Dept. Mo., Jan. 4, 1886.)

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#### ORIGINAL LECTURES.

CARCINOMA OF THE CERVIX UTERI-TALIPES EQUINUS-FISTULA IN ANO.

A Clinical Lecture Delivered at the Mercy Hospital, Chicago, December 5, 1885.

BY EDMUND ANDREWS, M.D., LL.D.,

SURGEON TO THE HOSPITAL.

(REPORTED BY W. G. BAILEY.)

is at least a fungous tumor, two and a half inches in inward rotation is absent, it proves that the head of diameter, filling the upper part of the vagina. It the femur was destroyed by the former disease. The does not seem to have any adhesions to the walls of tendo Achillis is so short that it draws the young shall be obliged to remove its base by scraping. the toes together into the tip of the shoe, and pro-The body of the mass is now removed. The ducing both corns and painful deformities, hence the scraping very readily. We cannot, you know, cut position. We will perform tenotomy upon the tendo very freely in this vicinity for fear of wounding the Achillis. I take the tenotome in my fingers, and inperitoneum. There is not so much haemorrhage as I sert it between the skin and the tendon; and then, had expected, though a small artery is to be seen turning the edge towards the tendon, sever the latter pumping out its contents. I have trimmed away by a cautious stroke; now place a piece of adhesive The hamorrhage has nearly ceased, only a faint ooz- to position.

the curette.

ation has given us a good union of the lip part, but ischio rectal fossa, thus inflaming that part, and pois-

the columella that I made for the nose did not unite with the top of the lip. I must make a perfect union. Adhesive plasters will not be of much service in this case. I will pass silver sutures through the lip and septum of the nose and draw the parts together. Having now firmly restitched the parts, I will send the child to the nurse.

Tenotomy of Tendo Achillis .- This patient has at some former time had hip-joint disease; the head of the femur has been destroyed. If it had been a dislocation with shortening to this extent we should have had a This case appears to be cancer of the uterus. It rotating inwards of the head of the femur; as the the vagina, but only to the cervix uteri. I will re- lady's heel upward, thus producing the deformity tamove it cautiously, as the operation may be attended lipes equinus. The patient, as already stated, has with some hemorrhage, which we will check if neces- one limb much shortened from former hip disease. sary. I will first use the ecraseur to remove the great and must wear an elevated shoe. If she does not have body of the tumor, then I can use the curette. This the talipes cured, the down-sloping foot will always growth covers nearly the entire cervix, so that I slide down the inclined plane of the sole, crowding base of the growth is tough and does not yield to sole of the foot must be brought to the horizontal everything that can, with safety, be removed by the plaster over the wound, and over the plaster a piece scoop; and will now make use of a little chromic of Lister's antiseptic gauze, and cover all with a acid to cauterize what remnants there may be left of dressing of oiled silk, or oiled or waxed paper, any acid to cauterize what remnants there may be left of dressing of offed and of order that the malignant tissue, and wipe out the parts so that one of which makes an antiseptic covering. The malignant tissue, and wipe out the parts so that one of which makes an antiseptic covering. The caustic. We will then treat the wound antiseptically. day or two, tension will be applied to bring the foot

ing can be detected. The extent of this cancerous Fistula in Ano, with Sphacelus of the Scrotum.—growth over the cervix was so great that I am not as This man is a coachman and a favorite of the family cheerful about a cure being effected as I otherwise with whom he lived; presumably, therefore, his habits are good, and his present condition not due either to In a day or two I will make a specular examina- intemperate habits or bad hygiene. He has had tion and, if I find the wound in good condition, will dysentery for some weeks at his home, and was atcauterize the parts again. Using the scoop in this tended by a physician of superior skill. The inflaminstance, was very good practice, but was not of mation was first simply in the mucous membrane of sufficient utility, so the cautery was used. An ordi- the rectum and colon; it grew more intense, and nary bone scoop is about as good as any you penetrated all of the coats of the intestine, until, can use for most purposes, and when the tissues are finally, the connective tissue surrounding the rectum tough, as in this instance, it takes hold better than mortified, the walls of the rectum partially sloughed away, and a large fistula was formed. His softened Double Hare-lip- Re-operation.—The former oper- faces readily passed through the fistula into the

matory process has extended along the perineal lining in front. The dulness did not extend above the subcutaneous tissue to the dartoid tissue of the scro- nipple, and was not marked. In the back it was tum, and in this region produced a redness that pitted wanting. Over this area moist râles with slightly on pressure, like erysipelas. Then the skin of the prolonged expiratory sounds could be heard. Before scrotum mortified. I fear for his life because of his the present illness there had been no cough. condition, though the disease has not been of long duration and his system does not seem to be hope- was slight tenderness in the left iliac region. lessly poisoned as yet. I opened the scrotum yesterday to let out a quantity of serum that had collected ature rose to 105.2°. Diarrhoea and some cough. there. It does not follow that a man must die because of a local spontaneous gangrene. I have seen and cough. cases in which almost the entire skin of the scrotum slonghed off, and the patients have made good re- cough was slightly increased and the expectoration. coveries. His temperature has never risen very high; he has been taking the tincture of the chloride of dulness had increased slightly in intensity though not iron and quinine, and in view of these facts, perhaps in area. Fine and course râles were abundant and he is in better condition than one would suppose. respiration was somewhat bronchial. There was Where the abscess broke externally, a black gangren-some deafness. For several days the patient seemed to ous orifice is plainly visible. Inserting my finger in improve and the temperature fell to 99.2 on the 16th. the fistula, I can, without any difficulty, push it along the perineum to the scrotum. Introducing my finger became less. The diarrhoa continued. On the 19th in the rectum, I find a large fistula connecting that she complained of pain in the region of the rectum, viscus with the ischio-rectal fossa. With a probepointed bistoury, I will sever the tissues between the rectum and the external opening of the abscess, and also make another incision along the undermined perineum towards the scrotum. Having freely opened the parts, I find a great mass of mortified connective tissue alongside the rectum, and a smaller one extending forward beneath the skin of the perineum as far as to the mortified patch on the scrotum. This dead connective tissue is already loose, and we draw it out, as you see, without difficulty. It is very putrid and clip off the loose dead skin and dartoid tissue from the scrotum. I hope the removal of this terri- increasing weakness of the heart. ble mass of decomposing tissue may prevent the blood-poisoning from being fatal. The parts will now be thoroughly sponged and syringed out with corrosive sublimate water, and the patient be taken to his room. (In this case the dysentery recurred again, followed by gastritis and death.)

#### ORIGINAL ARTICLES.

THE PULMONARY COMPLICATIONS OF TYPHOID FEVER.1

> BY F. B. HARRINGTON, M.D., OF BOSTON, MASS.

TYPHOID FEVER COMPLICATED RY CIRCUMSCRIBED PNEUMONIA.

Case 1. Miss G., 25 years old, was seen November 10, 1884. The temperature was 104.5°, the pulse 108, and the respiration 32. For five days she had been feeling poorly, and had suffered with headache and nausea. She had a chill and there had been some cough. The tongue was heavily coated. The bowels were regular. On examining the chest a

oning, more or less, his whole system; the inflam-region of dulness was found at the base of the right

The abdomen was slightly tympanitic, and there

November 11. On the following day the temper-

November 12. Temperature 104.9. Diarrhea

November 13. The temperature 104.7°. The previously viscid mucus, became rusty in color. The

and a poultice was applied to a spot of tenderness.

November 22. A large ischio-rectal abscess was opened by incision, and the rush of pus and gas showed that it had perforated the rectum.

From this time on the patient gradually grew worse. November 25. There was mild delirium, which changed two days later to active delirium. The pulse was gradually becoming weaker. There were abundant râles in both bases behind.

The abscess continued to discharge.

December 2. The patient died. For two or three and horribly offensive. I will now take my scissors days before death there had been an increasing dulness at the bases of both lungs, due to the constantly

> TYPHOID FEVER WITH HÆMOPTYSIS DURING CONVA-LESCENCE.

> Case 2. Mr. C., of phthisical family, 28 years of age, after the usual preliminary symptoms of typhoid fever, went to bed January 22, with headache, coated tongue and pain in the right iliac fossa. Diarrhœa began three days later. The patient went through a mild attack of typhoid, and a little over three weeks after the attack the pulse became normal with a slight evening rise. The pulse was now 96 and weak. The temperature never rose above 103°. Considering the moderate temperature and the lack of exhausting symptoms there was very decided prostration. About this time a slight cough developed, but gave little trouble, and the chest was not examined. The improvement in the patient was very slow. At the end of a month the patient sat up for a short time, but was very weak. Two months after he was attacked he was still unable to be about. His cough had become more troublesome. On examining the chest nothing abnormal was found. The pulse was rapid and weak; this was March 17. Nine days later I was called and found the patient suffering from a profuse harmorrhage following a fit of coughing. At the left apex I found fine and coarse râles with dulness and slightly prolonged expiratory murmur. Two

<sup>&</sup>lt;sup>1</sup>Read before the Section for Clinical Medicine, Pathology, and Hy giene, of the Suffolk District Medical Society, December 9, 1885.

weeks later there was a second though less copious hæmorrhage. A month later the patient had so im- which recovered. Embolic pneumonia was the cause proved that he was able to walk out. The cough of death in five cases. There were 13 cases of pleurisy, continued and still exists, though the man is now eight of which died. There was one case of phthisis. about his business.

fever. No structure of the body escapes entirely. No function is safe. Rupture of muscles, necrosis of nal changes. He found:bones, abscess of the liver, gangrene of the lungs, loss of sight, aphasia and insanity are but a few of the rarer complications. There are two important causes for this multiplicity of lesions. The first and most important cause is the duration and severity of the pyrexia. The second cause, less demonstrable, is the specific poison of the disease. The continued high fever causes parenchymatous changes in all the organs. Hoffmann found only 56 cases out of 161 curred at the outset of the disease, and will be reautopsies in which the heart muscle was normal or ferred to again. nearly so. The power of the heart is greatly lessened. The circulation is impaired and the nutrition of the parts suffers. The respiratory complications in typhoid fever are numerous. Out of 111 autopsies, from Biermer's clinic, the respiratory apparatus was perfectly healthy in only two instances, according to phoid fever are usually marked to a greater or less de Cerenville.º Bertzº makes a report of 899 cases of typhoid fever from Ziemssen's clinic from 1878 to 1883. Among a large number of complications were the following pulmonary, or intimately associated with pulmonary lesions:-

1883. Beetz: !--

	Bronchitis	59
	Cronpous Pneumonia	41
	Catarrhal Pneumonia	14
	Hypostatic Pneumonia	10
	Hæmorrhagic Infarction	2
	Pleurisy with Effusion	22
	Old Pleuritic Adhesions,	2
	Pulmonary Phthisis	19
	Miliary Tuberculosis	2
	Pleuropneumonia	4
	Pulmonary Emphysema	4
	Gangrene of the lungs	I
	Apex Induration	6
	Abscess of Lung	2
M	laking a total of 188 out of 899 cases.	

A report of 250 autopsies after typhoid fever at Basle. Hoffmann:6-

Splenization	3.5
Lobular Pneumonia	3S
Lobar Pneumonia	
Pleurisy	20
Hemorrhagic Infarction	1
Miliary Tuberculosis	4

Goeltdammer, in a report of 783 cases occurring at Berlin in 1874, 1875 and 1876,6 says bronchitis was wanting in only the lightest cases. Hypostatic congestion was found in 40 of those who recovered, and in about one-half of those who died. (There were 130 deaths.)

Lobar pneumonia existed in 11 cases, only one of

Hoffmann, in a report of 250 autopsies at Basle, No disease is so prolific of complication as typhoid says1 that bronchial catarrh extending to the finer bronchi almost always accompanied the early intesti-

Splenization	35
Lobular Pneumonia	38
Lobar Pneumonia	
Pleurisy	20
Pneumothorax	
Hæmorrhagic Infarction	

Two of the eighteen cases of lobar pneumonia oc-

I have included under the heading "Pulmonary Complication," not only true pulmonary lesion, but also lesion of parts intimately associated, as the bronchi and pleura.

The signs of pulmonary lesion occurring with tyextent. Characteristic expectoration in pneumonia is often wanting. Cough in bronchitis is frequently absent. When respiratory lesions are epidemic, as might be expected, there is an increased amount of complication with typhoid fever. Children are found Typhoid fever in Ziemssen's clinic from 1878 to to be more subject to these complications than adults.

As has been already said, bronchitis is rarely wanting in typhoid fever. Lichermeister says:2 "Catarrh of the smaller bronchi is so frequent in typhoid fever, that a certain diagnostic significance may be attached to its occurrence." It may be so slight as to cause little or no trouble, or may be, and especially in children, a very serious complication. One of the chief dangers of this bronchitis is that owing to the great general weakness, the secretion may not be thrown off, and atelectasis and broncho-pneumonia may result. Lobular pneumonia is a common occurrence in typhoid fever. A. Weil,3 owing to the lack of signs, considers it very difficult to differentiate the various forms of consolidation occurring in typhoid fever. He is often unable to determine clinically, whether the consolidation be due to atelectasis, to hypostasis, to lobar or lobular inflammation, or, as often happens, to a combination of these conditions. Lobular pneumonia is the most common form of pneumonia occurring in typhoid fever. It rarely begins with a chill, but there is almost always an increase in the temperature.

Lobar (croupous) pneumonia sometimes occurs during convalescence. At this period it does not differ in any way from an ordinary attack of that disease. There is usually the sharp attack with chill and sudden rise of temperature, dyspnœa, characteristic expectoration and râles. When croupous pneumonia complicates typhoid fever of the second and third weeks, during the height of the disease, many of the ordinary characteristics are wanting. According to

<sup>&</sup>lt;sup>1</sup>Untersuchungen über die pathologisch anatomischen Veränderungen der Organe beim Abdominal-typhus.

<sup>2</sup>Nonwean Dictionnaire de Méd. et de Chir. 36, 590. G. Homalle.

<sup>3</sup>Deutsch, Archiv, f. k. Med. Lepzig, 1885. xxxvii, 308.

<sup>4</sup>Untersuchungen über die pathologisch-anatomischen Veränderungen der Organe beim Abdominal-typhus.

<sup>5</sup>Untersuchungen über die, 1885. xxxvii, 308.

<sup>6</sup>Untersuchungen über die pathologisch-anatomischen Veränderungen der Organe beim Abdominal-typhus.

<sup>6</sup>Deutsch. Archiv. f. k. Med., xx, 52.

<sup>\*</sup>Ziemssen's Cyclopædia, \*Zm. Pathologie und Therapie des Typhus Abdominalis, et cet. | Leipzig, 1885

Homalle, the chill is often wanting; there may be deaths from embolic pneumonia among 783 cases of no rise in temperature, pain is absent or of short dur- typhoid fever. The origin of the emboli was in one ation, characteristic expectoration and râles are sel- case the right side of the heart, in another an old dom present and the cough is infrequent.

weeks of typhoid fever, is the subject of much discussion. It sometimes occurs as a simple complication, and at other times there seems to exist a kind of transition form between the two diseases.

Lépine<sup>2</sup> in his article on "pneumonia," expresses his belief in a form of pneumonia due to the local Hoffmann<sup>8</sup> classes two of the 18 cases of lobar pneumonia which he found as pneumo-typhoid. A short history of one of these cases will illustrate the disease.

Mr. E., 21 years of age, began to suffer with headache, September 4, and had nosebleed. September absorption of secretions which have not been thrown 13 went to the hospital. The breathing was labored, off during the period of great prostration. there were râles in both lungs and dulness and bronchial breathing in the lower right lung. On the typhoid as the result of a hæmorrhagic infarction. It 18th the patient died. On autopsy, croupous pneumay also occur as a symptom of concurrent phthisis. monia of the right side and infiltration of Peyer's, patches and ulceration of the ilium were found. Had makes the frequent examination of the patient more. the latter lesions been absent, Hoffmann would have difficult. For this reason and from the lack of sympconsidered the case one of pneumonia with typhoid toms many of the above complications undoubtedly symptoms. [Typhoid pneumonia. Flint.]

typhoid in which there are no intestinal symptoms, dominal symptoms, diarrhoea, abdominal distension and in which on autopsy no intestinal lesion can be and tenderness with more or less stupor, is the frequent found. He believes that typhoid poison in severe examination of the patient's chest, requiring moving cases makes its entrance through the lungs or has its of the patient, necessary or desirable? Flint advises seat there. E. Wagner, in concluding an article on the frequent change of the position of the patient the subject of pneumo typhoid, says that, with our with a view to prevent hypostasis. This certainly is present knowledge, it is impossible for us to decide desirable. Patients who have kept a fixed position the exact neurological position of the disease. Ex- for a long time will often give signs of hypostasis, act knowledge of the specific germ of the disease which will disappear on assuming another position. will clear this doubt.

to typhoid fever, but may occur in any asthenic fever. of the duration and intensity of the fever. Passive congestion of the lungs often occurs as the result of occur in dependent portions of the lungs. It may be unilateral if the patient for any cause has assumed called hypostatic. When the parts, through ædema, reduced from 54 per cent. to 34 per cent. become devoid of air, an appearance resembling the spleen may be seen. This is splenization. Another result of feeble action of the heart is the formation of thrombi. These becoming detached, may cause embolic infarction of the lungs. Emboli may arise from some septic source. Goldtdammere reports five

perityphlitic abscess, in a third case an abscess of Lobar pneumonia, occurring during the first two the thigh. The origin in the other cases was not eks of typhoid fever, is the subject of much disdiscovered. These emboli may cause gangrene of the lungs, and the pulmonary tissues breaking down, pneumothorax may result. Embolism of the pulmonary artery and instant death is not a rare occurrence.

Like pneumonia, pleurisy in typhoid fever may infection of typhoid fever, in which the pulmonary give little indication of its presence. It occurs fresymptoms are the noticeable ones, and the abdominal quently, but unless extensive, it is very apt to escape symptoms are slight. This he calls pneumo-typhoid. notice. Empyema also occurs, and sometimes independently of pneumothorax. Acute miliary tuberculosis sometimes occurs as a sequel to typhoid fever, but probably not from any direct cause. Phthisis also develops sometimes as a result of the non-

Hæmoptysis, according to Homalle, occurs during

The extreme exhaustion of many typhoid cases exist at times and escape unnoticed. Given a severe Longet thinks that there are cases of pneumo-case of fever with high temperature and marked ab-If this plan be carried out, there will be no additional Cardiac weakness, so common in typhoid fever, is fatigue to the patient from the application of the a direct cause of several of the pulmonary complica- stethoscope. By its use we may learn more of the tions. These complications are in no way peculiar real strength of the heart than the pulse or the heart sounds could give us, and we may get an earlier They are more common in typhoid fever on account warning of the necessity for increased efforts to sustain the heart's action.

Antipyretic measures undoubtedly decrease the cardiac weakness. This passive congestion may lead frequency and severity of pulmonary complications. to ædema. The passive congestion is most likely to Liebermeister reports concerning 1743 typhoid patients, about one-half of whom were treated by cold baths, that the number of cases of pulmonary cona position upon one side, but when it occurs it is solidation was reduced from 14.4 per cent. to 10.9 usually bilateral. This form of congestion has been per cent., and that the mortality of these cases was

#### PENETRATING WOUNDS OF THE ABDOMINAL CAVITY.8

BY S. M HAMILTON, M.D.,

OF MONMOUTH, H.L.

Penetrating wounds of the abdominal cavity, with injury to any one of the contained viscera, may be

<sup>2</sup>Nouveau Dict de Med, et de Chirurg., xxviii.

<sup>\*</sup>Lor, cit, L'Union Méd., xxxviii, 760, Deutsch, Archiv, f, klin., Med., 1884, xxxv, 191.

<sup>1</sup>Loc, cit.

Read before the Military Tract Medical Society, Nov. 10, 1885.

considered if not necessarily fatal, yet always doubt- covered, without any bad symptoms except those ful of favorable termination under any course of which usually attend a moderate attack of local pertreatment. The probabilities of not one, but several itonitis. There was in this case conspicuous absence of the abdominal organs being implicated in the in- of the protracted and unmanageable shock which so jury, the danger from surgical shock, concealed hæm-| often attends cases of wounded intestine, but little orthage, and local or general peritonitis, are con- pain, and no rapidly developed meteorism; and to siderations of extreme gravity. This paper is inconfirm the correctness of the diagnosis, the patient tended to be more suggestive than discursive, and had regular discharges of normal faces about every will be confined to a single division of the subject, second day, until his complete recovery took place. namely: the management of wounds of the intestine, I believe it quite in the range of possibility for very lacerated or incised, from missile, or pointed instru- small missiles, such as bird-shot, to penetrate the

cases is a chapter of dismal failures. A minute an- and give but little trouble. One such case I have alysis of the literature of the subject would be full seen. It needed no special treatment, and fully of instruction and interest, but it is too extensive for recovered. a paper like this, and the records are open and familiar to all. It is only within a very few years that phasis to the doctrine that even here, in these cases anything better than the expectant and palliative of severe abdominal injury, the claims of conservatreatment in these cases has been attempted. It is tive surgery are by no means to be overlooked. true that Larrey and some of his cotemporaries made. The evidence of serious intestinal lesion is gener-some attempts at surgical interference, but so far as ally clear and conclusive. The shock is marked and the records show, the enlargement of the external profound, and disinclined to yield to treatment from sary to find, and close with suture, a wound in the skin, and the shrunken hyppocratic face, show an intestine; whilst no mention is made of that more alarming condition of nervous prostration. Very important procedure (without which all else will be often, but not always, there is bilious or stercoracious vain), the thorough cleansing of the peritoneal sac vomiting. Always great pain, and rapidly developed of all blood-clots and irritating material which, in al-meteorism. If the external wound is large, sulphur-

very few cases was there any departure from the ex- always present, possesses more diagnostic value than pectant and palliative plan of treatment. The tables anything else. It is of course caused by the escape others, the evidence is conclusive that the gut was there is a wide margin for mistakes in diagnosis; tissues are not cut, but separated, have a tendency for its solution. to spring back into place on the withdrawal of the For obvious reasons, wounds of the small intes-

ment, penetrating or traversing the abdominal cavity. bowel and the punctures close up at once, like the Until a very recent period the history of these wound of the hypodermic needle or small trocar,

wound was confined to barely as much as was necest he first. The small thread-like pulse, cold, clammy most all cases, escape from the wounded gut.

The surgical history of the late war records about sight or smell. Aside from this last (which is coneighty per cent. of deaths from this injury. In but clusive), the rapidly developed meteorism, which is include wounds from sabre, bayonet and bullet, and of gas from the torn intestine into the peritoneal sac. pieces of shell, the two last, of course, by far the These are the symptoms generally present. They most numerous. Of nine cases of bayonet wound, are exaggerated or lessened, according to the situasix recovered without any special surgical interfertion and extent of the internal injury. They seem ence. In at least two there was room for doubt as to be plain and conclusive, and easily understood to the fact of intestinal perforation at all. In the on paper, but I presume that in many of the cases wounded, but under such favorable conditions that mistakes which, on the one side, may subject the pather rent was sufficiently closed on the withdrawal of tient to a needless and dangerous operation, and on the weapon to prevent fæcal infiltration, and perma-the other side, cut him off from his only hope of nently, after a spell of local inflammation. It is quite safety. I know of no situation in which a surgeon apparent in these nine cases, that the form of the may be placed, where rapid and correct deductions, weapon had a great deal to do with the favorable from symptoms to conditions, are so necessary as in result. The bayonet has no cutting edge, is gener-these cases of penetrating wounds of the belly. ally blunt-pointed, smooth and polished. A wound What is the matter? is the all-important question, from it approximates that made by a trocar. The and there is but little time which can safely be given

instrument, and close up the wound of entrance.

Gun-shot wounds are far more likely to produce. A missile traversing that part of the cavity almost dangerous consequences. Yet it is quite possible certainly will cut across not one, but several, folds for a bullet, even of large size, to traverse the belly of the gut, making not one, but many wounds by from front to rear, or from side to side, without wound- which poisonous gas and feecal matter are poured out ing the intestine, or scriously injuring any other of upon the sensitive peritoneum. Added to this is its the important viscera. One case of this description greater mobility from outside disturbance and peris found in my own experience. A musket ball pen- istaltic action, lessening thus the chances of cure by etrated the abdominal wall one inch to the left of adhesive inflammation between the folds of the per and a little above the umbilious, passed directly itoneum. Wounds of the large intestine are less through the body, and escaped at a point about one dangerous because it is in some degree a fixture in inch from the spinal column. The patient fully rethe abdominal cavity, is less dislocated or disturbed of injury to any other part of the intestinal tube.

cases are so plain that no one need err. Perfect rest, abstinence from food for several days, stimulation until reaction takes place, and opium from the amount of opium, and the remedy stopped as soon the intestinal canal. as the mercurial fector of the breath is noticed.

largement of the external wound as was necessary to thorough manner possible under the circumstances. reach and close the wound in the intestines. It is peritoneum cut and torn very extensively, without the occurrence of fatal traumatic peritonitis. The for surgical interference that the disease, if left to known consistent with the necessary strength. hardihood to undertake such an operation. The within a year, that not a shred of it can be found. beneficent result is, that now more than seventy-five of unspeakable agony.

by peristaltic action, and a part of it is not covered laparotomy has been resorted to, even those lately by peritoneum. A wound involving this uncovered performed, one fact seems very prominent, that the portion of the large intestine alone, should have less old fear of peritoneal injury still sticks in the minds of the dangerous element in it than the same amount of some operators, and stands in the way of that carefulness of detail and thoroughness which alone The general indications for treatment of these can secure and deserve success. The last case I have seen reported is one by Dr. Parke, of Chicago, the unfavorable result of which was no doubt owing to some blood clots, partly disorganized, found in first hour should be given freely, to quiet the peris-taltic action of the bowel, and keep the irritable overlooked in the dressing. The thorough exploranervous system in subjection. This last is of vital tion of the cavity was rendered difficult, or imposimportance in all cases of abdominal injury, when sible, by the faulty primary incision, made through peritonitis, local or general, is to be expected, whilst the track of the ball, far over to the left side, instead in cases of intestinal lesion it allays the terrible pain of in the linea alba. The incision should be central and prevents, to some extent, the pouring out of gas without reference to the external wound, and large and faecal matter into the peritoneal cavity, by its enough to expose the entire cavity to the closest inpower over the muscular fibre of the bowel. The spection, so that every wound shall be discovered constitutional effect of mercury would seem to be and secured by stitch or suture, all hemorrhage conindicated in cases of this kind where a high grade of trolled, and above all, a thorough cleansing of the peritoneal inflammation is expected. Its purgative peritoneal sac from blood clots and any liquid or action should be carefully guarded by a sufficient solid foreign material which may have escaped from

If any one imagines that this is not a tedious and The main object of this paper is to call attention difficult operation, it is my opinion that his first case to the surgical treatment of certain cases of abdom- will afford him a rude awakening from a foolish dream. inal injury which, if left to themselves, almost without I am told that it is not always an easy matter to find exception terminate fatally. I refer to cases of gun- these wounds, especially of the small intestine, and shot wounds involving one or more folds of the in-still oftener is it difficult to isolate them, so that they testine. The cases are as desperate as can well be may be properly closed. Then there are the differimagined, and if let alone, or subjected to general ent kinds and sizes of solution of continuity, from treatment alone, there is nothing in prospect for them complete division, requiring invagination of the gut, but a speedy and grievously painful death. The surgical expedients carried out by Larrey and others all taxing to their utmost the skill, patience and the were attended with little success. They seemed to have a great fear of wounding and exposing the peritoneum, and contented themselves with as little entered with the safety of the patient should be done in the most

I believe that any and every form of stitch or only recently that surgeons have learned that the ligature known to the dressmaker or the surgeon may peritoneal membrane is but little more susceptible of be needed ir these cases. The glover's stitch, the inflammatory destruction than other parts of the basting stitch, the interrupted suture, and the simple human anatomy. The modern operation of ovari-ligature, all may have their uses according to the otomy teaches us that the abdominal cavity may be kind, shape, and extent of the injury to be repaired. laid open from ensiform cartilage to pubes, its con- Operators have used iron wire, silver wire, catgut, tents exposed to the atmosphere for hours, and the animal tendon, and I know not what else, for this purpose. But I believe most operators have gone back to good old-fashioned silk. And why not? It earlier operators for ovarian disease urged as a reason is animal fibre, in as minute division as anything itself or subjected to any other treatment known to believe that experience proves it as good as the best the profession, was necessarily fatal, sooner or later. for closing these and all other kinds of wounds. It was a good philosophical reason for a bold and Post-mortem evidence is conclusive that the heavy hazardous experiment, and probably, outside of such silk, stump ligature, used in ovariotomy, and dropped a consideration, no surgeon would have had the into the peritoneal cavity, disappears so entirely

I hardly know what to say about "Listerism" in per cent. of these necessarily fatal cases of disease connection with laparotomy for wounded intestine. are completely and permanently cured. The same I believe the spray is mostly abandoned. Many reason for operative procedure is good in these cases consider it an agent of evil, rather than good. We of wounded intestine. Absolutely nothing but death all use a weak solution of carbolic acid to bathe can be expected, preceded by many hours or days hands and sponges and instruments. Is it merely a habit, a "fashion," as much honored in the breach In looking over the literature of the cases in which as the observance? In my opinion the largest logic

which can be extracted from the "noisy pother" of Mr. Lister and his enthusiastic admirers is, that extreme cleanliness and good ventilation are the chief very clearly, that other factors than food are, in this factors in the equation of successful surgery.

The success which has already attended some of our surgeons in the very worst cases of wounded intestine, should give us hope for better things to come. Dr. Bull, of New York, reports a case with seven perforations of the gut, and Dr. J. B. Hamilton another with eleven perforations, both treated by laparotomy, and both made complete recoveries.

The subject should surely enlist in its investigation the best thought and the best work of the profession.

#### THE ETIOLOGY OF RACHITIS.1 BY H. C. HAVEN, M.D.,

OF BOSTON,

Although we can hardly accept Jenner's statement that rachitis is the most common, the most important, and in its effects the most fatal of the diseases affecting children, as holding true in this country, it is yet sufficiently common to make its prevention of great importance to the public health. It is, typically, a preventable disease—so far as serious results to the individual are concerned—if proper treatment is instituted early enough. It might, probably, be absolutely prevented, if we knew the ultimate causes.

My purpose is to briefly present the statistics I have gathered as to the effect of the commonly accepted causes of rachitis on its production in this city.

During the past three years, at the West End Dis-

Total number under p years.   1516.	pensary for Children, there were in attendance	
" of rachitics	pensary for Children, there were is attendance	
Percentage of rachitics	Total number under 7 years	
Total number of colored under 7 years.   00,   1	of rachitics	
Percentage of colored rachities	Percentage of rachitics	
Percentage of colored rachities. 32 79.  Total number of foreign ancestry under 7 years 340.  Percentage of rachities of foreign ancestry. 5.88.  Total number American ancestry under 7 years 1144.  Tachities 4.4	Total number of colored under 7 years	
Percentage of colored rachities		38.
Total number of foreign ancestry under 7 years. 340. " " rachities. 20. Percentage of rachitics of foreign ancestry. 5.88. Total number American ancestry under 7 years. 114. " " " " " " " " " " " " " " " " " " "	Percentage of colored rachitics	42.79.
Percentage of rachitics of foreign ancestry. 5.88.  Total number American ancestry under 7 years. 114.  "" rachitics 4.	Total number of foreign ancestry under 7 years	340.
Percentage of rachitics of foreign ancestry	" rachitics	20.
rachitics	Percentage of rachitics of foreign ancestry	5.88.
" " " rachitics 4.	Total number American ancestry under 7 years	X14.
Description of mobiling of American apparets	" " " rachitics	4.
	Percentage of rachitics of American ancestry	3.50.
Number of ancestry unknown	Number of ancestry unknown	973.
Number of ancestry unknown. 973.	" " rachitics	10.
RACE.		

Classifying the rachitics as to race, we find, of the number where it is known: Colored, thirty-eight: foreign, twenty; American, four. Of the twenty rachitics of foreign ancestry (Provinces included), there were: Portuguese, three; Italian, two; Irish, two; English, two; French, one; Nova Scotian, two; Russian, one; German, one; of mixed parentage, both foreign, four; of mixed parentage, father American, two; of mixed parentage, mother American, one.

Breast	alone	till	3	months,	308.	11	rachitic	s, or	3,57	per	cent.
4.4	- 11	4.6	6	6.6	295.	7	"				cent,
6.6		- 41	9	4.6	137.	10	6.6				cent.
86		11	12	6.6	200,	7	44		3.50	per	cent.
	24	ove	ri	year	60,	3	8.6		5.00	per	cent.
Breast	with	othe	r foo	od till 3	months.	74.	5 rachiti	ics, or	6 75	per	cent.
8.4	11			6	4.0	43.	2 "		4.65	per	cent.
6.6	66	4.6	4.0	9	1.6	83.	3 "		3,66	per	cent.
11		4.6	- 11	12	1.6	477.	9 11		1.04	per	cent.
#1					1 yr.,	381. 1	7 11	01	4,46	per	cent.
Ar	tificial	fee	ding	only, 1	19.	is ra	chitics,	or	10.85	per	cent.
			wher	re food r	ot know	vn,			286		
	4.6		46 4	44 1	16 60	and r.	achitic		2		

<sup>&</sup>lt;sup>1</sup>Read before the Section for Clinical Medicine, Pathology and Hygi-ene, of the Suffolk District Medical Society, December 9, 1885.

These figures need, of course, a further analysis to make them of much value, but they show, I think, series of cases, the original or exciting causes of

Having noticed the frequency of rachitis among the colored in this series-and I have observed this in the attendance at other dispensaries-let us analyze the feeding of the colored children to see if, so far as they are concerned, the dietetic factor is an important one. This was as follows:

Breast,	without	other	food	till 3	mos.,	18.	7 1	rachitics,				
44	"	14	66	9	64	5-	4	et		37.50	per	cent.
Breast	with of	her f		till 3	mos.,	9.	4	rachitic,		14.28		
44	66	**	44	6	11	4.	I I	64		25.00		
41	66	"	"	I2	vear.	16.	8	66		5c.00	per	cent.
Artificia	al feedin	ng on	ly,	vc. 1	year,	16.		rachitics,	or	37-50 1	er	cent.

I recognize the objection, that these statistics are too small to have great weight, but I cannot but think they are sufficiently numerous to show that at least the dietetic factor is not an important one in producing rickets in colored children in Boston; the per cent. of all rachitics among all colored is only a little less than the per cent. of colored rachitics in the artificially fed from birth. And in this series of cases, moreover, many colored children are not counted as rachitic where they only showed slight bone changes. Since December 1, 1884, about the time I began to carefully note any evidence of rickets, the total number in attendance under 7 years has been 495, and fifty-two colored, or 11.5 per cent.

Of the fifty-two colored, twenty-five only were nonrachitic, and twenty-seven rachitic, 51.9. This per cent. even is too small, however, I am very sure, as sometimes, in the hurry of examination, I have neglected any record as some of my charts remind me. The only question in regard to the dietetic factor yet to be spoken of, is this: Is the milk of colored mothers, otherwise healthy, as good an article of diet as the milk of the other races? I have no reason to doubt it or affirm it, except that in many of the cases there is no evident failure of nutrition on the part of the child. I hope later to present some analysis of the milk of women nursing rachitic children.

Assuming, then, the preponderance of rachitis among the colored race in Boston, and granting the effect of the diet they receive not to be a marked one, at least, as I think we are justified in doing, the question arises as to what other cause may be acting, peculiar not to any racial dyscrasia, but resulting from racial or acquired character and habits; that is, are the quarters of the city in which they live more densely crowded, are the tenements they inhabit more damp and cold or having less sunlight; are their habits of caring for their children, especially as to taking them out of doors, different from those of the equally destitute of other nationalities? I can only give my opinion, that all these questions must be answered in the negative. I have no positive information, and hope I may obtain some from others to-night. My experience has been, that the colored are more lavish in expenditure for food and rent than other poor, taken as a class, that in equal ways their

table is better equipped and the food better cooked. can blood, and I have found this to be true in my As for the airing of the children, I do not see how experience in this city. they could be taken out less than the children of the Irish poor, until after they can walk; after that time account for the relative frequency of rachitics in the I have noticed no difference.

mitted but not acting through direct heredity.

known, both parents said to be healthy in 21.

Mother healthy in 4 cases; father dead in 3; 1 cough every winter, well in summer.

phthisis; "never strong in 2;" married at 13 in 1: North Germany, where the disease is rife.

had phthisis and mother died in confinement. Of 31 rachitic white, whose family history was had the time to do in this sketch. known, parents said to be healthy in 23.

Of the 8 remaining, in 3 father healthy; mother had chorea, rheumatism and measles at birth of child

Mother healthy in 3; father, kidney disease, arsen-

ical poisoning, and "not strong."

Mother dead of phthisis in one, with father not strong; father rheumatic in one; mother healthy ex- DIN TREATED BY ABDOMINAL INCISION. - At the

but of course the statements of the parents are of to attacks of diarrhea and vomiting. His illness comparatively little value; I think, undoubtedly, in began rather acutely on September 12, 1885, with this climate the average of health is less in the negro loss of appetite, severe abdominal pain, and later, than the white native or immigrant from the north of vomiting and absolute constipation. He was admit-Europe. How much lower, if any, it is than that of ted into University College Hospital on the 15th, the immigrant from France or Italy, I have no means with a temperature of 102.4, intense abdominal of forming an intelligent opinion.

ence to account for the marked preponderance of men. There was a small patch of slight redness in it may, and undoubtedly does, exert an influence.

the more frequent and severe, the purer is the Africature remaining normal, and the pulse about 90. He

The only hypothesis I can suggest to myself to colored race is that as their natural habitation is Another question must be considered. Are one much farther south than North America, the effect or both of the parents less healthy than the average of the climatic conditions, which are recognized as white of same social condition? If they are, this having a causative effect in rachitics, is exaggerated; may be considered as a causative influence, trans- the purer the African blood the more will the effect be noticed. In other words, there is an inherited Of the 33 colored rachities whose family history is necessity for heat and sun which our climate does not satisfy, and rickets results. It is striking in this connection to notice that of the white rachitics of a for-Bright's, 1 phthisis, 1 rheumatism; in one father had eign ancestry, the majority are born of parents coming from the south of Europe, where the disease is rela-Father healthy in 5; mother dead in one of tively rare, rather than of parents from England and

I have presented these facts principally for the In 2 cases there was phthisis in father and asthma purpose and in the hope of eliciting criticism and and rheumatism respectively in mother; in I father information which shall enable me the better to make a more thorough study of the subject than I have

#### MEDICAL PROGRESS.

SUPPURATION AROUND THE VERMIFORM APPENcepting catarrh which had destroyed septum, specific. meeting of the Clinical Society of London, on De-No history of syphilis in any, nor have I seen cember 11, 1885, Dr. Thomas Barlow and Mr. any rachitic symptoms in a number of confessedly RICKMAN J. GODLEE read a paper relating to a man, act. 20, whose previous history was unimportant, ex-In this comparison we see not much difference, cept that for the last two years he had been subject pain and tenderness, intermittent bilious (not stereo-In any case I do not believe there is enough differ raceous) vomiting, and tight distension of the abdorickets on the ground of the parents' health, though the right iliac fossa. The diagnosis appeared to be between mischief about the appendix and constric-What, then, is the determining cause of this fre- tion of the intestine by a band high up. He was quency? I see no source of any such cause but given opium and iced beef-tea, and ice was applied what must arise from a peculiar predisposition to this to the abdomen. The temperature fell to normal, form of disease in the colored. Is this to be referred and the pulse was about 90, full and soft, the tongue to anatomical basis, as, for instance, are the arteries dry and the color good; but, as the symptoms were of this race larger or wider? I know of no such unrelieved, an exploratory incision was made in the And again, if the statements made to middle line on the night of the 16th. General early me by lay observers are true, that the disease is the peritonitis was found, but lymph only in the neighless common the farther south we go, that would borhood of the cecum, surrounding a collection of preclude any such hypothesis being entertained. I fetid pus. The vermiform appendix was much thickcan find no medical testimony as to its relative free ened. A second incision was made over the right quency.—It is stated, however, to be practically unliliac fossa, and a large drainage-tube was inserted known in tropical regions.—In the writings on African—through it, reaching down to the appendix, a smaller explorations. I have met no notice of such a dis- one being placed in the median incision, which was ease having been noticed among the young, as it closed with sutures. The peritoneum was first washed would probably have been had it existed. Again, 1 out with a solution of corrosive sublimate ( $\tau$  to 500), have been told by lay observers that the disease is. The patient made an excellent recovery, the tempergiven except morphia for the first two days. Thirst abscess. was allayed by means of warm-water enemata. He states of the peritoneum.

the cause being found in the presence of a needle lowing it, the desired result had been obtained. projecting through the vermiform appendix and held thus forming a permanent source of irritation.

that exploratory incisions should always be made in 19, 1885. that region. Mr. Baker's case was remarkable as proving beyond all doubt that foreign bodies might bility which had been denied on the highest authority.

of cases, which were sometimes impossible to diagform appendix were very rare.

the operation. He thought that such a case, with um, as from the position of the supposed abscess

was fed principally by the bowel for some time; beef- others similar to it which were now accumulating, tea and arrowroot were allowed on the twentieth day, proved that the inflamed sac of the peritoneum might and minced meat a fortnight later. No drugs were be dealt with in the same way as that of an ordinary

DR. BARLOW confessed to a feeling of relief that had slight albuminuria a day or two after the opera- no adverse criticism had been advanced to the early tion, and a little later a parotid bubo occurred which surgical interference in this case. He was aware did not suppurate. It was claimed that the uncer-that many physicians of experience were not in favor tainty of the diagnosis justified the exploration, and of it. The result of the case had been perfectly that the early evacuation of the putrid pus rescued satisfactory, and the patient had recovered without the patient from a condition of very great danger and any of that thickening round the wound which was prevented the matting together of the intestines which apt to become a source of future danger. The really would otherwise have occurred. The freedom with important element of the case, after the operation. which the peritoneum might be treated was pointed was the feeding. The abdomen had to be kept at out, and the advisability of withholding food from absolute rest, and hence nutrient enemata had been the stomach for a prolonged period in such cases was employed. The rectum, however, was not usually insisted upon. Remarks were also made upon the tolerant of ordinary enemata after the first day or absence of peritonitis and the presence of albumi- two, and hence arose a serious difficulty which was nuria as points in the diagnosis, and upon the relation only partly to be overcome by the use of peptonized between inflammation of the parotid and diseased meat extract and peptonized milk. Thirst was almost always a serious feature in these cases, the mouth MR. MORRANT BAKER related a case under his and tongue often getting very dry and coated. By own care, in which an abscess in the neighborhood giving the tongue something to do, however, this of the caecum had been evacuated by operation, but difficulty could be got over, and in this case, by which had recurred with a fatal issue at a later date, causing the patient to chew the meat without swal-

Mr. R. J. Godlee observed that he should bear in its position by hard concretions on the inner side, in mind the remarks of the President with respect to making exploratory incisions in the neighborhood of The President described a case in which, with all the cocum. He related his own personal experience the signs and symptoms of peritonitis, an abscess to the effect that the pain in inflammatory affections was discovered and evacuated through a lumbar in- of the caecum is often felt on the left side of the abcision with perfect success. Acute peritonitis was domen. He thought that the patients own history rare without a local cause, and this was very fre- of very sudden onset of the attack was not always quently to be found about the e.ecum. He suggested trustworthy -- Medical Times and Gasette, December

Extra-Peritoneal Incision of a Small Pelvic sometimes lodge in the vermiform appendix, a possi- Abscess.—At the meeting of the Obstetrical Society of New York, on November 17, Dr. W. M. Polk MR. C. J. SYMONDS remarked upon the fact that related this case: Two months before a woman had in Mr. Godlee's case the escape of the pus into the entered his service at Bellevue Hospital with a pelvic peritoneal cavity had not prevented the success of abscess, which pointed in the posterior cul-de-sac. the operation. Such a fact was very encouraging. He opened and drained the abscess per vaginam, but, and would lead to more active treatment in this class although the patient at first improved, she began to have heetic, and speedily lapsed into a condition renose. The ordinary signs and symptoms were not sembling the last stage of phthisis. Thinking that always sufficient to indicate the nature of the attacks there was another accumulation of pus which had of intestinal obstruction or peritonitis which appeared, not been reached, the speaker introduced his finger at times to come on absolutely suddenly. There into the abscess and explored it thoroughly, but could could be no doubt that foreign bodies in the vermi detect nothing. After waiting two weeks longer, the patient was anæsthetized, and a thorough examina-MR. BARKER considered that more decided action tion was made. With a finger in the abscess-cavity, would in future be taken in dealing with these cases, one in the vagina, and another in the rectum, a sus He related the particulars of a case in which he had piciously soft, but not fluctuating mass, about the operated for the relief of strangulation by volvulus size of a pigeon's egg, could be felt behind the left in the presence of acute general peritonitis. Al- broad ligament, between it and the rectum, and apthough the coils of intestine were in places matted parently attached to the pelvic wall just above the together with lymph, he had been able to search the spine of the ischium. There was no pointing or greater part of the course of the small intestine and even bulging in the direction of either the rectum or also the execum, to wash out the cavity and the coils the vagina. The problem was how to reach it. To of intestine, and to return them without difficulty and, go down through the cavity of the abdomen, meant with perfect success. The case had done well since that the pus would have free access to the peritone

and its size, its walls could not be attached to the abdominal opening so as to drain its cavity, and at to believe that pelvic cellulitis in the non-parturient the same time exclude its contents from the abdom- uterus was a rare condition. inal cavity. The enucleation of the entire abscess contents and walls seemed too serious an undertak- better by aspirating pelvic abscesses through the vaging in the patient's weakened state, so the idea of inal roof, and then washing out the sac by simply reaching the mass by laparotomy was abandoned. reversing the current. The next suggestion was naturally that an attempt DR. POLK agreed v from the walls of all these cavities, the number of the but one other path, and that was outside the peri- sequent inflammation. toneal cavity, by going down between that cavity and the pelvic wall. The incision for ligating the use a cautery in his case on account of the close common iliac artery was made, the peritoneum was proximity of important structures, especially the easily pushed back until the brim of the pelvis was ureter. He remarked, in conclusion, that it would reached, then the index finger was carefully and have been impossible to open the abscess by lapareasily worked down along the pelvic wall toward the otomy, and since it did not point, and could not be abscess until the resistance to further progress showed reached through the vagina, there was only the one that he had reached the region of adhesions usually other alternative which he had adopted. If he had surrounding such spots; gently forcing the finger on- another similar case, he thought that he would perward, the abscess-cavity was reached, and about one form the same operation, as no difficulty was met in ounce of fetid pus was evacuated. A drainage tube separating the peritoneum, and that membrane, as was put in and the cavity cleansed. This cleansing was well known, did not seriously resent that prohas been done twice daily, and to date the patient ceeding.—Am. Jour. of Obstetrics, January, 1886. has been well. It was three weeks since the opera-

thought that Dr. Polk was most fortunate in being LINDEMAN, in a short paper on this subject, says that able to detach, and afterwards to open the periton- the late Mr. McNab, of Epping, was the first to call

with a solution of carbolic acid, 1 to 100, or of corwater which had been purified by boiling. He suppuration.

and drain a pelvic abscess through an abdominal-

peritoneal incision.

DR. WYLLE replied that he would drain such an abscess through the vagina if it could be reached, but that if is reformed, it was probable due to pyosalpinx, and hence laparotomy was necessary.

ing the operation.

quently followed or accompanied by cellulitis.

DR. POLK replied that his experience had led him

Dr. Skene believed that he could generally do

Dr. Polk agreed with the speaker, but thought should be made to reach the pus through the vagina, that aspiration was merely a temporary expedient, or rectum, or old abscess cavity. Its remoteness which should be followed up by the radical operation.

Dr. Skene thought that the needle could be left vessels in the involved region, with the presence of in situ, and a fine thermo-cautery knife could be the ureter, made him hesitate to attempt evacuation passed along it as a director, the abscess being thus through either of these cavities. There remained opened with much less risk of hæmorrhage and sub-

DR. POLK said that he would have been afraid to

PARTIAL DISLOCATION OF THE HEAD OF THE RA-Dr. Janvrin had never seen a parallel case. He dius peculiar to Children.—Mr. Sidney H. eum, because it was generally thickened and adher-ent in such cases. "Junior Surgery;" and in Ranking's Abstract for Dr. Wylle said that he had frequently removed 1863, vol. i, there is a paper by Dr. Hodges on the by laparotomy abscesses connected with the tubes subject. M. Goyrand has also paid it much attention. and ovaries. He washed out the cavity afterwards But great doubt has always been expressed as to whether this injury in children under 5 years of age, rosive sublimate, 1 to 10,000, and afterwards with is a dislocation of the radius at the elbow, or a displacement of the fibro-cartilage at the wrist, so diffithought that the tubes were generally the centres of cult is it in children of this early age to get a complete diagnosis. The dislocation has in every case that I THE PRESIDENT asked if the speaker would open have seen, occurred in children under the age of 5, the most common period being between nine months and two years. It is a partial dislocation of the head of the radius, forwards on to the condyle of the humerus, perhaps in some cases reaching the shallow depression above the trochlear surface which goes by the name of the radial depression. It is generally caused by Dr. Byrne asked Dr. Polk if he had ever had some one saving the child from falling by taking hold any trouble from secondary homorrhage. [Dr. Polk of the hand. In elder children, it is caused by nurses replied that he had on two occasions.] DR. BYRNE swinging them around by the hands, or it may result said that he had frequently opened pelvic abscesses from a fall. In the first two cases, the tendon of the through the vagina, and even through the rectum, biceps largely participates in its production. This but that he had never seen any hæmorrhage. He muscle acts both as a supinator and a flexor of the thought that the surgeon should hesitate for a long forearm; but it also flexes the arm on the forearm, time before undertaking such an operation as that when the latter is fixed, as in climbing; and, consejust reported. It was not only difficult to separate quently, any great traction at the wrist causes it to the peritoneum in the manner described, but that be strongly brought into play, and so tends, by reason delicate membrane would certainly be injured dur- of its attachment to the posterior surface of the tuberosity of the radius, to bring the upper extremity of Dr. Skene asked if pelvic abscesses were not fre- that bone forwards, out of its place. (In adult life, I doubt if this partial dislocation ever occurs, but

forwards. Vide Dr. Will, Lancet, June 7, 1879.)

down midway between pronation and supination. 1-100000 inch, is not possible. The person who brings the child rarely knows where some resistance is felt.

After the reduction, it is necessary for the joint to better to measure several hundred corpuscles. be kept at rest by a rectangular splint, the small tin have come under my observation.

children are rather liable, may have been mistaken as to need no comment. for a dislocation, and so led to the confusion, which Journal, Dec. 5, 1885.

the Chicago Legal News, of July, 1885, Dr. MAR-SHALL D. EWELL records some careful examinations age, more especially for medico-legal purposes.

several cases are reported of complete dislocation which is within the limits of personal and instrumental error, according to the highest living authority After meeting with the accident, the child is brought upon this subject, who writes, in substance, that it is evidently in great pain. The injured limb hangs easy to measure 1-50000 inch, but to be sure of

The conclusion to be deduced from the above the injury lies; but generally thinks it is in the figures is obviously that, when a sufficient number of shoulder. Taking hold of the hand causes very great corpuscles are measured, there appears to be an avpain. The elbow is found to be hotter than its fellow, erage size which varies within very narrow limits, and there can always be felt an unnatural prominence, which may possibly be accounted for or at least is on the outer side of the joint. Flexing the arm to a consistent with personal and instrumental errors; right angle and complete pronation can be accom- for though he has carried out the figures to the sixth plished; but, in attempting to flex more, or to supinate, decimal place, he has not the presumption to declare that the results can be relied upon farther than the Reduction of the dislocation is accomplished by fifth place, and have carried out the figures to the taking the hand of the child in the opposite one and sixth only to insure accuracy in the fifth so far as strongly supinating, at the same time that the thumb possible. Another conclusion is, that granting for of the other hand presses on the head of the radius. the moment that it is possible to identify blood by Before complete supination has taken place, a distinct measurements of the red corpuscles, of which he is "thud" will be heard, and the head of the radius felt by no means satisfied, it is reckless in the last deto slip back. One of the peculiarities of these cases gree, if not criminal, to express an opinion upon the is, that the child, a few minutes after the reduction, measurement of less than 100 corpuscles. To exwill move the hand and arm, and will even grasp press an opinion upon the measurement of only ro anything that may be offered to it, without apparently corpuscles—as he is informed has been done in this suffering any pain. These dislocations have a great section within the last year or two-to take the most tendency to recur, especially if not reduced early in charitable view of the subject, betrays such culpable the first instance. I have seen more than one case ignorance of a subject involving such momentous in which permanent enlargement of the elbow-joint consequences as ought forever to invalidate the teshas resulted, through the dislocation not having been timony of one who should swear so recklessly. In a diagnosed and properly treated in the first instance. case involving the issue of life and death it would be

An examination of the unabridged table of measones being the most suitable for the purpose. The urements, from which the above summary is tabulatinjury most frequently occurs in children of the ed, discloses the further fact that by selecting the strumous type, with large ends to the bones. Prev- corpuseles it would be possible for a dishonest obiously to the last two years, no notes were taken of server to make the average much larger or smaller cases seen. Since doing so, twenty-four examples than that above given, without the possibility of detection; a fact, the bearing of which upon the value I think that a slipped tendon of the wrist, to which of expert testimony upon this subject is so obvious

It will be seen that he has not attempted to draw has previously occurred, concerning injuries to the any inference as to the cause of the larger average fore-arm in children of this age.—British Medical size of the corpuscles first measured. Whether it was or not due to the drugs exhibited during the beginning of this work, is an interesting subject of in-MEASUREMENT OF RED BLOOD-CORPUSCIES.—In quiry, which must be reserved for future examination.

EXTENSIVE ACNE VULGARIS, WITH INFLAMMAof red corpuscles with a view to obtaining an aver Tory Papilloma. - Dr. C. Schadeck, of Kew, reports the case of a man, 23 years old, who was the An examination of the figures shows that the dif- subject of these affections. His internal organs were ference between the greatest and smallest averages sound; his skin and visible mucous membranes pale. of 25 corpuscles is .000028 or 1-35714 inch, a mag- On the buttocks was a large collection of acne vulnitude that may be easily measured by any person garis, in different stages of development. The head, having the requisite skill and apparatus. The differ- face, neck, palm of the hand, soles of the feet, inence between the highest and lowest averages of 50 ternal surface of the thighs, and the axilla were free corpuscles is .000015 or 1-66666 inch, which ap- of acne. On the chest and back, besides the comeproaches more nearly the limit of micrometric meas- dones (without inflammatory appearances) were inurement, though probably not beyond it. The dif-flammatory nodules, nodes and pustules (of acne) ference between the highest and lowest averages of from which exuded on pressure the contents of the fat 75 corpuscles is .000012 or 1-83333 inch, which ap-cutaneous glands mixed with pus and some dark proximates the limit of micrometric measurement, venous blood. It was evident that some of the larger The difference between the highest and lowest averages of 100 corpuscles is .000009 or 1-111111 inch, ones, and contained a gritty material (atheroma).

Besides these nodes and pustules there were found secondary to anterior synechia, on the ground that on the chest and back a large number of round, the loss of the eye is due to continuous traction on white scars. On the skin of the lower portion of the nerves entangled in the scar. In glaucoma, he the abdomen and the groins, as well as on the skin combines it with simultaneous sclerotomy. Brailey of the nates and the sides of the body, there were has tested the efficiency of the operation to relieve scattered large, oval, irregularly formed infiltrates of ciliary neuralgia and to lower tension in six cases, a dark color, formed by the confluence of several in one case he stretched the supra-orbital nerve also inflamed acne nodes. On the upper surface of the to compare the effect. He reports the following infiltrates were numerous punctiform openings, from cases: which pus, blood and gland contents exuded on pressure. Small infiltrates were numerous on the internal following a cataract extraction five years ago. Tensurface of the forearm, and the thigh and leg. The sion slightly in excess a month after extraction, but infiltrated spots on the lower extremities had the fol- for five weeks had been much heightened, and vision lowing peculiarities: they had the appearance of failed rapidly. Supra-trochlear nerve stretched to sharply outlined, flat, oval nodes and plagues about rupture, and four mm. excised. In three days ten the size of a silver five cent piece to that of a cop- sion had fallen from +2 to +12, and in six days was per cent, the upper surface being only slightly raised normal. Vision slightly improved. Pain wholly above the level of the skin, but they were deep- relieved. seated, and covered with small brown specks; after 2. A man, aged 67, glaucoma absolutum of right eye, removal there was a red, uneven, cribriform surface. Tension +3; perception of light. Sight lost gradu-Most of the pin-like openings were filled with a thick ally twenty years before; considerable pain. Suprapurulent material, removable by pressure. In a few trochlear nerve stretched. Considerable suppuration places the surface of the infiltrates was formed of of wound. Tension gradually fell, and ten days later, new, soft cicatricial tissue. Isolated infiltrates were was not more than +1. Pain entirely relieved, and surrounded by a dark-red region, and showed on the had not recurred after some months. upper surface wart-like growths and cicatricial 3. Woman, aged 41. Double iridectomy for glanchanges, and were probably due to a simple closure coma three years ago. Still some tension in each of the glands by an inflammatory process of the skin eye, with continuous pain over left brow. Eserine of the surrounding region, followed by hyperplasia of gave no relief. Both supra-trochlear nerves stretched. the stratum Malpighi, giving rise to wart-like growths. Wounds healed rapidly. Tension fell to full in right (perifolliculitis, papilloma). The apices of the papereye, and normal in left. Pain entirely ceased for a illomatous growths were grown together, and between month; then both pain and tension recurred, but them were a few small abscesses.

The treatment consisted of potash baths, with remained the same,  $\frac{6}{60}$  right;  $\frac{1}{7}$ 4 left, mercurial plasters to the larger infiltrates, some of 4. Woman, aged 63. Left, absolute glaucoma, these being incised and pressed. Under this treattension  $\pm 3$ , vision nil; some pain; right, tension ment most of the papillomatous infiltrates were ab-  $\pm 3$ , vision  $\frac{1}{12}$ , inflammatory symptoms slight. Stretchsorbed within a month and a half, and the nodes and ing of both supra-trochlear and supra-orbital nerves. plaques were atrophied. In five months the patient No relief of pain, though tension fell to  $\pm i$ . Subleft the hospital cured.—St. Petersb. medicinische sequent sclerotomy, and then iridectomy right, with Wochenschrift, No. 50, 1885.

STRETCHING THE SUPRA-TROCHLEAR NERVE IN and was finally enucleated. GLATCONN.—Dr. Brailey read a paper on this 5. Man, aged 75, absolute glaucoma of left eye, subject at the late annual meeting of the British with severe pain. Stretching of supra-trochlear retion, in 1882, for ciliary neuralgia, and he thought as bad as before. Eye enucleated. that it might give good results in certain forms of glaucoma, and in sympathetic ophthalmia. Abadie both eyes. As a last resort, the nerve was stretched stretched it in a case of glancoma, in which the eye on each side. Pain was diminished for a time, but continued hard and painful after sclerotomy and inflammatory attacks soon recurred. iridectomy. He stretched the nerve until it ruptured, Brailey states that he intends, in future, to restrict and then removed a piece of it one cm. long. Ten- the operation to diseases in which, on the strength of sion sank in three days to normal, vision slowly and these cases, there is good ground to expect benefit; slightly improved, and the pain was relieved. He in the neuralgia of glaucoma absolutum, and in inhas since then reported cases where stretching was tractable cases of glaucoma generally. He is satisadvantageously combined with iridectomy or scler-fied that stretching the supra orbital nerves has no otomy, even in such an unpromising disease as con-beneficial effect on the tension, and only doubtful, genital hydrophthalmos. But he expressly states that at best, on the neuralgia. Stretching of the suprahe does not think nerve-stretching can yet supplant trochlear, he believes, does have some influence on iridectomy or sclerotomy; it should be reserved for the tension, but it is not worth counting on, in this intractable cases which have resisted all other meast respect, as a remedy for glaucoma, though it is of ures. He suggests its probable utility in congenital use as an adjunct. - British Medical Journal, Oct. hydrophthalmos, and also in glaucoma in children 10, 1885.

1. A man, aged 49, glaucoma; the result of iritis

neither symptom quite so acute as before. Vision

result that vision remained 6, although tension continued  $\pm 1$ . The other everemained as hard as ever,

Medical Association. Badal introduced the opera-lieved pain much, but in five days it returned almost

6. Woman, aged 55, severe choroido-cyclitis of

milk, eight pints daily.

one-third.

As he did not seem to improve under this treatment, forceps. a grain of fuchsine (in the form of pill made up with compound tragacanth powder and extract of gentian) was prescribed to be taken three times a day, and he was allowed ordinary diet.

On July 20, the dose of the drug was increased to stetrics, January, 1886. two grains three times a day, the amount of albumen when the fuchsine was commenced being one-third,

which was now reduced to three grains in the day.

His urine was examined every week or ten days. and on the last three occasions there was a total absence of albumen, and nothing microscopically, the fuchsine being reduced to one grain in the day.

Journal, Dec. 5, 1885.

the following interesting case:

occurring at seven months of pregnancy, to the N. hospital, and the physicians in charge, Dr. Blackwell of the thyro hyoid, lying on the inner side of the

ALBUMINURIA TREATED BY FUCUSINE. - Mr. A. T. and Cushier, had used all the most usual and ap-Barnard reports the following case, which came under proved means of relaxing the rigidity of the os, but the care of Mr. W. MITCHELL ROOCROFT. Wm. R., without the slightest effect. Even chloroform had aged 40, was admitted to the Royal Albert Edward failed, and the increasing exhaustion of the patient Infirmary, Wigan, on May 8, 1885. There was ex- rendered this method hazardous to be persisted in. treme anasarca of the head, face, and legs and ascites; It seemed to me that the tetanized condition of the the tongue was coated, the breath very foul, and the os, which would barely admit the tip of a finger, and skin hot and dry. On inquiry, he said he had been resisted manual dilatation to an extraordinary degree, working for some time in water in the pit. He com- was precisely due to the exhaustion of the nerve plained of pain in the lumbar region. The urine, on force destined to the uterine fibre. The tetanus would examination, was of a pale straw color, and acid re- then be analogous to the intestinal cramps of lead action, of specific gravity 1015; there was a slight colic; to those induced in both the rectum and the deposit, and it became almost solid with albumen on genital canal by compression of the aorta (in rabboiling; under the microscope, granular casts were bits), or, on an even more general scale, to the unifound. The quantity of urine passed was three to versal muscular contractions of rigor mortis. If this four ounces on the day after admission. The follow- were true-and surely the clinical history of cases of ing treatment was adopted: a vapor-bath was to be rigid os uteri tends to support the hypothesis-local taken three times a week, and a drachm of compound stimulation of the exhausted nerve fibres was indijalap powder every second morning. He was ordered: cated as the remedy. A small electrode was applied R Tinct, digitalis mx; tinct, ferri perchloridi mx; aq. to the os, and connected with a faradic battery, the chloroformi ad 5j; to be taken three times a day, other electrode being held in the patient's hand. It His diet was ordered to consist solely of skimmed was considered desirable to avoid passing the current through the body of the uterus, lest new con-This treatment was continued until July 16, with tractions should be excited and struggle in vain the exception that the jalap powder was discontinued against an impassable resistance. The application on June 15. During this period, the ascites and was continued for fifteen minutes. Immediately afanasarca diminished, the amount of urine passed terwards, and for the first time, Dr. Cushier succeeddaily varied between sixty and seventy ounces, the ed in inserting a finger into the cervical canal, and amount of albumen also varied between one half and after some further effort, in gradually effecting manual dilatation and delivering the patient with the

Stimulus to the nerve fibres thus seemed to have succeeded in inhibiting the spasm into which the muscular fibre had been thrown, as is habitual when left to its own irritability.-American Journal of Ob-

THE CRICO-HYOLD MUSCIE. - MR. WALSHAM, in the urine containing crystals of uric acid and waxy an article on Anatomical Variations, published in the casts. The urine (owing to the drug) now assumed St. Bartholomew Hospital Reports, vol. xvii, described a pinky-red color, and the faces were also colored. a crico-hyoid muscle, consisting of a slip composed In ten days, the albumen was reduced to one-sixth, of two muscular bellies, intervening between three and on August 13, there was a mere trace, which tendons. It arose from the lower border of the cricontinued until he was discharged (at his own wish), coid cartilage, just external to, and to the right of, and made an out-patient, still continuing the fachsine. the median line, and was inserted into the lower border of the hyoid bone, near the median line. The muscle was tendinous at its origin, but at the upper border of the cricoid cartilage it became muscular, and at the lower border of the thyroid it again became tendinous. A second muscular portion, of about On September 30, the patient was discharged, and three-eighths of an inch in length, existed in the tenintended to recommence work. British Medical don, opposite the middle of the thyro-hyoid mem-Dr. Wenzel Gruber, of St. Petersburg, recognizes the fact that Mr. Walsham was really the FARADIC ELECTRICITY IN RIGIDITY OF OS ULFRE discoverer of the crico-hyoid muscle. He found this DERING LABOR. - DR. MARY PULNAM JACOBI reports muscle in a male subject, dissected in October, 1884. After a minute description of the specimen under his A primipara was brought during a premature labor, observation, he admits, not only that it agreed in origin, course, and insertion, with that described by Y. Infirmary in a state of considerable exhaustion Mr. Walsham, but that he and the latter anatomist resulting from the prolonged labor pains. The ex- only have discovered a true and distinct muscle propternal os was tetanically rigid. I did not see the pa- erly called by the above name. Zagorsky's cricotient until after she had been for some time in the hyoid, described in 1809, was simply a separate slip main part of that muscle. A true crico-hyoid cannot itching to disappear rapidly, and has beneficial effect be said to exist unless the thyro-hyoid be well devel-upon the eruption. It, nevertheless, does not possess oped and undivided, and the crico-thyroid also free a curative power in this disease greater than that from any anomaly.—Brit. Med. Journ., Nov. 28, 1885.

COCAINE IN DISEASES OF THE NOSE, LARYNX AND PHARYNX.-PROF. SCHNITZLER gives an account of one hundred cases in which he has used cocaine in diseases of the nose, larynx, and pharynx. In operations upon the tonsils, and in hyperæsthesia of the pharynx the results from its employment are satisfactory; but he does not think it especially useful in acute pharyngitis. Though it gives good results in operations upon the larynx, he does not regard it as advantageous in laryngoscopic and rhinoscopic examinations. The results of its use in irritative cough, laryngeal catarrh, acute and chronic, and in laryngeal tuberculosis were very favorable. Glycerine is regarded by him as a useful adjuvant to formulæ containing cocaine. The following is a good mixture for general use:

B. Hydrochlorate of cocaine..... 2-5 parts. Glycerine 20 "Glycerine 20 " 

When it is desirable that the anæsthetic effect be continued for some time, Schnitzler recommends the following:

R. Hydrochlorate of cocaine...... 2-5 parts. Morphine..... 2 Glycerine ..... Water of each..... 50 Μ.

The following is recommended for insufflation:

Hydrochlorate of cocaine..... 2-5 parts. M.

or

B. Hydrochlorate of cocaine..... 2-5 parts. Subnitrate of bismuth..... White sugar of each..... 50

He uses a solution of 1 to 500 for nasal injections and for inhalations.—Centrabllatt für Chirurgie, No. 51, 1885.

THE APPLICATION OF NAPHTHOL TO SOME FORMS OF CUTANEOUS DISEASE.—P. SOMBRET (Thèse de Paris) gives the following resume of the advantages this accounts for the increase of the fever. It does possessed by naphthol in the treatment of some forms not reappear in the urine when given internally, but of skin disease:

- 1. The preparations are odorless, and stain neither Remèdes, Jan. 1, 1886. the skin nor clothing.
- 2. In the use of naphthol, with the precautions of intoxication (albuminuria, coloration of the urine) nor active inflammation of the skin.
- 3. In scabies, naphthol is an excellent parasiticide, and exercises a very beneficial effect upon the eruption due to the disease.
- use is free from danger and inconvenience.
- observed.
  - 6. In prurigo (of Hebra) naphthol causes the Belg., Oct. 18, 1885.

possessed by other remedies.-Revue des Sciences Medicales, July, 1885.

HIPPURATE OF SODA IN URIC ACID DIATHESIS. -Garrod has already shown the effect produced by hippurate of soda on the decomposition of uric acid, and Dr. Bon highly recommends it in affections characterized by an excess of uric acid. The following are convenient formulæ:

R.	Hippurate of soda	grm. 5.
	Carbonate of listeria	1.50.
	Glycerine	15.
	Distilled canella water	250.
	M,	_
Do	a 15 cmammac four times a day	

-15 grammes four times a day.

B. Hippurate of soda..... grm. 6. Chlorate of potash..... 1.50-Simple syrup..... 20. Peppermint water..... 200.

Dose.-15 grammes four or six times a day. -Nouveaux Remèdes, Jan. 1, 1886.

RESORCINE IN EPITHELIOMA.—Dr. RUBINO AN-TONIO reports a case in which he successfully applied resorcine to an epitheliomatous tumor, about the size of a pea, on the side of the nose of an elderly man. The tumor was apparently attached to the bone, and surrounded by an area of reddened and infiltrated skin. An ointment containing 15 parts of resorcine to 20 of vaseline was applied twice daily after the tumor was washed with permanganate of potash solution. The discharge diminished, and the tumor grew smaller, until at the end of five months nothing was left except a small cicatrix.—Giornale Internaz. delle Scien. Med., Oct., 1885.

IODOFORM IN CONSUMPTION.—Dr. VESTE, after having used iodoform in phthisis for some time in the form of inhalations, says that he has obtained very good results from it; either on the local morbid processes or on the general condition of the patients. Given internally it produces no good effect, and it increases the fever. In apyretic and non-tuberculous cases it has caused increased destruction of nitrogenized tissues, and Veste thinks, consequently, that is thus found when used externally.—Les Nouveaux

Solvents of Biniodide of Mercury. - In a advised by Kaposi, there are observed neither forms recent communication made to the Académie de Médicine of Brussels, M. Mehu stated that castor oil is one of the most powerful solvents of the biniodide of mercury, in the proportion of grm. 1 to 50. The addition of iodide of potassium adds to this solubility. Lard only takes up grm.  $4\frac{1}{2}$  to 1000, and 4. In pediculosis the remedy is efficacious, and its vaseline grm. 1 to 4000. Carbolic acid warmed to 212° F. dissolves about grm. 20 to 1000, but half of 5. In psoriasis, no satisfactory effect has been this is precipitated on cooling. At ordinary temperature benzine dissolves grm. 4 to 1000.-Presse Med.

THE

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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## EXPLORATIVE LAPAROTOMY.

opinion regarding the nature of an obscure abdominal tumor, he said "Cut the patient open and find out." not be touched.

in which a diagnosis cannot be made without opening to say that the adhesions limiting and walling in the

the abdomen and exposing the parts to the direct touch, or even perhaps to the sight, of the surgeon, but in which further interference is thereby shown to be impracticable or uncalled for. 2. Cases in which a provisional diagnosis only can be made, unaided by abdominal incision, and in which but slight additional risk is incurred by an immediate and radically curative procedure, based upon the knowledge thus gained. 3. Cases in which a diagnosis has been made, but in which doubt exists as to the practicability of performing a radical operation; and eases in which the choice of the particular operation best adapted to the individual case must be decided upon after incision and exploration. 4. Cases in which the patient's life is in imminent peril, and in which it becomes imperatively necessary to at once locate the lesion threatening life, and to be prepared to act promptly upon the knowledge gained by opening the abdominal cavity.

The eases to be included under the first class are, The subject of laparotomy for diagnosis was very as said, those in which an operation would be imtersely put by Mr. Lawson Tait during his recent practicable or is uncalled for, and if any benefit is visit to this country, when, on being asked for an derived it is not from any design on the part of the operator. It is well known that there are many cases of severe pelvic or abdominal pain in which a diag-And it is interesting to know that that patient was cut nosis is impossible without an operation, though the open, and saved by hysterectomy from almost certain symptoms give a strong suspicion of chronic ovaritis death. Surgeons are beginning to understand that or salpingitis. In some cases nothing can be found laparotomy is not such a dreadful operation after all. by an operation to account for the pain and other That it is a capital operation must be admitted, but symptoms, and yet they disappear promptly after the so are many others that no surgeon hesitates to per- operation. In this first class also may be included form. The idea is rapidly becoming a thing of the cases of recurring ascites in which peritoneal disease past that the peritoneum is a structure which must is suspected, and cases of traumatic peritonitis, "in which incision is made and drainage supplements In his Address as Chairman of the Surgical Com- the otherwise purely explorative operation. In cases mittee of the Medical Society of the County of under the second class a partial diagnosis has been Kings, delivered in October, 1885, Dr. George R. made; sufficient with the symptoms to show that the FOWLER made some most suggestive remarks on the patient's life is in danger and that something must be subject of "Explorative Laparotomy." The Address done. Here, as in cases coming under other classes, was worthy a bold, skilful operator. In speaking of there is sufficient obscurity to make the surgeon wish the work done by Mr. Tait and Mr. Treves, he says: -as thousands have wished-that he had his hand "But there is yet room for missionary work before inside. "As illustrative of this class of cases, chronic men, and good men too, can be induced to come out ovaritis, or salpingitis, with or without hydro- or pyoof their shell of conservatism, so-called, and with a salpinx, may be cited. In some of these cases, albold front help to break down the prejudices and though attended with considerable difficulty in making misgivings based upon an ill-founded fear of the peri- a positive diagnosis, yet the suspicion amounts almost toneum and its behavior under the knife." It is not to a certainty. Here an opening sufficiently large to a week since a New York surgeon expressed himself admit the introduction of the index finger will clear as having as little fear of opening the peritoneum up the doubt." So also may perforations, diseased to-day as he had of operating upon a cervix uteri five conditions of the vermiform appendix, and other years ago. Dr. Fowler divides the cases calling for affections be diagnosticated. "It is no argument explorative laparotomy into four classes: 1. Cases against explorative laparotomy in this class of cases saving many lives.

"Explorative laparotomy will also prove useful in operation. cases in which chronic intestinal obstruction may occur, and the question may arise regarding the propriety of attempting to relieve the obstruction after determining its location and nature. Resections of a portion of the gut or of the pyloric extremity of the stomach in stenosis at that point are instances in illustration. Cases of uterine fibroma of small or medium size, which, because of exhausting hæmorrhage, demand interference, will require a preliminary explorative operation before a choice can be made between simple removal of the appendages or a hysterectomy." Of course in the greater number of cases removal of the appendages is sufficient and perfectly practicable, but now and then a case is met with in which the only choice is between the more formidable operation and closure of the incision without completing the operation.

The fourth and last class includes those cases, as we have seen, in which the patient's life is in imminent peril, and something must be done at once both to locate the lesion and to apply means for its relief. And strange to say, this is the class in which the socalled conservatism is most frequently shown. Illustrative cases of this class are those of gun-shot wounds of the intestines, rupture of an extra-uterine prognancy, perforation of intestine during typhoid fever, rupture of an abscess into the peritoneal cavity, or

seat of perforation and extravasation of feecal matter the abdominal cavity, as reported by Plenio, in a would thereby be prevented from forming." These recent number of the Centralblatt für Gynakologie, adhesions occur but rarely; and even when they are in which the patient's life was saved. The successes formed the patient's life is endangered by the prob- of Bull and Hamilton with gunshot wounds of the able rupture of the resulting abscess; and "when intestines are alone sufficient to warrant an explorathey do not form at once, oftentimes perforation, tive laparotomy when such cases occur, and in regard diffuse peritonitis, and, in consequence, certain death, to operating for ruptured extra-uterine pregnancy we is the rule." In this class of cases, predicts Dr. need only refer to the successes of Mr. Tait. Almost Fowler, explorative laparotomy will be the means of two years ago Mikulicz reported a successful case of laparotomy and suture of the intestine for a ruptured In the third division Dr. Fowler places cases in typhoid ulcer. He has reported an unsuccessful case which a diagnosis has been made, but some doubt of operation for rupture of the stomach, but the pastill exists as to the practicability of performing a tient was collapsed before the operation was begun; radical operation. In this sense he thinks that most and an unsuccessful case of operation for perforation cases of ovariotomy and hysterectomy may perhaps of the vermiform appendix, but it was not undertaken be looked upon as being, in some degree, explorative until twenty-three hours after the accident. Lloyd operations; as easily seen by the number of cases in reported a case, unsuccessful, for gunshot wound which an operation has been commenced, but aban- almost three years ago, but the operation was not doned on account of the high improbability of suc- performed until the fourth day. So far as we are cess. Hence the wisdom of always making, as our aware the successful cases have been those in which author advises, the incision as if for simple explora- the operation was performed early. Nevertheless it tive purposes; when, if the operation be found im- seems that, when the surgeon sees the patient at a practicable, the wound to be healed is not so large. late date for the first time, he should still perform the

> In connection with the latter part of the preceding paragraph it may be asked whether commencing or existing peritonitis contraindicates an operation. Fortunately, the successes and experiences of Schramm, Boully, Israel, Litten, Keith, Wells, and others have already given a negative answer to this question. Peritonitis occurs but rarely after operations compared with its frequency after accidents, and it has several times been shown that it rapidly subsides, when due to traumatism, after an operation has been performed, the abdomen washed out and drainage established. As regards the operation itself, Mikulicz says, in Sammlung klinischer Vorträge, No 262, that it is a secondary question to that of diagnosis; that is to say, he does not now hesitate to perform laparotomy in cases in which the symptoms point to an early death as he did a few years ago. Consequently, as these cases may imperatively demand an operation, the easiest and surest way to get out of the difficulty is to make an explorative laparotomy. This establishes the diagnosis, and if an operation be demanded the first steps have already been taken. The risk to the patient is very much less when the operation is performed before a local peritonitis has become general.

The importance of laparotomy for diagnosis is well rupture of the urinary or gall bladder; or of rupture illustrated by a case reported by Dr. W. Gill. Wylle, of the pregnant uterus, with escape of the feetus into at a recent meeting of the Obstetrical Society of New

interine pregnancy.

### THE TREATMENT OF CHRONIC HEART-DISEASE BY MEANS OF BATHS AND GYMNASTIC EXERCISES.

this subject, (The JOURNAL, January 16, ) DR. SCHOTT veins into the arterioles. advises the baths for patients with disease of the Now come Schott's system of giving gymnastic exbath containing carbonic acid gas.

with a layer of gas bubbles and the skin assumes an is said to be astonishing. erythematous blush. The cutaneous irritation thus Schott does not claim that the valvular lesions

York. The patient, who had a tumor which had been the cardiac disease, is relieved; the arterial system is diagnosticated as an extra-uterine pregnancy, had an better filled and the weak heart by reason of lessened attack of syncope, followed by profuse diarrhoa, and internal pressure is enabled to contract upon its conthe tumor subsided. Dr. Wylie made an incision and tents more efficiently. The dilatation of its cavities found a huge pyo-salpinx, which was removed. The due to impeded circulation is diminished, while, in patient recovered. Some time before this electricity consequence of the ampler flushing of the coronnary had been applied for ten days for the supposed extra- arteries with blood, the heart-muscle becomes better nourished. Schott appears to attribute all this improvement to stronger ventricular contractions, as the primary result of the bath. It seems to us, on the contrary, that the increased vigor of the systole is secondary to the derivative action of the bath, by As stated in our preceding editorial article upon which the blood is called from the capillaries and

heart in the stage of ruptured compensation to be ercise and its effect. This is very simple but methoddiluted and but gradually brought up to the strength ical, and consists of movements designed to call into of the natural waters of Bad Nauheim. The strong- play the chief muscles of the entire body. Space est of these, he says, contain from two to three per forbids a detailed description of these. It suffices to cent. of the chloride of sodium, and from a half to say, the arms, trunk and legs are successively exone per cent. of the chlorate of lime, and three tended, flexed and rotated against slight resistance. grammes of CO, to the litre of water. Only as the This resistance is preferably obtained through another vigor of the heart increases, is the individual given a person, who exerts gentle pressure with the hand upon the extremity in a direction opposite to that in which As in the case of the salts, the proportion of the it is to be moved. The exercise must never be carried gas is increased by degrees, until the bather is able to to the point of noticeably accelerating the respirendure the saturated and powerfully charged water ation. The patient is directed to engage in conver of the natural spring. In order to artificially impreg-sation while exercising, and so soon as his utterance nate the bath with carbonic acid gas, Schott uses becomes embarrassed by breathlessness, or the atequal parts of bicarbonate of soda and a 42 per tendant observes that his nostrils begin to manifest cent, solution of hydrochloric acid. He begins with labored respiration, the movement is stopped until a kilo of each to 250 litres of water. The soda is at tranquil breathing is regained. Schott claims that, if first dissolved, after which the acid is added by allow-systematically and judiciously carried out in regular ing it to flow by its own weight out of the mouth of cycles of movements from the upper to the lower exa bottle, held beneath the surface close to the bottom tremities, this gymnastic exercise proves not only not of the tub, and cautiously moved about. The im-monotonous, but also extremely beneficial. Not only pregnated water must then be kept as motionless as do the muscles generally become developed, but that possible, in order that it may not part with its gas, great involuntary muscle, the heart gains in strength. However great the care observed in charging the Moreover, the same effect upon sluggish venous cirbath, a layer of gas will form above the water; this culation is exerted as by the employment of balneomust be gently waved aside. If now a person be therapeutics. Either treatment alone, is considered immersed in such a bath, his body becomes covered by Schott as curative, but when combined their effect

produced is very beneficial. Such a bath stimulates themselves can be removed, any more than the the muscular and nervous systems, and excites circus structurally altered cardiac muscle can be restored to lation and respiration of a healthy person, while upon its original form-elements. He declares only that by a diseased organism. Schott believes the effect to be this method of therapeutics hypertrophy may once more be made to gain the upper hand over dilatation. Beneficial as in an artificial bath, the natural water, This certainly looks reasonable, and the management which at the spring gushes over the body of the pa- of this class of cases by other than chiefly medicinal tient, exerts a far greater and more beneficial stimus agents is rapidly taking rank among the most approved lation. The venous hyperæmia, consequent upon and advanced therapeutics. As Schott says, the time is fast approaching when the practitioner who following experiments: The psychomotor zone of does not recognize and employ baths and exercise in one side is laid bare, the dog not being narcotized; the treatment of chronic heart disease, will be con- the psychomotor centre of one extremity is then sidered as either ignorant or culpably remiss. It may irritated by a faradic current from a Dubois-Reymond be considered troublesome, but the practice of mediapparatus. The animal is then chloroformed, and cine is full of measures, the employment of which is the same point in the psychomotor region is again tedious and troublesome both to physician and patient. irritated. This must be done very carefully in order

of appropriate hot springs that they investigate and applied only two or three times and very lightly. In adopt the suggestions of Dr. Schott in connection the first experiment irritation of the psychomotor with their resorts. Why should we Americans allow centre of the anterior extremity caused feeble flexion our Teutonic confrères to monopolize this line of of the left leg with the bobbins at a distance of 200 treatment, or, even employ it with greater system and mm.; at 150 mm. the flexion was very strong. The thoroughness than we? Let us show them that we animal was then chloroformed, and five minutes too are wide-awake.

### THE PHYSIOLOGY OF DISSEMINATED SCLEROSIS.

years ago the results of some experiments on dogs ably well marked trembling. Thirty-five minutes and cats, which show that the trembling observed in after anæsthetization, irritation of the same centre disseminated selérose en plaques appears, as regards caused, at 150 mm., very teeble flexion with very its origin, to be a consequence of a lesion of a cer- marked trembling in the left leg. Other experiments tain extent of the antero-lateral roots of the spinal were made in the same manner, which showed that cord, which transmit the impressions which determine under the influence of chloroform the excitability of voluntary movements. He now reports, in Le Prog- the cortex of the cerebral hemispheres gradually rès Médicale, of December 26, the results of experi-diminishes, the movements become enfeebled at the ments made to determine the source of the tremblings same time, and the trembling then appears. in cases in which there is no lesion of the cord, setting out with the supposition that they are the result laid bare on the right side, the animal not narcotized. of some alteration of certain portions of the brain, The centre of the anterior extremity was touched, of the grey matter of the cerebral hemispheres, for with the bobbins 250 mm. apart, which immediately example.

the antero-lateral roots of the lumbar plexus, in order became clonic. After complete chloroformization, to obtain intentional trembling, excitation of the with a separation of 50 mm., irritation of the same psychomotor centres with a faradic current, after centre caused irregular and interrupted contractions anæsthetization of the animal, caused marked trem- in the left extremity, without an epileptic attack. bling not only in the posterior extremity, the nerves This experiment well illustrates the degree to which of which issued from the cord at the level of the chloroformization enfeebles the excitability of the grey parts irritated, but also in the anterior extremity, the matter of the hemispheres, since the bobbins had to medullary centre of which was in a normal state, be brought 200 mm, nearer together than before the Having noticed this phenomenon, he thought that animal was chloroformed. In these experiments with the trembling in the anterior extremity under these faradic currents only the grey matter was irritated; circumstances was perhaps the result of chloroform- and it is seen that the intensity of the current had to ization, or due to the enfeeblement of the physiological be increased in order to obtain certain movements functions of the psychomotor zone, caused by the when the animal was an esthetized. It must therefore chloroform. This hypothesis was confirmed by the be concluded that the excitability of the psychomotor fact that he was obliged to apply a faradic current of zone was diminished by the influence of the anæsthemuch greater intensity than that usually necessary tic. On the other hand very pronounced trembling apto cause certain movements of the limbs in a non-peared only after the animal was chloroformed, which

We cordially recommend to the doctors in charge to avoid injuring the centre, the electrodes being afterwards there was no movement with a separation of 200 mm., and only very feeble flexion with 150 mm. separation. After twenty-five minutes irritation of the centre of the same extremity gave rise, with Dr. Jean Gasternatzvy reported about four 150 mm. separation, to feeble flexion with toler-

In another experiment the psychomotor zone was caused an epileptic attack with dilatation of the In some of his experiments in which he pricked pupils, and spasms which were at first tonic, but then seems to show positively that it was due to the enfee-The hypothesis was proved to be correct by the blement of the functions of the psychomotor centres.

The practical deductions from these experiments are of great importance in showing that these tremblings have their seat of origin in the grey matter of the cerebral hemispheres. As an example, Gasternatzvy cites the paralytic trembling seen in persons affected with progressive paralysis of the insane. The essential lesion in this disease consists in part of peri-encephalitis; and it is well-known that this The Chairman, F. J. Knight, M.D., in the Chair. pathological process causes atrophy of the cortex. with disappearance of the nerve elements and proliferation of the connective tissue, pigmentation, etc., as shown by Meynert, Huguenin, Magnan, and others, and it is probable that these products cause irritation of the nerve cells of the cortex before they reader were of unusual clinical importance from the have entirely lost their functions. "On the other hand, the paralytic trembling, one of the more important symptoms of this disease, furnishes us certain signs which show its dependence upon the grey matter of the cortex: 1. This trembling is general, and its existence in all the voluntary muscles of the body shows that the lesion which causes it is found in a part of the nervous system with which all these muscles are in communication; and the grey matter of the cerebral hemispheres in this region. 2. This paralytic trembling always accompanies other symptoms which, as is known, undoubtedly depend on certain lesions of the grey matter of the brain; for example, the symptoms of progressive dementia, analgesia, epileptiform attacks, vaso-motor phenomena. etc. 3. At the commencement of the disease the trembling is scarcely sensible during slightly extensive delicate movements, which are ordinarily the most complex and most coordinated; as the disease gradually advances trembling occurs. Finally, in the last period of the disease the trembling causes complete paralysis of all psychomotor or voluntary movements. Consequently a relation exists between the paralytic trembling and the other symptoms of the disease on the one hand, and on the other with rhea; whenever treatment directed to the ear stopped the progressive development of the pathological process of the cerebral cortex, which constitutes the essential lesion of the disease."

DR. DMITRY EGOROVITCH MIN, one of the most five times in a year. distinguished members of the Russian profession, recently died in his 68th year. He was the founder of the Museum of Forensic Medicine in Moscow, was difficulty of making a diagnosis from the rational city, and educated the first experts for the reform Case I had pneumonia of the left dorsal base. Case courts. A good poet and an excellent linguist, he 2 had acute inflammation of the middle ear. When probably did as much for general literature as for his seen by Dr. Minot, the child with pneumonia had profession, having translated in verse King John, Don normal respiration, no dyspnoa, pale skin, and was

## SOCIETY PROCEEDINGS.

### SUFFOLK DISTRICT MEDICAL SOCIETY.

SECTION FOR CLINICAL MEDICINE, PATHOLOGY AND HYGIENE.

Regular Meeting, December 9, 1885.

ALBERT N. BLODGETT, M.D., SECRETARY.

Dr. G. M. GARLAND, of Boston, read a paper on SOME CASES OF REFLEX NEUROSIS.

(See page 62, Journal of January 16.) Dr. Rotch said that the cases described by the fact that they occurred in adults, in whom symptoms of reflex origin are rare in comparison with infants and children, where this class of cases reaches its highest development, owing to the hypersensitive condition of the child's nervous system. These reflex phenomena are so pronounced in early life that we recognize in them the most serious obstacle to our making an accurate diagnosis, knowing well that any one of them may at times represent many and entirely opposite forms of disease, although the lack of speech of the infant, and the incorrect answer of the older child appear, at first, to offer the greatest barrier to a proper appreciation of the case. As general examples of reflex symptoms, we have the different forms of eclampsia, the vomiting of cerebral disease, and the earache arising from irritation in the mouth during the dental periods. He mentioned some special cases occurring in his own practice which seemed to illustrate the class of cases referred to in Dr. Garland's paper.

Case 1.- A child two years old was seized with dyspnæa and cough, which continued until a purulent discharge from the ear drew attention to that organ, and inflammation of the Eustachian tube was followed by immediate relief to the symptoms. There had been no other signs of aural disease, and a physical examination had disclosed nothing abnormal in the heart or lungs.

Case 2.- A child four years old had a chronic otorthe discharge, the child began to have what appeared to be a laryngeal cough, though nothing abnormal could be found anywhere on examination of the airpassages; the cough would continue until the discharge from the ear returned, and then would cease, and this reversal of symptoms would occur four or

Two cases seen in consultation with Dr. Minot presented the following peculiarities, illustrating the Professor of this branch in the University of that signs, on account of misleading reflex symptoms. Juan and Siege of Corinth, Schiller's Song of the Bell, sleeping quietly, while the child with ear trouble had Tasso's Liberated Jerusalem, and the Divine Comedy. respirations of sixty to seventy, dyspncea, flushed

of potash and chloral.

respiration occurring every three or four minutes, terminal filaments of the vagus. We must, however, allow that these last two cases to arise as a complication.

Finally, there is a class of cases in which I am especially interested, and which, after carefully investigating, and having ample opportunity for following sis. The patient, whether infant or child, is in per-, on this subject. fect health up to the onset of the attack; it then which the patient rapidly regains its strength; this which was in this case evidently of reflex origin. may occur many times during the year, then may

face, and was relieved by inflation of the Eustachian normal, and the bowels not especially constipated; the cases were evidently not induced by the inges-Rosenstein's case of supposed purely reflex neu-tion of improper food; in young infants, the prosrosis of the intestine is worth mentioning. A boy tration was at times so great as to produce serious nine years old began to vomit fæcal matter, and, at doubts as to their recovery. All treatment directed at the same time, to have feecal discharges from the to controlling the vomiting has so far failed, the disrectum. This continued for five weeks, with short ease apparently being self-limited, but the main facintervals, and finally disappeared and did not return, tor in supporting the patient's strength during the Enemata in this case caused both rectal discharges attack is to from time to time, according to the pulse and stercoraceous vomiting, and the treatment which and general aspect, produce sleep, which is accomfinally gave relief was the administration of bromide plished by enemata of bromide of potash and chloral, which at times also seem to render the intervals of Another class of cases supposed to arise from gas- vomiting longer, though they do not materially shorttric irritation is the so-called asthma dyspepticum— en the length of attack. The late Dr. Calvin Ellis in which infants and children are seized with rapid saw a number of these cases, and considered them respiration, dyspnæa and cyanosis, the temperature of reflex origin. Dr. Minot also was of the same remaining normal, and nothing but harsh respir- opinion when he saw a case of this kind with me. I ation being found on examination of the thoracic or- have never heard of a death from this disease, but I gans. These symptoms are promptly relieved by an think that in young infants it might occur from exemetic, and are probably due to irritation of the haustion unless sleep could be produced. I am inclined to attribute the cause clinically to exhaustion I nder the head of a reflex neurosis we may also of the sympathetic from some shock, perhaps menpossibly classify peculiar nervous phenomena which tal, in peculiarly sensitive subjects, and I have ar-I have met with at my children's clinic at the Boston rived at this conclusion by a process of careful elim-Dispensary, where the sole symptom in one case, a ination, no definite point of irritation so far having boy of five years, was hiccough, lasting for many been discovered in other parts of the economy, nor weeks, and in another, a boy of nine years, gasping any proof that there has been irritation of the gastric

The cases occurred at all ages and among all might have been symptomatic of hysteria, or of sim-classes, and I would say once more that the theory ulated disease for the purest type of the disease hys- which I have advanced as the cause of this disease teria is represented in young children, especially in is the result of six years' clinical study of special the first four or five years of life, where the simulat- cases, and that I present it to this Section for Clinied symptoms of the malingerer, marked examples of cal Medicine with much modesty; for so far as I which I have met with, would be extremely unlikely know, no one else has as yet concurred with me in my idea as to the sympathetic ganglia being the nidus of the disease, although all agree, so far as I know, that it is of reflex origin.

Dr. Henry I. Bowditch said that he was much closely and making a precise eliminative differential interested in the subject of the paper, which is a matdiagnosis, from digestive disturbances and organic ter of great importance to the physician. The cases disease of the stomach, I am forced to consider a mentioned by Dr. Rotch do not fall into the same reflex neurosis, connected possibly with the great ad-category as those contained in the paper. Dr. Bowdominal ganglia of the sympathetic; perhaps some ditch never thought of these cases as caused by a reshock to these ganglia causing a temporary paralysis flex neurosis, but as caused by some disturbance of of the controlling sympathetic nerve filaments of the digestion. It is to be regretted that the reader has stomach, resulting in uncontrollable gastric peristal- not given us a résumé of the present state of science

Dr. Bowditch spoke of a woman whom he had suddenly begins to vomit, and this, in some cases, is recently seen, in consultation, who had some menstrual repeated regularly every fifteen minutes by the clock, trouble, accompanied by constant cough. No posifor many hours; or it will vomit, then seem pretty tive causes could be found for the symptoms, but a well for twelve or even twenty-four hours, and then sensitive spot was discovered in the lower right abhave continuous vomiting for eight or ten hours; dominal region. The diagnosis of threatened abscess then the intervals of vomiting grow longer, and the of the broad ligament was made, with tumefaction of attack stops suddenly in about thirty-six hours, after the ovary. This was the cause of a severe cough

Dr. Blodgett mentioned a case in which a man omit for a whole year, but pretty surely returns, and of middle age was the subject of a periodical attack usually lasts until puberty. Absolutely no other of what he called "biliousness," which always comsymptoms could be discovered in these cases, ex-menced by a feeling of dull distress in the region of cepting great thirst and prostration, following the the liver, and was soon followed by a swelling of the loss of fluid from the body, and the mechanical fa- lower jaw; but upon the other side, that is to say, tigue. The temperature was usually found to be on the left. The swelling is very painful, so that the

our present knowledge of reflex phenomena is not at on calling the disease the "Englische Krankheit." all satisfactory. In Germany much interest is at gress of 1884, and the discussion was opened at that rachitis among the whites. time by Professor Leube. Dr. Garland also said that vomiting and the autopsy negative.

DR. H. C. Haven read a paper on

THE ETIOLOGY OF RACHITIS.

(See page 91.)

Dr. Rotch in opening the discussion, stated that of rachitis which he had seen at his clinics at the at Washington, but had not been successful. City Hospital, Boston Dispensary, and Children's Hospital during the last two years, but that he had paper on collated them, and that he was under the impression that the number of cases where it occurred in colored children, was small in comparison to the white. This might, however, be accounted for by the fact that his clinics were not situated in a colored district, while the Dispensary of the Infant Hospital was in a por-This might bring a larger number of colored ence of the foreign body in the air passages. rachities under Dr. Haven's care, but still would not among the colored portion of the population. If this which have nothing to do with that disease. be so, and syphilis is more common among the colored people, hereditary syphilis would also be more common, and although we recognize that there is no direct connection between syphilis and rachitis, yet, for consisting of an ordinary Camman instrument, in impaired nutrition.

patient is obliged to give up all business and keep. Dr. Rotch also said that the number of rachitics the house, and at times to remain in bed. The curi- which were presented at his clinics had increased ous part of the case is that a prompt cathartic will during the last six or seven years, and that he rememcause the swelling of the jaw to disappear in a few bered being struck by the small number of cases of hours, with complete relief to all the symptoms. The rachitis, which he encountered among large numbers jaw gives no further trouble until another attack of of poor children who came under his observation on "biliousness" occurs, when the former symptoms re-appear in all their intensity. his return from Vienna some years ago, where the number at that time was much larger proportionately Dr. Garland in closing the discussion, stated that than in Boston, and yet where the physicians insisted

He also drew attention to the results of autopsies present manifested in the subject of reflex neurosis, observed by himself and others, pointing towards a and cases are reported corresponding closely to those possible rachitic condition of the bones of white childescribed by Dr. Rotch. Dr. Rotch's case of vomit-dren, without any manifestation of this condition ing well illustrates in children the same phenomena during life, the cases being merely diagnosticated and which Professor Leyden has noticed in adults, and treated as debility from impaired nutrition. Thus a Professor Leyden reports a case of this kind where well-marked rosary is at times found on the inner surthe post-mortem examination showed no organic dis-face of the costal cartilages, where no suspicion of ease, and where the symptoms during life consisted such a condition was detected during life, and it may merely of continuous vomiting. This subject also be that there is a greater predisposition among the occupied largely the attention of the German Con- colored race to show the external manifestations of

Dr. Bowditch said that Dr. Haven had made an a year ago, he had met with a case which illustrated important addition to our knowledge upon the racial this condition of gastric neurosis, the symptoms being and climatic relations of rachitis, and expressed the hope that he would carry on on his observations to a still further extent, and by means of the United States consuls and other officers of the government, obtain information as to the condition of the colored populations in Africa.

Dr. Haven replied that he had endeavored to obhe did not remember the exact number of the cases tain the desired information from the National Library

Dr. F. B. HARRINGTON, of Boston, then read a

THE PULMONARY COMPLICATIONS OF TYPHOID FEVER.

See page 86.)

Dr. Vickery remarked that in the stupor which is often associated with typhoid fever, it is easily possible that portions of food may be aspirated into the tion of the city thickly populated by the colored lungs, thereby inducing a pneumonia from the pres-

Dr. Bowditch stated that in typhoid fever there is account for the large per cent, of rachities among the often a lack of the more striking symptoms belongwhole number of colored patients. He agreed with ing to other serious diseases, so that they may often Dr. Haven as to the probable influence of climate as be easily overlooked. All febrile diseases present a cause, but he also offered the following suggestions the same general features as certain cases of typhoid. as perhaps aiding the future study of the subject, and many cases are, no doubt, ranked as typhoid It has been noticed by some of our Dispensary which are in reality something else. It is certain that physicians that venereal disease is especially common many pulmonary affections are ranked as typhoid

Dr. HAVEN showed an

IMPROVED FORM OF STETHOSCOPE,

some years, the most prominent physicians in chil- which the usual flexible tubes are replaced by similar dren's disease in Germany have held that even where tubes about two feet in length, which allows the phyhereditary syphilis has been cured, these same chil-sician to stand at a somewhat greater distance from dren are more apt to have rachitis than those who the patient, and in some cases as, for instance, in have not had syphilis, simply from their syphilis hav- the presence of pediculi, is a source of great comfort. ing left them in a condition favorable to the develop. In the examinations of children it is of much conment of a disease, such as rachitis, represented by venience, as it allows greater adaptation to the movements of a fretful patient. It is quite portable, and gives almost the same concentration of sound as fers eserine to pilocarpine because it is not so spasdoes the ordinary instrument.

Dr Haven also showed an

IMPROVED FORM OF NURSING BOTTLE.

by which the natural conditions are more perfectly enough about glaucoma for the imagination to run imitated than in the forms of bottle generally in use. riot. As to actual facts, however, we are sadly de-It consists of a flattened and elongated glass bottle, ficient in knowledge. There is no disease that the one side of which is removed so that the atmosphere may exert its normal pressure on the contained fluid, and thus imitate the normal conditions of infant feeding. Another desirable feature is that every part of the bottle is accessible to cleaning, and a rubber nipple is used in which several fine holes are made by a cambric needle. The effort of suction by the child is sufficient to excite the salivary glands of the child's mouth, and thus promote the normal digestion of the food.

### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, December 16, 1885. THE PRESIDENT, W. W. JOHNSTON, M.D., in the Chair.

T. E. McArdle, M.D., Secretary.

Dr. J. F. HARTIGAN presented a specimen of RUPTURE OF THE ILEUM,

all the coats of the gut having been ruptured by a produce no more effect on vision. It is difficult to kick on the abdomen. The patient and his assailant form a correct idea of the amount of pressure in a were adult males. No external marks of violence glaucomatous eye. He related an illustrative case, could be found. The intestinal contents were emptied into the abdominal cavity and the man died of vision was lost. An iridectomy was successfully collapse and peritonitis two days after the injury. performed. In six months there was a second at-The wound was necessarily fatal, but he had present- tack in the same eye, with subacute symptoms. Coned the specimen as having some bearing on the sub-stitutional remedies were given and the disease held ject of laparotomy. He has made autopsies on five somewhat in abeyance. It was finally decided that persons who died from kicks on the abdomen. In the only thing which could give relief was enucleathree of them there were no external evidences of tion. The patient at first refused to submit to such violence. One died from the kick of a horse, two an operation. But the cicatrix began to open and were kicked by mules, one by a woman, and the fifth gradually the crystalline lens was pushed forward by a man.

Dr. Richey reported a case of

CHRONIC SIMPLE GLAUCOMA TREATED WITH ESERINE.

coma of the left eye. The vision of the right was early, for the difference of a few hours may mean 20 ; much blurred. She had seen the halo at 18 loss of vision. He related a case in point in which years of age, and thought she did so with the left eye, the patient, a colored woman, had been under the which did not become blind until seven years ago, care of a physician for six weeks without a proper T. 3, pupils half dilated, shallow anterior chambers, diagnosis having been made. Dr. Burnett was comanæsthetic cornea in both, though she thought the pelled to perform sclerotomy. The pain was relieved left had been affected only since the other became but vision was not restored. In this case he vainly blind. No pain or inflammatory symptoms at any tried to cocainize the eye, and was forced to resort time. The treatment was liq. potassi arsenitis, gtts. ij, to general anaesthesia. He had observed the same t.i.d., iodide of potassium, grs. v, after each meal, thing in other glaucomatous eyes. Tension would Eserin, sulph. (gr. 38 f 3) instilled, twice a day, and seem to prevent the cocaine having its usual effect. dry cups to the right temple.

Dr. Richey said that Dr. Burnett had rather left

28, 1885, tension became normal,  $V = \frac{2}{2}\frac{0}{0}$ . Anterior intended to give a comprehensive treatise on the chambers natural and pupils normal in size. Eleven disease in his paper, but rather to bring out a few

modic in its action; and the eserine in mild solutions, thinking they are less likely to cause follicular con-

junctivitis, as reported by De Wecker.

DR. SWAN M. BURNETT said that we knew just ophthalmic surgeon fears as much as glaucoma. Dr. Richey thinks he has cured this case with eserine; but Dr. Burnett doubted if in six other cases one would be benefitted. He thought the doctor had not given sufficient credit to his great care of the patient's general health. He had seen so many things tried in vain for the treatment of this disease that he had begun to believe that we can not rely upon anything. The disease is slow in its progress and may go on from year to year without increase of tension. One of the leading ophthalmologists of Paris says that an iridectomy for this disease is pernicious in its effects; the patients get worse. This fact was verified by some cases under Dr. Burnett's observa-Judging from statistics collected by his assistant at the Dispensary, a larger number of females than males are affected by this disease. This is especially true of nervous women about the climacteric period. Dr. Burnett had examined Dr. Richey's patient, and had found the condition just as the doctor stated it. It is quite remarkable that such an amount of pressure should continue for such a long time and and came out of the opening the morning of the day Dr. Burnett enucleated the eye. He wished to call attention also to the insidiousness of this disease, and to the liability of its being mistaken for some other Patient was a female, aged 37, with absolute glautrouble. It is important to make a correct diagnosis

Under this treatment from January 21 to March the strict consideration of the paper. He had not months later the condition was the same. He pre-salient points as evidenced in his case and treatment.

Hardly any other result is to be expected. The subject of increased tension has occupied specialists for a long time, and it is now considered pathognomonic of glaucoma. The chronic form is the most insidious.

Dr. Burnett did not remember having ever before seen this disease in a patient eighteen years of the stomach, with no narrowing of the œsophageal age. He would give a more hopeful prognosis in the present case than that given by Dr. Richey.

DR. RICHEY said he had endeavored to correct the fermentative dyspepsia from which the patient suffered. Apart from that she was in fairly good health. He had also given her iodide of potassium, and had used dry cups. Judging from what he had seen of chronic simple glaucoma, he would not be inclined to give a favorable prognosis. Whether the good result already obtained was due to eserine or not, he did not know. He thought, however, that eserine, and not atropia, was the proper remedy, though some have reported good results from the use of the latter drug. He had no confidence in pilocarpine. In reply to a question by Dr. W. W. Johnston as to the pathological histology of the disease, Dr. Richey said we glean much of our knowledge from post-mortem examinations. Acute glaucoma is caused by something which interferes with the escape of fluid, though the secretion continues. There being no escape, the retina is obtunded and the circulation interfered with. Sometimes inflammatory changes occur, but not in chronic simple glaucoma.

Stated Meeting, January 4, 1886. THE PRESIDENT, W. W. JOHNSTON, M.D., IN THE CHAIR.

The following officers were elected for the ensuing year:

President-Dr. C. H. A. Kleinschmidt.

Vice-Presidents-Drs. W. H. Taylor and J. B.

Corresponding Secretary-Dr. T. C. Smith. Recording Secretary—Dr. T. E. McArdle.

Librarian—Dr. J. H. Mundell. Trcasurer—Dr. C. W. Franzoni.

Board of Examiners-Drs. McArdle, Fry, Acker,

L. Tyler, and E. C. Morgan. Board of Censors-Drs. Cook, Holden, and Hyatt.

Publication Committee—Drs. McArdle, Harrison, Fry, and Adams.

Committee on Microscopy-Drs. Lamb, Aiken, and Harrison.

#### PATHOLOGICAL SOCIETY OF PHILADELPHIA.

Stated Meeting, January 14, 1886. THE PRESIDENT, J. C. WILSON, M.D., IN THE CHAIR. W. E. Hughes, M.D., Recorder.

Dr. T. S. K. Morton presented a

CANCER OF THE LOWER THIRD OF THE (ESOPHAGUS, and gave a history of the case. A man, et. 60 years, WITH METASTASES TO THE STOMACH AND LIVER.

The case will probably ultimately result in blindness. before her death, with jaundice, vomiting, constipation, and lancinating pains in the right hypochondrium. The vomiting became uncontrollable, the matters several times containing coffee-ground material. After death there was found a scirrhus cancer of the lower third of the œsophagus extending to lumen. The retro-peritoneal glands were involved, and the head of the pancreas slightly. Scattered through the liver and stomach were numerous secondary nodules.

Dr. Morton then presented a specimen of

CIRRHOSIS OF THE LIVER WITH PERI-HEPATITIS,

removed from the body of a woman, æt. 40 years, who had been an excessive consumer of strong spirits. Symptoms had been present for five years, the most prominent of which were general ædema with marked ascites and diminution of the area of liver dulness. She died of an intercurrent attack of facial erysipelas. The liver weighed thirty-six ounces and was strongly adherent to neighboring structures. At its entrance into the liver the portal vein was much contracted, and below this point dilated.

Dr. Morton also presented a specimen of

AMYLOID DEGENERATION FOLLOWING CHRONIC

The patient, a girl, æt. 20 years, had no history of syphilis; there was a perfectly good family history. She had been in poor health, but with no positive symptoms, for two years. Last summer she had whooping-cough. After that she improved steadily till three weeks before her death, when profuse diarrhœa with high fever set in. This was the first attack of looseness of the bowels she had had. Jaundice gradually developed. The liver was found to be enlarged. The urine contained albumen and casts. The diarrhoea persisted, the passages containing blood and pus. At the autopsy the liver, spleen, and kidneys were found infiltrated with amyloid material, and the large intestine was throughout in a state of chronic dysenteric ulceration.

Dr. James Tyson said this was the first case he had ever met with in which there was this association of amyloid disease with dysentery as the etiological factor, although this seems the only possible cause in this case, in which the possibility of syphilitic disease seems excluded.

DR. WILLIAM OSLER thought it was well recognized that chronic dysentery might be followed by extensive amyloid disease. He had met with one or two instances in connection with chronic diarrhæa, which post-mortem examination showed dependent on chronic dysentery, with very much the condition of bowel present in Dr. Morton's specimen.

Dr. William Osler presented a

SPINDLE-CELLED SARCOMA OF THE RETRO-PERI-TONEUM WITH EXTENSIVE PHROMBOTIC DEGENERATION,

was admitted to the University Hospital in Septemfrom a woman æt. 61 years, of good family history. ber, 1884, with an abdominal tumor which had been Her illness commenced, by her account, eleven weeks noticed for about six months. He had lost flesh and strength, but there was no pain. The tumor formed called attention to the retro-peritoneal sarcoma prea solid mass, occupying a median position, extending sented by him to the Society last winter, which had above the umbilicus, and could be readily separated been mistaken by him and others for a tumor of the by palpation from spleen and liver. The case was kidney. regarded as one of Lobstein's retro-peritoneal sarcoma. For several weeks the patient passed daily stated that the only remnants of sarcomatous tissue over seven pints of clear urine, of low specific grav- were two or three small but very distinct portions in the ity, without sugar or albumin. The patient was sub-lower attached part of the tumor; the remainder had sequently admitted to St. Mary's Hospital under Dr. wholly undergone this thrombotic change, and in the O'Hara, and while there Dr. Mears aspirated the upper part had become converted into a blood cyst. tumor, the upper part of which had become soft, and. This change was no doubt slow, with first a destrucdrew off nearly two quarts of bloody serum. At the tion of the sarcomatous elements by the blood clot, autopsy the tumor was found to occupy a central and then a slow process of necrosis. There was no position, was covered by peritoneum, and was at-evidence in any part of the tumor of an invasion of tached to the tissues in front of the symphysis pubis, the coagulum by the sarcomatous elements, as is not and seemed to have grown from the subperitoneal infrequent in thrombi in other regions, as he had seen connective tissue in this region. The upper part of in the portal and renal veins. The chief interest in the mass was represented by a soft fluctuating cyst the specimen lies in the remarkable extent of the containing blood and shreds of firm thrombi; the thombotic change. Looking at the clinical aspect, places were recent extravasations. The weight was tumor he had ever examined. One remarkable feature estimated as at least eight pounds. The lymphatic about these tumors is their painless character. This glands were not enlarged. The kidneys were fibroid, man complained of no pain, and in two other similar The liver presented several secondary masses, one the size of an orange. Microscopic examination a symptom. showed the primary and secondary masses to consist of closely packed spindle cells. The reporter drew attention to the rarity with which spindle-celled sarcoma forms a large abdominal tumor, and to the unusual site of origin. The most interesting feature was the remarkable transformation which the greater part of the mass had undergone. This was attributed to repeated hæmorrhages and the gradual conversion of the extravasated blood into a dry, hard thrombus. Such a thrombotic change in a tumor was most unusual, and he had not been able to find reference to a similar instance. A third point referred to was the polyuria, which was doubtless due to irritation by been removed.

been attended with some hiemorrhage.

was the effect of thrombotic degeneration on the the serous effusion, and this latter is the result as in histological elements of tumors, and whether it was all cases of ædema and serous effusions, of an obpossible for clots to be converted into the tissue of struction in the venous circulation. In removing a the original tumor, as is asserted by some?

much interest from a clinical standpoint, in view of of this membrane is thus obtained. the possibility of surgical interference, and asked Dr.

Dr. Osler, in reply to Dr. Tyson's first question, greater part formed a solid mass, which on section he had diagnosticated the case as one of retro-peripresented a brownish-red color, was firm and dry, and toneal sarcoma from its large size. its being so had all the appearance of an old unstratified throm- centrally placed, its slight movability, its distinct bus. In an area of at least 8 × 7 inches this remark-separation from liver, kidney, and spleen, not being able condition existed. At the lower part there were placed more on one side than on the other, and from two or three grayish-white masses, evidently of a the fact that palpation in the lumbar region gave no sarcomatous nature. The capsule was formed of pain or other evidence of kidney lesion. It was condensed fibrous tissue, beneath which in many firmer above the brim of the pelvis than any other

## FOREIGN CORRESPONDENCE.

### LETTER FROM PARIS. (FROM OUR OWN CORRESPONDENT,)

The Value of Iridectomy in the Treatment of Detached Retina - Sparteine - Listerism - Dry Antiseptic Dressings.

Dr. Fano has recently published a paper on the Value of the Iridectomy in the Treatment of Detachment of the Retina. Iridectomy, the author states, pressure on the renal nerves. Reference was made acts in two ways in the treatment of this lesion: as to the facility with which the growth might have an antiphlogistic, as an expedient purely optical. He explains that detachment of the retina is not an Dr. J. Ewing Mears thought the growth could idiopathic affection; the production of a serous effuhave been removed, though the removal would have sion between the choroid and the retina is the conscquence of some circulatory trouble in the vessels of DR. Tyson asked Dr. Osler what, in his opinion, the choroid. The detachment is only the effect of portion of the iris as in iridectomy, a great number THE PRESIDENT remarked that the case was of of the vessels of the iris are divided, and a depletion

The vascular system of the iris having a great num-Osler whether the conditions as found post morten, ber of anastomoses with the vascular system of the suggested any means by which such a tumor as this choroid, a mediate depletion of the vessels of the could be diagnosticated from a similar growth occu- latter is also produced. The chances of reestablishpying the more usual position in the lumbar region. ing the circulation of the choroid to its normal con-Dr. Tyson, in connection with the clinical history, dition is thus afforded, the re-absorption of the effused liquid behind the retina, and a radical cure of the same time, the strength acquired by the muscle. Aldetachment of the retina being the consequence. In though the sulphate of sparteine may be considered some cases the detachment of the retina is limited to a new remedy, yet the plant from which the alkaloid only a portion of this membrane. The portion un- has been extracted had for a long time been emdetached continues to receive the impression of ployed in medicine. The young sprouts, the flowers luminous rays; the detached portion acting like a and seeds are diuretic and purgative. The plant screen, prevents the luminous rays reaching that part was considered very efficacious in the treatment of of the retina which has preserved its sensitiveness. dropsies, gravel, albuminuria, and affections of the To improve the vision the luminous rays which enter heart. the eye must not be allowed to be absorbed by this screen, but should arrive at the portion of the retinal dressing wounds, is now scarcely ever employed dectomy a greater number of luminous rays reach the forms than the spray the antiseptic method has ady progressing.

just introduced by Professor Sée into the armamenthen dried. The dressing consists in the direct aptarium of therapeutics. At a recent meeting of the plication of these leaves on the wound, the whole Academy of Sciences the learned Professor described being covered with layers of gutta-percha and fastsparteine as an alkaloid obtained from the *Sparticum* ened with a bandage. The tissues thus prepared are scoparium, which was discovered in 1850, by Sten- inexpensive, very light, and not bulky. By this house, so that strictly speaking it cannot be termed means the asepticity of the wound is ensured, and a new substance, but a new remedy. M. Sée exper- it permits of the employment of the more classical imented with the alkaloid in the form of sulphate, antiseptic dressing when once the soldier has reached and the following effects were the result: The first his permanent ambulance. Some of these leaves was an improvement in the action of the heart and may be arranged under his cuffs, and the sick-bearpulse. In this respect it is equal to digitals or to ers may be supplied with a few packets of them convallamarine, but its effects are more decided, which they may apply themselves. prompt, and durable than either. The second effect is the regulation of the rhythm of an irregularly acting heart; in this respect no other drug is said to be compared to it. The third effect observed is that of increasing the rate of the cardiac contractions, thereby rendering a slow pulse more frequent, thus acting like belladonna.

after the administration of the drug, and last for three or four days after its suppression. During this time the general strength is increased, the breathing not appear to be influenced by the alkaloid in modnormal type. When the circulation is slackened, our vicinity recently. the alkaloid appears to immediately overcome this

Listerism, or the so-called antiseptic method of which remains in situ. In enlarging the pupil by iri- in surgery; but there is no doubt that in other fundus of the eye, increasing the intensity of the image. such advantages that a surgeon would be considered In affording the new pupil a position directly the re- culpable of neglect if he excluded it from his pracverse of that occupied by detachment of the retina, the tice. Its employment in the hospitals in the times luminous rays which traverse the new pupil are not of peace is attended with little or no difficulty, but arrested by the screen represented by the detached on the field of battle it is a very different matter. portion. Hence, if the detachment is in the upper To overcome the difficulty Dr. Bedoin, principal part of the retina, the artificial pupil should be prac- medical officer at Vincennes, proposes that all wet tised below; should it be in the lower part, the pupil or moist dressings should be rejected, as well as pulwill be above. Dr. Fano cited several cases of his verulent dressings, as being impossible to be properly clinic to show that medicinal treatment is of little or applied, and recommends the employment of tissues no avail in this affection, and although iridectomy previously impregnated with some antiseptic subdoes not effect a thorough cure, yet, the vision is stance, such for instance as ungummed filtering paconsiderably improved and it may prevent the mal-per, gauze, lint, or jute, as being the most inexpensive. These tissues are steeped in a solution of Sparteine is the name of another new substance carbolic acid, boric acid, or of corrosive sublimate,

# DOMESTIC CORRESPONDENCE

### THE ETIOLOGY OF ACUTE CORYZA.

Dear Sir: - The fact that rhinitis, pharyngitis, lar-All these phenomena appear within a few hours yngitis and bronchitis or so-called catarrh are caused by micro-organisms and not by cold, was forcibly impressed on my mind about two weeks ago. the last month there has been a great deal of wet becomes easier, but the urinary function alone does weather in Pittsburgh, and this, together with the fact that many of the streets of the city have been dug erate doses. The indications for its administration up for the purpose of laying gas and water pipes, are sufficiently clear, that is, the sulphate of sparteine setting free these micro-organisms, which, as I believe, may be usefully employed in all cases of weakness of have been the cause of a sort of endemic of catarrh the myocardium, whether it be the result of an alter- which has been prevailing here for the last month. ation of its tissue, or whether it has become insuffi- These micro-organisms seem to have found their favcient to overcome the obstacles to the circulation, orite lodgment in the mucous membrane of the nose, When the pulse is irregular, intermittent, arythmical, pharynx, larynx or lungs, thereby causing the numerthe sulphate of sparteine rapidly restores it to its ous cases of catarrh which have been prevailing in

The fact that quinine taken internally in 5-grain functional trouble, maintaining or increasing, at the doses has been the most effectual treatment in these

cases of catarrh, has further induced me to the belief were divided between one excision of the elbow for thoroughly broken up.

as to the etiology of acute coryza given by Dr. Austin Flint, Sr., in an article in THE JOURNAL, of No-JOHN M. BATTEN. vember 14, 1885.

73 Sixth Ave., Pittsburgh, Pa., November 16, 1885.

## BOOK REVIEWS.

Annual Report of the Supervising Surgeon-GENERAL OF THE MARINE HOSPITAL SERVICE OF ing Office. 1885.

Service.

crosed bone. Four operations of excision of joints bral symptoms were noted, had effected the point of

that parasitic organisms are the cause of the so-called necrosis, with good results, one of the hip for morcatarrh. How quinine operates as a parasiticide, \*bus coxæ, fatal, one for ankylosis and caries of the whether locally, or more remotely by the circulation, knee, with good result, and two successful resections I am unable to say; but I am pretty confident that of the ankle for caries and necrosis. Two successit acts effectually. It has been my custom to pre-ful operations for stricture of the rectum, one by inscribe 5 grains of sulphate of quinine three times a cision and one by divulsion, are recorded. We can day for two days, and the cold then would be pretty see no good reason why the names of the operators are not given, as well as a few other particulars con-These facts I offer as bearing out the suggestions cerning the more severe operations. As it now stands, the tabulated statement is absolutely valueless for reference.

Following the list just mentioned are some "selected cases from hospital practice." The first paper under this head is on Cases of Peculiar Forms of Fever by Passed Assistant Surgeon John Guitéras, and is a most interesting account of some of the peculiar forms of fever observed in the Southern portion of the United States. The second paper is a report of a case of resection of the ulner nerve for neuralgia and loss of function, which has already THE UNITED STATES, for the Fiscal Year 1885. been mentioned. The nerve was brought together 8vo, pp. 179. Washington: Government Print- by two fine catgut sutures. The wound healed by first intention. The pain disappeared entirely from There is much interesting material in this small the time of the operation, and three weeks afterpamphlet. The first twenty-four pages contain the wards sensation began to return in the little and ring official report of the Secretary of the Treasury, the fingers; a month later in the muscles supplied by most interesting part of which is a description, by the nerve; "and six months after the operation the the architect, of the new Marine Hospital at Balti-hand had so far recovered that the man was enabled more, which is to consist of eight buildings. Six of to whittle out a miniature merchant man with the of these will form the Hospital portion proper, three injured (right) hand." The operation was performed being houses for executive business, for the Assistant in the Marine Hospital Dispensary, Portland, Ore-Surgeon, and for the boiler, engine, dining-room, gon, by Assistant Surgeon Arthur D. Bevan. Passed kitchen, etc., and three being ward buildings. All Assistant Surgeon A. T. Armstrong reports an interof the principal floors are on one level, and are conesting case of Syphilitic Disease of the Pons Varolii. nected by wide and spacious verandas, which ex- In the substance of the pons was a spherical cavity tend entirely around the ward buildings. The wards about one centimetre in diameter. Cerebral sympproper are 30 feet wide, 100 feet long, and 16 feet toms first appeared two years after he came under high at the sides, and each will accommodate twenty treatment for secondary syphilis. "He complained patients. Each ward has two diagonal wings, which of having suddenly been troubled with pains in his can be isolated from direct communication, one con- head and dizziness when he was in a high place. His taining water-closet, bath and lavatories, the other a smoking-room. The buildings are to be heated by steam or hot water from the boiler room. The still complained of dizziness, and of cephalalgia ground-plan of the hospital is nicely shown on a (Feb. 28). On April 11th he was admitted to the large folding sheet. When completed this will be hospital with paralysis of the right arm and leg, which the seventeenth hospital in the Marine Hospital commenced gradually on the day before. On April 13th there was complete right hemiplegia, with diffi-Passing over an extensive statistical statement to cult speech on account of involvement of the tongue. the report of surgical operations during the past year, On the 17th he had a fit, somewhat cataleptic in we find that the femoral artery has once been suc- character, "the most marked feature being perfectly cessfully ligated for popliteal aneurism. In a case rigid muscles." This state lasted about half an hour. of gun-shot wound of the popliteal vein both ends. He died comatose on April 21st. The cavity in the of the vein were tied. In a case of neuralgia and pons, already mentioned, involved the median line, loss of function of the ulner nerve, 1¼ inch was but was mainly to the left of it, and was 3 centime-dissected, the operation resulting successfully. Five tres below the anterior surface. "There is one etio-logical factor for consideration. Syphilitic degenersuppuration of the patella bursa, one for synovitis, ation of the anterior coats was not noticed in this two for suppuration of the joint, in which the bone case. In December, 1883, necrosts of the left alwas scraped, and one for loose cartillage. Three operations on the skull are reported; one for frac-Probably this caused disease of the left superior maxima. ture, in which the skull was trephined, with a fatal illary nerve. This degeneration extended backresult, and two successful cases of removal of ne- wards, and in December, 1884, when the first cerepons varolii. Here a sympathetic and gradual de-puzzled by such an appearance under the microscope. cases, with autopsies. Among these, under the re- on the subject. port of a case of phthisis, is a description of a supernumerary kidney. It was found in the hilum of the left kidney, attached to its ureter by a small duct (ureter). On examination no evidence was found to show that it had performed the functions of a kidney. Probably the most interesting of these reports is that of a case of uramia, complicated by meningitis from

URINE. For the Use of Physicians and Students. By James Tyson, M.D., Professor of General of Pennsylvania, etc. Fifth Edition. Revised Engravings. 8vo, pp. 249. Philadelphia: P. Blakiston, Son & Co. 1885. Chicago: W. T. Keener.

reflex irritation due to renal calculus.

the examination of urine was in the press when the first announcements were made of the new and deli- become Permanent Members in the manner above cate tests for albumin, and those interested in the indicated, but apply to the Trea urer for membership, subject have looked forward with no little interest to forwarding at the same time to him five dollars and the the appearance of this edition. These tests are fully certificate of the President and Secretary of their State considered in the present edition, and, with perhaps or local society, that they are in good standing in one or two exceptions, have been assigned to what such society. They pay five dollars annually thereseems to be their proper places. These exceptions after, when notified by the Treasurer. Members by are in regard to the picric acid and potassio-mercuric application can join the Association at any time, and iodide tests, and the test-papers for the detection of they receive regularly the weekly JOURNAL. albumin. In the case of the potassio-mercuric iodide WHEN DUES ARE PAVABLE.—The annual dues test we cannot agree with the author that the urine from Permanent Members are payable to the Treasrequires no previous acidulation. "In my own ex- urer at the time of the annual meeting of the Assoperiments," says the author, "I have several times ciation, or immediately thereafter. The payment failed with the mercuric iodide when I succeeded entitles the member to receive the JOURNAL for one both with picric acid and sodium tungstate." It is year from the following July. Payment for 1885, for entirely probable that his want of success in such example, entitles the member to the JOURNAL from cases was due to the fact that he did not add citric July, 1885, to June, 1886, inclusive. acid, as advised by Oliver and practised by Ralfe.

description of Dr. Tyson's book, as almost everyone requested to do so at an early day. Having entered seems to have seen or used one of the earlier edi- upon another year of membership, they are morally tions. For its size it contains more information as and legally responsible to the Association for the to the proper methods of testing urine than any book payment of their annual dues, having already received in existence. It is clearly written, the directions for three months of the new year-1885-the JOURbeing concise and in such language that the veriest NAL of the Association. tyro should understand them. The chapter on urin- Subscriptions to the Journal, from those who ary deposits is much more full than is found in many are not members of the Association, should be forlarger volumes. It contains a colored plate showing warded to the office of publication, 65 Randolph pigmented markings on glass slides, which will be Street, Chicago, and not to the Treasurer; but all

origin of these special fibres of the fifth nerve in the regarded with interest by many a man who has been

generation of the substance of the pons was initiated, To one who has paid little or no attention to the involving adjacent nerve tissue, and interrupting the examination of urine during the past five years, by decussated motor fibres to the cord, with consequent the new methods that have been introduced in that paralysis of the right side. More than this, fibres to time—and of such there are too many—Dr. Tyson's the ganglia of the medulla oblongata were degener- book will be a revelation and a great boon. With it ated, causing those expressions of medullary epileptiform spasm, and eventual death from interference with the respiratory centres." This explanation is soon to be announced in these columns, a physician offered as a working hypothesis in the etiology of will be thoroughly equipped for the investigation of some forms of syphilitic cerebral disease. Dr. Arm- abnormal conditions of the urine and kidneys, and strong also records a case of malignant cedema. The for their proper medical treatment—at least as far as remaining pages are taken up with reports of fatal the present state of our knowledge has thrown light

## ASSOCIATION ITEMS.

## INFORMATION OF IMPORTANCE TO ALL MEMBERS OF THE AMERICAN MEDI-CAL ASSOCIATION.

MEMBERSHIP.—Every one who attends an annual A GUIDE TO THE PRACTICAL EXAMINATION OF meeting of the Association as a delegate pays at that time five dollars, and thenceforward becomes a Permanent Member. He continues as such as long as Pathology and Morbid Anatomy in the University he remains in good standing in the body from which he was originally sent as a delegate. As a Permaand Corrected. With Colored Plates and Wood nent Member, he must pay Five Dollars Annually, when notified by the Treasurer, whether he attends the meetings of the Association or not. Payment of annual dues entitles him to receive the weekly The fourth edition of this now standard work on JOURNAL of the Association for one year.

MEMBERS BY APPLICATION are such as have not

As some of the members have not yet forwarded It seems scarcely necessary to give any detailed to the Treasurer their dues for 1885, they are urgently

payments of annual dues must be forwarded to the Treasurer, Lock Box 1274, Philadelphia.

form the Treasurer at once of the fact.

the amounts for which they are indebted to the Association.

nual volumes, thirty-three in number, to 1882 inclu- been strangled, but not by its mother. Her hand was sive, may still be obtained, with few exceptions, from more delicately formed than that of the murderer, the Treasurer, at reduced prices. The Index to which had left its impression on the child's neck. these volumes will be forwarded on receipt of One The fingers of the guilty party must have been short scarce.

RICHARD J. DUNGLISON, M.D., Treasurer. Lock Box 1274, Philadelphia, Pa.

### MISCELLANEOUS.

I OHIO STATE SANITARY ASSOCIATION.—The third annual meeting of this Association will be held in Columbus on February 24 and 25, 1886. There are good prospects for an unusually interesting meeting.

CREMATION IN PARIS.—The Municipality of Paris has recently decided to erect a crematory at Père Lachaise Cemetery, and the plans have already been accepted. The expense of cremation must not exceed fifteen francs (\$3.00), and the time required for combustion two hours. The erection of a suitable building for the urns or other funeral vases containing the ashes of dead relatives is contemplated.

SIR J. CRIGHTON BROWNF.—Those who have read Dr. Browne's valuable contributions to psychological literature, will be interested in knowing that the honor of Knighthood has been recently conferred upon him.

PRIZES OF THE SPANISH MEDICO-CHIRURGICAL ACADEMY. The Spanish Medico-Chirurgical Academy has published the following programme of themes Col. Thomas A. McParlen, Surgeon, now waiting orders in for prizes to be given at next year's competition. The essays may be written in English, and must be sent in by the middle of September next, accompanied by a sealed packet containing the author's name and address, a motto-being endorsed on the envelope similar to that inscribed on the essay. 1. Prize given by the Academy. Lio. What modifications has the panspermist theory produced in the treatment of internal diseases which are known, or suspected, to be of a parasitic nature? 2. Prize given by Senor Morales, £,30. Critical examination of the progress made in operations on bones.

FINGER-MARKS AND MURDER .- Our Paris correspondent forwards particulars of a remarkable trial DEATHS .- When a member of the Association, for murder held recently at Rodez, in the south of who is in regular receipt of the JOURNAL, dies, his France, where a self-accuser was proved to be innofamily or other representatives are requested to in- cent, and the true criminal detected by medical evidence. Last August, a woman, named Mélanie Vieu, PAYMENT OF DUES FOR PREVIOUS YEARS.—As a went to register the death of a child, which she had few members of the Association are still in arrears wrapped up in her apron. The registrar examined for payment of dues for 1883 and 1884, they are the child, as is customary, and observed finger-marks requested to forward at once to the Treasurer on its throat. The mother then declared that she had strangled her infant. She was sent to prison; but Dr. Desmont, who had been directed to examine Transactions of the Association.—These and the body of the child, stated that it had certainly Dollar. An opportunity is thus afforded to complete and thick, the index-finger being unusually short, and sets of these valuable publications, or to obtain im- apparently devoid of a nail, defects which the witness portant papers and works which are daily becoming indicated as valuable clues for the discovery of the murderer. Mélanie Vieu finally admitted that the murderer was a man ealled Bonuet, and that she was his servant. The accused was arrested, and his index-finger was found to be one centimètre shorter than the average length of that member, and its nail had been destroyed by accident or disease. Bonuet was sentenced to six years' imprisonment.—British Medical Journal, Jan. 9, 1886.

> MERRITT HURST, M.D., late of Sweetwater, Menard Co., Illinois, died suddenly of disease of heart (supposed) on October 4, 1885. Dr. Hurst was born in Washington County, Ky., on July 14, 1840, and removed with his family to Illinois in September, 1849. He served as a private soldier and as first Lieutenant in the Civil War, and at its close began the study of medicine with Dr. A. E. Currier, of Sweetwater, Illinois. He graduated from Rush Medical College, Chicago, in 1868, and at once began the practice of medicine in Sweetwater. His life from that time was devoted to his profession. He was brotherly in his professional work, and left a community besides his relatives to mourn his loss. He was a member of the local medical society, and of the Illinois State Medical Society. He became a member of the American Medical Association at its last meeting.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTTES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT. U. S. ARMY, FROM JANUARY 9, 1886, TO JANUARY 15, 1880

New York City, ordered for assignment to duty as Medical Director Dept. of the Platte on Jan. 24, 1886. (S. O. 5, G. O., Jan. 7, 1886.)

Lt -Col. Ebenezer Swift, U. S. Army (retired), died near Hamilton, Bermuda, Dec. 24, 1885.

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S. MARINE HOS-PITAL SERVICE FOR THE TWO WEEKS ENDED JANUARY 15, 1886.

Sawtelle, H. W., Surgeon, to proceed to Los Angeles and Wilmington, Cal., as inspector. Jan., 1886.

Godfrey, John, Surgeon, to proceed to Chattanooga, Tenn., and Rome, Ga., as inspector. Jan. 8, 1886.

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## ORIGINAL LECTURES.

### LUPUS ERYTHEMATOSUS.

A Clinical Lecture Delivered at the College of Physicians and Surgeons of Chicago.

BY HENRY J. REYNOLDS, M.D.,

PROFESSOR OF DISEASES OF THE SKIN IN THE COLLEGE.

and is at the present day usually so considered. In favorably it is followed by a smooth, uniform scar. this disease and lupus vulgaris we never find the one merging into the other, nor do we find intermediate forms between the two diseases, as in the various forms (so-called) of eczema and acne, for example; healthy. Patient is at present otherwise forms (so-called) of eczema and acne, for example; healthy. The eruption first made its appearance a they always remain distinct from first to last. The year ago, as a slightly elevated, brownish-red macule erythematosus.

new spots are apt to appear; first, perhaps, upon the opposite cheek, then the nose, forehead, scalp, etc. We rarely find less than two patches, and sometimes they are numerous, and when the case is first seen by the physician they may represent all stages of progress of the disease. These patches remain constantly about the same, except that they gradually spread by peripheral extension, the border of which is well defined and slightly raised. As the patch spreads peri-I will to-day, gentlemen, invite your attention to pherally the central part shows less activity, and the study of a comparatively rare form of disease; becomes atrophied and depressed, giving, as in ring-the case before us being the first of the kind presented worm, the appearance as if clearing in the centre. at our clinic now for about a year, during which time If untreated, each patch is seen to be covered with we have had, perhaps, almost a thousand different cases | yellowish-white, firmly adherent scales, upon removal of skin disease presented for treatment. Though, to of which, they will be found sometimes to project a certain extent, similar in character, and bearing a down into the sebaceous ducts. There is no moisture somewhat similar name to lupus vulgaris, upon a case or discharge in the disease from first to last, and the of which, you will recollect, we made the scraping subjective sensation is that of occasional or constant operation a few days ago, it should, I think, be re-slight itching, for the relief of which the part is more garded as an entirely separate and distinct affection, rubbed than scratched. If the disease progress

name of this disease to which I refer and of which I about three-quarters of an inch below the right eye; have a case for your inspection, which illustrates soon another similar patch appeared at an almost the disease in a most typical manner, is lupus corresponding point on the opposite side; and later other patches appeared about each cheek, on left Before directing your attention to this individual ear, etc., till we now find about half a dozen of such case, however, let us first get a general idea of what patches. The size of the patches representing their the symptoms and characteristics of lupus erythema- order of evolution, you will notice now, as he passes the symptoms and characteristics of highs erythema-tosus are. According to the classification we have adopted the disease belongs to the class known as "new growths," and, as the name implies, it presents an erythematous or reddish appearance. It is found chiefly upon the face, generally makes its appearance chiefly upon the face, generally makes its appearance. You will notice that perhaps the from adult to middle life, and is more frequent in most striking characteristic is the redness or crythefemales than in males. There is not necessarily, so matous condition, from which the disease has received far as we are capable of discerning, any appreciable its name; that it is confined to the face, the favorite constitutional disturbance. It is an extremely chronic site for the disease; that the subject is neither in affection, lasting sometimes for years, or even through-childhood nor old age when attacked; that it is out life, in spite of treatment. The sites of preference extremely chronic, slow, and free from exacerbations are the cheeks or nose, the eyelids, forehead, ears, in its progress; and that we have an occasional cropare the cheeks or nose, the cyclics, forehead, cars, in its progress; and that we have an occasional cropscalp, and more rariely the hands and feet. Occur- ping out of a new patch with a similar behavior symmetrically. The disease generally first makes its appearance as a small pea-sized, slightly elevated, that each of these patches is accurately defined, with brownish red macule upon the cheek or nose. In a slightly raised, active border, and a tendency to due process of time, as the original patch progresses, clear in the centre; that they spread by peripheral

extension; and are circular or oval in outline. You aggravate, most local diseased conditions, no matter will see, also, that each patch is covered by the char- how remote, and should therefore be sought out and acteristic yellowish, firmly adherent scales, and, rectified by proper constitutional measures. or discharge, and that there is evidence of a tendency verted nutrition in the diseased part, giving rise to to atrophy, depression and scarring in the centre; the new growth, a deposit of inflammatory exudate, etc., case thus, as you see, presenting all the characteristics the rational inference would be, that such topical of the disease.

acteristics referred to in this case alone, collectively change in character the nutrition of the involved riasis, and superficial epithelioma.

tive, involves deeper tissues, ulcerates. etc.

the parasite with the microscope, and no scar as a plied, as, for instance, a drachm of sulphur to an relic of the disease.

In eczema we have a history of moisture, greater of the green soap. itching, it is more acute, the margins are not well defined, it is not limited so constantly and continuously to one location, there is not necessarily a raised margin and a clearing in the centre, the scales are not so adherent, and there is no scarring as a relic of the disease.

In psoriasis the almost pathognomonic, white, silvery scales, which leave, upon removal, the characteristic red, bleeding patch, together with its usually general distribution, would alone exclude that disease.

Superficial epithelioma is a disease of old age. this disease we have excoriation, moisture, brown crusting, ulceration, greater destruction and lack of symmetry.

It will be seen, therefore, that each of these diswe do not find in the case under consideration, and we therefore thus exclude them.

As to the etiology of the disease nothing is definitely known; some regarding it as of scrofulous origin, others as sebaceous, and others as having no connection with either.

Treatment.-Various remedies have been recommended for internal administration, such as iodine, iodoform, arsenic, etc., as having a special influence tional disturbance, however, in this disease, or if any, its exact nature not being definitely understood, the treatment, to be intelligently applied, must be mainly local. There being, however, such an intimate relation existing between the various organs and strucdependent upon the other, any constitutional impairment naturally tends to prolong, if not to

lastly, that the disease is entirely free from moisture. As to local treatment, inasmuch as we find a perapplications as tend to increase the physiological Diagnosis.—Now, without going further, the char- afflux of blood to the part, and thereby increase or considered, are sufficient to base a diagnosis upon; structures, promote absorption of deposited material, the same combination of symptoms occurring in no etc., would be indicated; and to this end are used other disease. As many other skin diseases display certain stimulants, irritants, etc., among which may some of these same symptoms, however, let us see be mentioned the daily application of hot water, what they are and exclude them. Among them may rubbing in of green soap, application of iodine, be mentioned lupus vulgaris, ringworm, eczema, pso-chrysarobin, pyrogallic acid, sulphur, mercury, cantharides, etc., in various forms and combinations, as Lupus vulgaris may be excluded by its first ap- results seem to indicate. In this case we will order, pearing, usually, in childhood. It is more nodular for the present, the parts bathed every night with hot and lacks symmetry of distribution, is more destructivater, then wiped dry and green soap rubbed in to remain for the night. In the morning the parts will In ringworm of the face there is no tendency to be again bathed and cleansed with hot water, and symmetrical distribution, it is not so chronic, it lacks fine impalpable boracic acid be applied for the day, the characteristic yellowish, firmly adherent scales, morning and noon say, the same process to be rethey being loose and furfuraceous, the border is not repeated every day. If this set up too much irritaso active and raised, it pales more on pressure, and tion, the treatment must be changed from time to we further have a history of contagion, discovery of time and milder and more soothing measures be apounce of lard or rose-water ointment at night instead

## ORIGINAL ARTICLES.

## MUTUAL PROTECTION AGAINST BLACKMAIL.

BY E. J. DOERING, M.D.,

OF CHICAGO.

Among the many trials which physicians have to In encounter in the practice of their profession, is the ever-existing liability of being blackmailed. This may either assume the more frequent form of a socalled malpractice suit, or the relatively less frequent charge of a criminal assault, according to the viciouseases is possessed of numerous characteristics that ness of the complainant. It is undoubtedly a fact that such suits against physicians are on the increase. The New York Medical Record has reported a large number in the course of the past year, and a glance over the Court-record in this city will prove the correctness of my assertion, as far as Chicago is concerned. Every city is overrun with petty lawyers, who have little or nothing to do, and are always willing to undertake any suit whatever if there is the least prospect of getting something out of the deover the disease. There being no special constitu- fendant. From what I have learned since investigating this matter, I am convinced that many of these blackmail schemes are settled before being made public. Many a physician has preferred the payment of one or two hundred dollars rather than incur the publicity, the loss of time, and the endless tures of the body, the one being therefore so expense of a lawsuit. Again, the average jury, composed as a rule of the vulgar and illiterate, will al-

<sup>1</sup> Read before the Chicago Medical Society, January 18, 1886,

blame a brother practitioner if, with all these facts ordered a removal to the Small-pox Hospital. The staring in his face, he prefers being robbed by paying plaintiff remained there a short time and was disthe blackmailer a stipulated sum, rather than go to charged, and subsequently brought suit for damages law?

ally I have never been sued, or threatened with a ommendation was adopted. suit, and as I do not practice surgery in any of its branches, I consider myself comparatively safe. It ence with reference to the proposed association. Dr. is therefore not from any motive of selfish interest, Wm. H. Byford writes as follows: but from a sincere regard for the welfare of my professional brethren, that I desire to submit to your consideration the advisability of forming an association for the mutual protection of physicians against blackmailing suits of all kinds, arising from their relations as members of the profession. My plan is to form an association composed of about two or three hundred members of the regular profession, all of whom shall be of acknowledged ability, possessing a good moral character, and standing well in the community. Said association to employ one of the prominent law firms by the year, to furnish the members such legal advice as they may desire, and defend any suit arising against the members in the five dollars for a membership of two hundred would five dollars would create a sufficient fund for court its advancement. expenses. It is not necessary to enter into further details, which can be easily arranged if it be desired to form such an association. It is my firm belief that such an association would be a power in pretalent obtainable, and he will be let severely alone ty, the blackmailers. by the dregs of society who constitute, almost without exception, the blackmailing element in our professional life.

of \$500, if necessary, be appropriated to aid in the two prominent representatives of each of the special

ways have a strong leaning towards the complainant proceeding." The Drs. Purdy reported what they and against the defendant, as physicians are popu-believed a case of varioloid. The Health Board larly supposed to be capitalists. Who, then, can sent an inspector, who saw the patient, and the Board against the defendants with the plea that she did not In justice to myself, I desire to state that person- have varioloid. On motion of Dr. Agnew. the rec-

I desire now to submit to you some correspond-

Dear Doctor:-Your project of forming a physicians' mutual protective association, I hope will be successful. One of the greatest incentives to blackmail medical men is a fact well-known, i. e., medical men are not united. There are some among us who think it very much to their interest to destroy a rival. by encouraging malpractice suits. A powerful association of the kind you propose would prevent these or other viciously disposed persons from doing the harm they now sometimes do.

(Signed) W. H. Byford.

Our President, Dr. Parkes, writes as rollows:

Dear Doctor:-Your letter of to-day was duly redischarge of their professional duties. From corres- ceived and the contents carefully read. 1 think. pondence with lawyers, I find that an annual due of Doctor, the association you contemplate forming is greatly needed. I am heartily in accord with you suffice to cover the expense. An initiation fee of and will contribute whatever is within my power for

(Signed) Chas. T. Parkes.

Dr. D. R. Brower writes as follows:

Dear Doctor:-Yours of this date to hand. renting suits being brought against its members. Let earnestly endorse your mutual protective associait be known that the individual physician is backed tion. It will be, as you predict, a means of drawing by the financial and moral support of a few hundred closer together the members of our profession, and of of the best physicians, and aided by the best legal protection against the vilest of all members of socie-

> (Signed) D. R. Brower.

The following extracts are from a letter of Dr. B. Bettmann. As will be remembered, the doctor was There is only one possible objection, it seems to sued by a charity patient, who did not even have the me, which can be raised against such an association, shadow of a case against him: "A heart-rending and that is, whether the fact of being a member of reference by claimant's counsel to her old age, insuch a body would not prejudice the jury against the firmities and poverty, had the desired effect. The physician. As this is a legal point, I have consulted jury, after five hours' deliberation, brought in a verseveral lawyers about the matter, and with but one dict for plaintiff, fixing the damages at \$4,480. This exception they agreed that no such objection could unjust verdict was set aside by the Judge, and a new be raised, provided the scope of the association trial was granted, which took place several months would be as outlined in one of the legal opinions later, and the case dismissed. The plaintiff took a which I shall read later. I do not know of the ex- non-suit and recommenced hostilities in the shape of istence of such an association as the one proposed, a new suit for \$25,000, which, by order of the Judge. in any other city; but I find the principle of mutual was stricken off the calendar. The expenses inprotection has been carried out recently by the New curred by these trials amounted to \$250. The an-York County Medical Society. From a report of novance and mental strain I underwent are beyond an adjourned annual meeting of that Society, held the comprehension of those who have not been November 23d, 1885, I quote as follows: "The placed in a similar unfortunate position. I heartily comitia minora recommend that the Society request recommend the formation of a physicians' protective Drs. A. E. M. and A. S. Purdy, defendants in the case union, which should be represented by an able lawof Brown versus Purdy, to appeal, the jury having yer, chosen by a committee. 1 also would suggest brought in a verdict of \$500, and also that the sum the appointment of an Advisory Board, composed of would be to thoroughly investigate every malpractice self, or attempts to do so, and then neglect his pasuit brought against a member of the union, and to tient as much as he chooses. If a considerable assist in every possible manner to secure justice."

BOERNE BETTMANN.

Dr. J. H. Etheridge states his opinion as follows, after briefly referring to an unsuccessful attempt, several months ago, to blackmail him: "I am heartily the question in all its aspects. in favor of organizing a physicians' mutual protective association against malpractice suits. The existence of such an organization would deter many a person from beginning suits, when it is once understood that physicians are organized and possessed of funds and an attorney who means business. The careers of many struggling young physicians would oftentimes be assured, were they only fortified and upheld by such an association. I heartily endorse your efforts in this direction, and slall be pleased to cooperate with you in any capacity."

J. H. ETHERIDGE.

Dr. S. C. DeVeny informs me that a recent most outrageous blackmailing scheme has cost him to date \$800, which is small, however, compared to the loss of time and the mental distress he has been subject- the prosecuted doctor would choose to protect his ed to. The doctor also is in favor of a protective personal interest. You know it is with lawyers like association.

for the case was tried twice—I paid my lawyers the attorney of my own choice. and short-hand reporters in round numbers eleven hundred dollars. Each trial consumed about four days. In addition to this I spent nearly one week in coaching my lawyers on the medical aspects of the case. The trial came at a time when I could ill afford the expense. I think it will be best to form but it seems to me that these needs are small, that an association of physicians and employ an attorney by the year, for the following reasons: First, the lawyer should have some knowledge of medicine, and after a trial or two his competency could be proven; second, the attorney would soon become posted in regard to the medical witnesses, and in any given case would know who of the physicians to call; third, I believe that this plan would be cheaper in the end. If the defendant in a malpractice suit desires another attorney as an assistant to the one furnished by the association, let him hire the attorney at his own expense. If an attorney were employed by the year he could be consulted at any time by the members of the association in case they feared a suit, and thus have legal advice from the beginning.

PLYMMON S. HAYES.

Dr. E. L. Holmes writes as follows:

Dear Doctor:—I would gladly take any measures for protection against malpractice suits that would really protect. Would not the fact of belonging to such an organization as you mention, be a disadvantage to a physician brought to trial before a jury? Would the jury not be prejudiced against such a physician as, I believe, it always is against one who at- as follows: tempts to fortify himself by securing a written agreehave always, as far as I know, turned upon the phy- are peculiarly liable to be threatened and harassed,

branches of medicine. The duties of such a counsel sician with the accusation that he has guarded himnumber of our friends have confidence in the plan, and it has been in successful operation in other places, I see no reason why I should not be willing to join the organization. I should wish to discuss

E. L. HOLMES.

The following letter is from Dr. F. C. Hotz:

Dear Dector: -- I have had a little experience in malpractice suits, having been sued two years ago. My attendance in court did not extend, all in all, over two hours, but how much time I spent with my attorney in preparing for the case I cannot say. The case was dropped by the plaintiff after his witnesses had testified, but it cost me \$250, actual cash expenses. As to the forming of an association, I have some doubts as to its practicability. These suits are not brought against the association, but against the physician himself. They are, therefore, a very personal matter, and it might be that the lawyer chosen by the association might not be the one whom physicians, largely a question of confidence; and I, The following letter is from Dr. Plymmon S. Hayes: at least, if I should be unfortunate enough to have Dear Doctor: - In regard to my malpractice suits another malpractice suit, should wish to employ only

F. C. Hotz. (Signed)

Dr. H. A. Johnson writes as follows:

Dear Doctor: —I have thought over your proposed mutual protective association. I may be mistaken in my estimate of the needs of such an organization, it would hardly justify the labor and expense of the machinery. I do not hear of suits for malpractice very often, and possibly I am so far out of the way, I mean out of the general practice, that I have over-H. A. Johnson. looked them. (Signed)

Dr. E. Andrews states his opinion as follows:

Dear Doctor:—The object is a worthy one. Like everything else, the plan involves some difficulties. The fact of a powerful club being known to exist for defence, like an old sword, cuts two ways. It tends to prevent suits on the one hand, but if one comes actually to trial, it will prejudice the jury against the defendant, just as corporations do. Some of the members may not wish to use the attorney selected by the club, and as a matter of fact, such a body will rarely succeed in selecting the best man. I am not clear at this moment how these evils can be best obviated, but the whole matter will require very careful study and adjustment.

E. Andrews.

Dr. D. A. K. Steele, whose advice and assistance have been sought in several more recent suits, writes

Dear Doctor: - With proper restrictions and safement from the patient that he will be satisfied with guards I am decidedly in favor of a physicians' muthe result of an operation or treatment? The jury tual protective association. Physicians and surgeons strength, and a combined effort to resist an attack attend to all such cases. We do not believe that the upon the reputation or skill of a member by an asso-fact of membership in such a society would at all ciation of the profession would do much towards prejudice a jury, nor could it, as a matter of law, be lessening the frequency of malpractice suits. Most properly brought before a jury. (Signed) of these cases are taken by lawyers upon a contingent fee, and not infrequently urged upon the patient by the assurance that it will not cost him anything, and that the lawyer will give him half of whatever he recovers, or of the amount for which the unfortunate physician compromises rather than bear the expense and worry of a suit. If these shysters know that the physician is a member of a mutual protective association, morally and financially sustained by the general profession and defended by a first-class attorney who will fight the case from court to court, the contingent fee will seem so distant that these fellows will think twice before boldly walking into a doctor's office and demanding an immediate settlement or threatening a suit for malpractice. I would suggest the appointment of an Advisory Board, which in a quiet way should investigate every case in the very rare event of a member of the associa-tion being actually guilty of malpractice, he could physicians as witnesses. In that event such witnesses before official action is taken by the society, so that be advised to compromise his suit.

D. A. K. Steele.

Dr. Chas. Warrington Earle sends me the following letter:

Dear Doctor: - I am in receipt of your letter relative to your paper regarding blackmailing. I am of its members, but to defray the expenses; that is, heartily in spmpathy with the movement, although it may be necessary for us to steer clear of some legal fees. I would, therefore, suggest that in specifying

in the selection of members. There are some men in the profession who by their actions invite suits of fessional secrets and confidence reposed in the phymalpractice, and there are others who encourage suits sician by his patrons should be protected from being by their unwise conversations with the people. These made public in case it was sought in any manner to are the men whom we must seek to exclude.

(Signed) Chas. Warrington Earle.

Finally, I desire to submit a legal opinion on the principal objection raised by my correspondents, viz.: what effect a membership in such an Association would have on the jury.

Munn and Wheeler, the well-known criminal law- the trial of a case is concerned. yers, give the following opinion:

Dear Sir:-Referring to the matter of a physione in question might, by the payment of a small viz.: equality, harmony, justice and unity.

or actually bled, by blackmailers. In union there is amount yearly, each secure efficient legal talent to

MUNN & WHEELER, Counselors-at-Law.

Mr. O. H. Horton, of the firm of Horton, Hoyne and Saunders, one of the prominent lawyers of this city, gives the following opinion:

Dear Sir: - I see no reason why you may not legally organize and maintain a society of members of your profession for mutual benefit and protection, as suggested by you. The practical question has suggested itself to me of the effect of such an organization in court upon a jury, in case one of its members was being prosecuted. Strictly speaking, the fact that the defendant was a member of such a society would not be competent evidence. It would, however, doubtless get into the case, if the attorney for the prosecution desired to have it appear. In most, if not all, of the class of cases to which you could be asked if they were not members of such a society and therefore interested in the suit, etc. That would bring out all the facts as to there being such an organization. But, as I understand the matter from you, it is not the purpose to have the society pay any judgments, if any be recovered against one pay the costs of making a defense, including attorney the objects of the association, you should include It appears to me that the greatest trouble will be not only the protection of its members, but of their patrons and the public as well; that is, that the procompel the physician to reveal such confidential communications, etc. In other words, make the organization as much for the protection of the employers of the physicians as the physicians themselves. I think that that would remove all practical objection to the organization, so far as the effect in court upon

O. H. HORTON. (Signed)

This finishes the correspondence, which in itself is cians' protective society, the object of which shall so complete that I have nothing to add. I earnestly be the mutual protection and defense of its members request every gentleman present to night to state his in any suits which may be brought against them in a opinion, whether or no he is in favor of forming such professional capacity, we desire to say that in our an association as the one proposed. The time at my opinion such an organization would be an excellent disposal is very limited, but if I receive enough supone; that the idea is an idea embodying not only port to encourage the formation of a protective good common sense, but also the best business prin- union, I promise to do all in my power to make it a ciples and foresight. It is a well known fact that by success. I believe such an association to be entirely far the greater number of the suits brought against practicable, that it will be a power for good, that it physicians in their professional capacity are without can do us no harm, that it will draw us closer together any good foundation, being for the greater part mere as a profession, that it will be a great satisfaction to blackmailing schemes. The defense of such suits by one assailed by misfortune to have the sympathy and an individual is exceedingly burdensome and expensive. The members of such an organization as the will favor the principles of a common brotherhood.

## A CASE OF PROLONGED GESTATION. BY SAMUEL K. JACKSON, M.D.,

OF NORFOLK, VA.

In May, 1884, I was called to Mrs. T., æt. 30, who was suffering with severe dysmenorrhoea. She had not borne a living child for thirteen years, but had had several abortions, certainly two within the past four or five years, since the last of which she had menstruated regularly, but with increasing pain, as she reports, each month, until the period mentioned, when it became so violent as to require medical aid. Bridging over this attack with palliatives, I deferred an examination into its cause until after the menstrual flow had ceased, when I found almost an entire occlusion of the cervical canal, not so much from engorgement or hyperæmia, as the result of an inflaming attention more particularly to this during the had occasional premonitory pains. early part of the month, I delayed any attempt at sea-tangle just two days before the expected catamenial flow, with the effect of entirely preventing another attack of dysmenorrhea; and she has not ceased to menstruate since that time with ease and regularity.

But notwithstanding this want of interruption in the menses, she presented symptoms which during the following month of September rendered it probmonths before, possibly near to the July menstruation. During the month of October there was considerable abdominal enlargement, of about the shape of three months gestation. On the 22d of October she imagined that she "felt it," but in this she was evidently mistaken, as she discovered afterwards by very distinct sensations of "quickening" occurring when she was on a visit to Baltimore on the 9th of December. She had been threatened with abortion in October, and during the following month it was

with great difficulty prevented.

On her return from Baltimore towards the close of this month (December), a stethoscopic examination failed to discover the beating of the feetal heart, but this unmistakable sign presented itself on the next examination, during the early part of January, 1885. It was perceived again in the latter part of this month. Up to the time of this revelation there was considerable doubt as to the existence of pregnancy, several stance, there was no cessation of the menses, and there was no shortening of the cervix (nor was there suspected.

doubt, and she immediately set about preparations for the approaching accouchment, which was confidently expected about the 1st of May. The probability of its occurring at this time obliged me to relinquish the long-cherished purpose of attending the New Orleans meeting of the American Medical As-About the 1st of March her mother. who resided in Baltimore, importuned her to come home to be confined. A struggle between the desire to be with her parent and that to remain with her physician was quieted by my promising to go to Baltimore to attend her on the interesting occasion, and she left me early in April, with the expectation of seeing me in a month's time. Her letters to me from Baltimore evinced anxiety lest I should not get to her on time. As Tuesday, the 28th of April, was the earliest calculated upon, I reached her on the matory condition, which probably had existed for morning of that day. I found her very large and some time, and still existed to some extent. Devot- clumsy, and in honrly expectation, as she said she

Spending as much time with her as possible, 1 dilatation until the approach of the next menstrual could perceive no signs of approaching parturition; period. The dilatation was successfully, though with but on my visit on Thursday morning (April 30) she difficulty, effected by the introduction of a piece of told me that she had violent pains during the previous night, and begged me not to leave her again. To quiet her anxiety I remained at her mother's house, and after sleeping all night was surprised on

awaking that I had not been aroused.

As I was spending so much time to no purpose I insisted upon an examination, to determine what the prospect might be of the delivery coming on within a reasonable time. To my great surprise I found able that conception had taken place some two the same elongated cervix which had obscured the case from the beginning, and no signs by which I might calculate upon a delivery within a considerable time, and therefore I was reluctantly obliged to announce to her my determination to turn her over to another physician and return home. Her mother's family physician, Dr. Geo. R. Graham, was selected, to whom I gave a history of the case from the beginning, told him of my doubts and fears, and finally of the conditions which influenced my opinion, and left him in charge of the case. I was gratified to learn by a letter from Dr. G. that his diagnosis agreed with mine, and that he had been able to recognize the feetal heart; but subsequently, owing to the reluctance of the uterus to relieve itself of the burden, he very reasonably inferred that it must be an extrauterine pregnancy. From the accounts given me of the progress—or rather the want of progress—of the case, I also was inclined to entertain this fear.

The patient became so nervous and uneasy about of the most reliable signs being wanting. For in-her condition, increased by the importunity of friends, she concluded to consult a physician in Baltimore whose talents and experience have won for him a up to the finale of the case). But all doubt was re- high position in the profession. A partial examinamoved by recognizing the feetal heart, and as it was tion at his office inclined him to doubt the existence perceptible at this period it was evident that concep- of pregnancy and to suspect a tumor, but, as reporttion had occurred very near to the time it was first ed to me, he refrained from giving that as his opinion until he could be satisfied by a more thorough exam-These decided proofs, together with her own sen-ination, which was made by himself and a specialist sations and perception of the motions of the fœtus, in that department in the presence of Dr. Graham. had the effect of allaying much nervousness and anx- These gentlemen adhered to the opinion previously iety, which had existed through the long period of formed, and diagnosed that the abdominal enlargement was due not to a pregnancy, but to a fibro- not permitted to examine per speculum. I noticed cystic temor of the right ovary, and advised an op- that there was a decided change in the shape of the eration. From this opinion Dr. Graham dissented, abdoment, the enlargement having descended. The as will be seen by his letter to me of August 25, from patient declined to permit me to take active measa history of the case while the patient was under his antly obliged to again wait and watch.

Baltimore, Aug. 25, 1885.

DR. S. K. JACKSON:

against his. Having ventured my opinion, it is but ian tumor had grown so rapidly in eleven months, in me.

obtained from you, the rigid and elongated cervix. ion of the case and be kept informed of its progress. Retaining my fingers during the next pain I was sur- I have taken great interest in it. . . prised to feel something hard and apparently round pressed downward by the force of the contraction, which differed from anything I had ever felt under 136 Columbia Ave., Baltimore, Md. similar circumstances. I concluded that this was The patient refused to submit to an operation for counseled waiting.

which I give the following extracts in order to furnish ures to ascertain her true condition, so I was reluct-

Four weeks later the pains were again renewed but still milder. Her husband being in town he prevailed on her to consult Dr. ---, which she did. My Dear Sir:—In reply to your letter I will state On examining her at his office he pronounced it an that Dr. ---'s diagnosis was "Fibro-cystic tumor of ovarian tumor. Subsequently, at my request, and the right ovary." But I am not at all convinced that after hearing my statement, he reëxamined her, but he is right, though it may seem presumptious in me, did not change his opinion as at first expressed, alwith my limited experience, to pit my judgment though he could not cite an instance where an ovarfair that I should give reasons for the faith that is and then suddenly ceased growing, and become much diminished in size in the course of one month. On the day following my interview with you at my Such is not the history of ovarian tumors. I confess office (May t), I was called to see Mrs. T. and found there are many points which tend to confirm Dr. her suffering with what appeared to be severe and ----'s diagnosis, and also his vast experience must well-defined labor pains. I was informed that there be taken into consideration. But I will not be conwas a "show." The pains were regular, at intervals vinced that he is right until I have the evidence of a of about five minutes. I made a digital examination, competent witness who has seen the tumor after reand discovered what I expected from information moval. I would be much pleased to have your opin-

Very truly yours,

GEO. R. GRAHAM, M.D.

the body of the uterus, for I could outline the fundus fear she would not survive it, and determined to revery distinctly. I pronounced that the case was one turn home to Norfolk, which she did about the latter of extra-uterine conception, and that the child could part of July. Being summoned to her, I found her not be born by the natural means. My rash an-excessively depressed in spirits, and with her mind nouncement had the effect of causing a nervous at- made up that she had not long to live. Supposing tack, which culminated in a severe chill. This the Baltimore diagnosis correct, it was difficult for caused me to modify my statement and express a me to find for her one word of cheer, for I could hope that I might be mistaken, and I left her prom- only comfort her by endeavoring to assure her that it ising to make a thorough examination the next day, might be years before it destroyed life. She argued on which occasion I thought I made out the extrem- that it must be rapid, as it had already grown to its ities of the feetus lying in a transverse position in the present large size in so short a time. She imporabdominal cavity. I distinctly felt movements, tuned me to know if there was nothing to be done which, however, may have been caused by contraction of the abdominal muscles. By auscultation I was nothing upon which we could build any hope, am as sure as a man can be under the circumstances, but, in order to occupy her mind and feed her hope, that I could detect the feetal heart-sounds. I was I told her I intended to try the effects of electricity, strengthened in this belief by your statement that but before doing so, wished to make another examiyou also had heard the foetal heart. The pains were nation, as I had not made one since I left her in still present, but under the influence of the drugs Baltimore about the 1st of May. I was utterly surhad abated in frequency and severity. There was prised when this exploration revealed the presence considerable hamorrhage, but no mucus. By digital of a feetus. It was lying transversely across the abexamination I could make out the whole uterus, as domen, and so low as to force me to the opinion that I did the night before. Feeling that, as the case it must be outside of and in front of the uterus. The had gone to full term, I was justified in sounding the head and buttocks were certainly distinguished and uterus, I attempted to insert my speculum, but the located; and so positive was my diagnosis that I depatient exhibited such evidences of nervousness and clined to interfere with it and determined to let nadistress, I was obliged to desist from this crucial test tur take its course. Just at this time the journals until another opportunity, which unfortunately was brought me the report of Angus McDonald's case of never afforded me. The next day pain and harmor-impregnation of one horn of a bicornual uterus, and rhage had ceased. I gave a guarded opinion, and there were so many points of resemblance to this case, I thought it would be a comfort to her to read Four weeks later the pain and hæmorrhage were it and to learn of its fortunate result, and at the renewed, but not so severe. Palpation and digital same time to know that it was possible for even examination gave same results as before, but I was learned and experienced physicians to make mistakes its effects, for the next month (August) was spent in General Cameron, of the East India Army. A deep comparative freedom from anxiety. She would impound was made, but no pus obtained. There agine that she sometimes felt the motions of the was no shock resulting from the operation, and imfeetus, but this I doubted, for I had become impress- provement commenced at once. The swelling subed with the idea that it was either a case like Mc- sided, the temperature fell from 102 on the day of Donald's, though in a different position, or was ex- operation to normal on the third day. He had fully tra-uterine; in either case most probably not living, recovered in four weeks. as she was now certainly in her thirteenth and possibly her fourteenth month of pregnancy.

My surprise may be imagined when, on the 7th liver in Pepper's "System of Medicine." day of September, she gave birth to a living child, Hepatic Abscess, Opening through the Lung; Punc-

double that age.

(published in the New York Medical Abstract in tities of this pus—say one to two pints daily. ought to have been detected earlier.

ries necessary to clear them up.

140 Freemason St., Norfolk, Va.

## PUNCTURE OF THE LIVER FOR (1) HEPATIC IN-FLAMMATION, (2) ABSCESS, (3) HYDATIDS.

BY EDWARD HORNIBROOKE, M.D.,

OF CHEROKEE, IOWA.

Hepatic Inflammation-Puncture of Liver; Recovery.—Edward Roach, æt. 35, farmer. Family 8, 1885, I was consulted by H. Boylan, æt. 55, who history good. When he consulted me on July i, had been ill about one year, the most prominent 1876, he had all the symptoms of acute hepatitis. symptoms being severe attacks of colic, want of ap-He was treated in the usual manner for three weeks, petite, great enlargement of liver, and gradually when a red, hardened, tender swelling made its ap-failing strength. A swelling on right side extended pearance at the margin of the ribs. After poulticing below the umbilicus, was hard, no fluctuation could and using the usual remedies for two weeks without be detected, and the lower margin well defined. On alteration in the symptoms, it was decided, in con- the left side there was also a large protuberance and

in diagnosis. I found that I had not miscalculated puncture with a trocar, after the method of Surgeon-

No mention is made of this method of treatment in Bartholow's exhaustive article on diseases of the

not very large (eight pounds), but certainly old look- ture; Recovery. - Mrs. C. L. I., æt. 35, consulted me ing. The bones of the head were very hard, but September 20, 1885. She had been under the care fortunately well lapped at the sutures. It is to-day of other practitioners for eight weeks. She had the (November 30) just twelve weeks old, but it looks usual symptoms of hepatitis during the first four weeks of her illness. A swelling then appeared at I have given this full and, what may seem, prolix the lower border of the ribs, which was said to have history of this case on account of its anomalous been soft and fluctuating. About two weeks before character, being unlike any that had occurred in my my visit she coughed up about two pints of horribly experience, or of which I have seen any record. In offensive pus, when the swelling and tenderness sub-Angus McDonald's case, which has been mentioned sided. She continued to cough up enormous quan-May, 1885, page 168, from the *Edinburgh Medical* spite of treatment this continued without abatement *Journal*, April, 1885), the foetus went to full term till the 14th of October. Her strength was failing and probably a little beyond it (to ten months), after rapidly, and she and her friends became importunate which time it died in utero and was retained twelve to have something done to relieve her from the horrimonths longer without decomposition, and the same ble taste and distress of coughing up this material. mistake in diagnosis was made as in the case herein. On October 14 it was decided, in consultation with reported, which perhaps was more excusable, as the Drs. Sherman and Burlingame, of Cherokee, to aspirfeetus was not living, and had not been for twelve ate, with the largest needle, the lower part of the months. In my case the fœtus was living and car-right lung, where, from the dulness of the percussion ried at least four months beyond term. The only note and the other symptoms, we expected to find doubt that could be entertained by any one as to the pus. None was withdrawn, and we then introduced correctness of this calculation was as regards the the needle through the site of the original swelling. September diagnosis, of which, though I could not The needle was passed into the substance of the be positive at the time on account of the absence of liver in several directions. A few drops of pus mixed some reliable signs, the subsequent history furnishes with blood escaped, and the needle was found filled abundant proof. The quickening unquestionably with blood and pus. It had been explained to the occurred not later than December 9, just nine months patient and her friends that this would probably be before delivery; the heart-sounds were distinguished the result. The patient was under ether during the just eight months before that event, and probably operation, and no shock appeared to result. The quantity of pus decreased day by day subsequently, If I have left any points in this interesting case the temperature fell to normal, the appetite increased, at all obscure, I shall be glad to reply to any inqui- the odor of the sputa abated, and within a week she was convalescent. I saw this patient again on November 25. Her strength had increased, her appetite was good, and the amount expectorated was almost nil.

Does not the result of these two cases go to show that puncture of an inflamed liver sets up a new action and is directly curative in its effects, as had been argued, and I think proved by Surgeon-General Cameron?

Hydatids of Liver; Puncture; Death.—On June sultation with Dr. Stoner, of Stratford, Ontario, to well-marked sulcus and softness in the epigastrium.

treatment.

inent part, just to the right and a little above the turbinated bones, where virtually exists the disease umbilicus. No serum or pus was found, and as the denominated catarrh. In my practice, I have had, patient was very weak and not under an anæsthetic numbers of cases under observation which I have de-I did not explore the liver so fully as I desired. No nominated "smoker's throats," implicating the posterior pain or ill effects were experienced from the punc-fauces, palatine arches and walls, the uvula, the ture. He rallied for a few days and died suddenly turbinate bones, the Eustachian ducts and the epion August 26.

line, filling the left hypochondrium and pressing air is far greater than the outlet at the posterior against the spleen, which was of normal size and nares, due to an hypertrophied condition of the turconsistence. The stomach was behind the liver, binate ossific vaults. The excoriation undergoing middle. We could find no trace of the puncture ductus ad nasum. which had been previously made. The margin, especially near the epigastrium on the right side, was vocative, those extraneous to direct exposure, such hard, the inferior surface concave. The whole of as passing from heated to cold atmospheres, also the lower surface of the liver was studded with whit- after becoming superheated, then removing surplus ish, slightly yellowish, flattened vesicles (hydatid), clothing and having the action of the skin suddenly filled with a whitish fluid. Several hydatid cysts as checked. Dusty atmospheres, especially, caused by large as a coffee cup were found in the substance of rolling cotton bales, rice or coffee mills, lime-kilns, the liver, filled with a fluid similar in appearance to shell roads, pikes, flouring mills, mop factories, enthat found in ascites. The gall-bladder contained closed saw-mills, grain elevators, and ship-holds when bile and we observed no obstruction to the duct.

Cherokee, Dec. 10, 1885.

# CORYZA, ITS CAUSES AND TREATMENT.

BY GEO. N. MONETTE, M.D.,

OF NEW ORLEANS,

This affection has hitherto been regarded as a disease of comparatively minor importance; yet, latterly, the nasal canal, and inducing really a form of acute owing to advances and improvements made in the osteitis, or hypertrophy of the turbinate bones, which modern method of treating processes, as well as the sometimes exfoliates and suppurates, and chronic extravagant dissipation of the majority of the laity, ozena results. as also the subsequent effect upon a constitution improperly developed physically, not being inured to and having given, to some degree, the pathology of the transitions of temperature by suitable clothing, this annoying complication, the treatment is next of we find that the disease prevails almost universally, vital importance. Nasal douches without number becoming more prevalent in warm latitudes, where have been directed against this anatomically delicate hitherto, it was seldom prevalent. There has been, canal, and with detriment ultimately. Such are not quite justifiably, an impression among the body politic, that a cold in the head (which is a decided mistic, that a cold in nomer) was nothing in entity, but could be readily to speak) with any medicament; and furthermore, relieved, and permanently.

malady, extraneous to hereditary influences, 1 am subsequent engorgement. Vile irritant snuff comconstrained to accredit the habit of smoking, as being pounds have been sold, and with no benefit. Unthe source of the majority of the most aggravated scientific appliances have been manufactured, and cases. So many of the younger men mistake their recommended for use, directing the same upward nasal appendage for *smoke stacks*, that they essentially instead of *horizontally*, to reach the imaginary locality become victims to the relaxation subsequent to the of the disease.

The swelling on the left side was supposed to be the stimulant influence of a steady stream of hot smoke No improvement resulted from medical through the nasal passages. This relaxation ultimates in a species of hypertrophy of the Schneiderian On July 9, I punctured the liver in its most prome mucous membrane, and of the continuity of the glottis and trachea. The mucous surfaces were ex-Autopsy eight hours after death, present Drs. Sher- coriated almost literally, the catarrhal phenomena man, Quirk, Meyers and Hornibrooke. Heart and were typically troublesome, and provoked an insatialungs normal. The friends had stipulated that the ble desire to clear the windpipe; and owing to a head should not be opened. The abdominal cavity decided narrowing of the canal (nasal), induced a contained a small quantity of serum. The liver exform of dysphaea, which has been denominated nasal tended as low as the umbilicus and across the median asthma. The ingress of the volumetric pressure of which seemed hollowed out to receive it, and with cicatricial restitution ultimates in a pachydermatous the sulcus in front, gave the two parts somewhat the condition, compromising the normal nasal secretions, appearance of the old-time physician's saddle bags; as also stillicidium, which indicates a fulness or heavy and large at both ends and slender in the thickened condition of the membrane, closing the

Atmospheric influences are most proverbially probeing loaded with cotton or bulk grain. Our shelled levee, with the slightest breeze, envelopes everything in a dense cloud. All sorts of particles wafted promiscuously are potent irritants, first by such a quantity being inhaled and deposited upon the mucous surface, causes an acute secretion, and by a continuance or repeated attacks similarly entail a chronic exudative rhinitis, which ultimates in an ædematous condition of the membrane, and finally implicating

Having enumerated various causes of this malady. the forcible contact of the steady stream serves to Among the many features provocative of this enervate and ultimately to relax completely, from the My formula is

R. Bismuth subnit. 5j. Iodoformi. 5j. M. and pulv. Sig.—Locally.

This has never failed to relieve any ease coming under my observation.

### MEDICAL PROGRESS.

THE SURGICAL, PHYSIOLOGICAL AND . ESTHETIC Advantages of the Artificial Vitreous Body.— DR. P. H. MULES read a paper on this subject at the a spoom to evacuate contents (Bunge, of Halle, has delast meeting of the British Medical Association. Sympathetic ophthalmia, or disease of a sound eye, well); 8, needles threaded with chromicised catgut caused by injury to its fellow, was brought to the (fine size); 9, artificial vitreous bodies in assorted notice of the profession by Mackenzie, of Glasgow sizes; 10, dressings; namely, iodoform, wood-wool (On Diseases of the Eye, 1840). He referred to it as pads in Lister's gauze, oiled silk, glycerine, boracic well known to his colleagues and himself, and, as the or sublimated bandages. name implies, attributed it to nerve-sympathy, or in modern terms, a "reflex neurosis." This theory held part, complete in itself, is evisceration. It is congeneral acceptance until a very late period; and even ducted as follows: 1. Anæsthetise the patient. 2. now there are many believers in the sympathetic Use the hand-spray, and thoroughly cleanse and disorigin of the disease. Be that as it may, a school has infect the appendages with 1 to 1,000 solution of corarisen which refers the disease to "bacteria" having rosive sublimate. 3. Transfix and remove the front its first point of localisation in the uveal tissue, of the eye with a Gräfe's knife at the corneo-scleral there producing a specific uveitis with germs, "bac-margin, cutting round the conjunctiva first. 4. Empty terioid bodies," capable of self-propulsion along the the contents of the globe in any way that is conperineural lymph-spaces of the first affected eye, venient, taking special care to remove the ciliary across the chiasma, and down the lymph-spaces of body and choroid, leaving a clean white sclera. 5. the sound eye, reproducing a similar affection, often With a thin India-rubber tube (Inst. 2), used siphonwith disastrous results. Holding this view, I designed, wise, run the sublimate solution into the emptied for the prevention of sympathetic disease, or, as we globe; during the performance of the operation, it now term it, "secondary septic ophthalmitis," the opwill help to arrest bleeding. 6. Select the needles, eration of "evisceration of the globe," on the lines slightly curved, for sewing up, and threaded with gut.

upon a secure basis by Dr. Gräfe, of Halle, and my sought for, and especially in children, for reasons self during the year 1884, working independently of hereafter stated, we advance another stage, and beeach other. To our illustrious countryman, Sir Joseph fore sewing up the sclera. 7. Take the glass sphere which alone makes this operation feasible. Perfect the sphere will with difficulty enter the cavity. This faith in the bacterial origin of this affection led me to difficulty only refers to introducing the globe; when the steps hereinafter named; for it was not enough it is in, the sclera should unite easily without any to eviscerate the intra-ocular contents, and leave only tension, and leave no awkward angles; therefore the

I greatly prefer the inhalation treatment, either a small button of sclera on which to plant an artificial by evaporated medicines, or by the insufflation of eye (immeasurably superior as it is to the operation some emollient substances. Astringents, strictly of enucleation); and, following out the logical vegetable, are not indicated for permanent use. I sequence, that total exemption from the dangers of have found submitrate of bismuth to be the most sympathetic disease being assured by early removal soothing, and absorbing the profuse nasal secre- of all the uvea, the introduction of a permanent hollow tion relieves the irritable mucous membrane, when glass sphere within the denuded sclera could produce the defluxion is offensive; then a small quantity no ill effects, the result has fully realised the most of iodoform combined with it deodorizes the dis- sanguine expectations. To attain this end, the folcharge, which is removed by hawking. The bismuth lowing steps carried out with a scrupulous attention deodorizes the iodoform, and its peculiar odor is not to detail, are necessary. Any eye may be eviscerated, perceptible after a short while. My plan is to clear except such as are infected with tubercle, glioma, the canal, and inhale my powder only at night, retir-ing as much as will remain upon the end of a match. when painful, can be opened, cleansed, bone or foreign bodies removed, and the pain and uneasiness disappear, leaving a smaller stump, but safe from danger to the sound eye, except in those instances where bacterioid bodies have travelled beyond the globe. Even then it is a fair assumption that no more harm could possible accrue than if the stump was enucleated.

> The instruments necessary for the due performance of the operations are: 1, a hand-spray; 2, a siphontube of India rubber to flood the eye after or during operation; 3, an ample supply of solution of corrosive sublimate (1 to 1,000); 4, an eye speculum; 5, fixing and dressing forceps, two pairs; 6, a Gräfe's knife; 7, vised an instrument, but any scoop answers equally

The operation is divided into two parts. The first hereinafter laid down, to be associated in suitable And here, if we please, we may leave the patient, cases with the use of the "artificial vitreous body."

It is right here to state that the operation of "evisceration" has been occasionally practised by surgeons tional circumstances, and that he will possess a movagas an emergency-treatment, but the perfecting thereof, and the rules for its safe performance, were placed at the control of the perfect as the control of the perfect as the control of the perfect as the control of the place of the property of the perfect as Lister, we are indebted for the antiseptic treatment best suited to the case, slit the sclera vertically, until

largest sphere fulfilling these conditions is the best; finally sew up carefully with strong chromicised cat gut, taking care to get the scleral edges into apposition. Five stitches are generally sufficient. Lastly, common draw conjunctiva over, and unite at right angle to the scleral wound. 8. Spread a thick layer of finely powdered iodoform over the whole conjunctiva, and dress with salicylic-wool in a double layer of Lister's gauze.

9. Keep the patient in bed for three days, and dress with hand spray, till all risk of septic trouble has passed over:

6. The a terribody carefully sufficient. Lastly, common to be gat supplied to the school of the control of the properties of the proper

Should you succeed in keeping the wound aseptic, the reaction is comparatively trivial; if suppuration ensue, the pain and distress may be severe, the orbit becoming infiltrated, and the sclera may slough away. I cannot lay too much stress upon perfect asepticity The operation should never be performed without full precautions for its attainment; in any case, it is well to warn the patient that he may have pain in and

around the orbit for a week.

Union is in most cases rapid. A firm round globe results, retaining all the associated movements ad maximum and capable of carrying an artificial eye which, when carefully centred and moulded, absolutely defies detection. The stump is insensitive to manipulation, so that it seems impossible that irrita-

tation can be set up.

In selecting eyes for an artificial vitreous body, it is obvious that shrunken globes must be passed over, as also those in which the conjunctiva is in a sloughy condition, as after burns, or destruction of the eye from gonorrheal ophthalmia; but when the eye is of fair size, and the conjunctiva healthy, however diseased the contents of the globe, and especially in extensive fresh wounds, where primary enucleation is the alternative, the artificial vitreous body can be advantageously used. Below is a table comparing the operation with that of enucleation.

ENUCLEATION.

EVISCERATION AND ARTI-FICIAL VITREOUS,

 Complete removal of globe and its contents.

2. Displacement of all muscular relations and arrest of movement.

3. Cicatricial bands are a frequent accompaniment of emcleation. The introduction of an artificial eye is thus rendered very difficult, and secondary operations necessitated.

4. Contractions, specially towards the orbital apex, occur, making new eyes a necessity, and preventing all chance of a good fit. So, also, the sinking of the glass eye and distortion of the lids is constant.

5. The lower sulcus of the conjunctiva being constantly pressed upon by the lower edge of the glasseye—which, indeed, rests upon it—rough granulation, ulcerations, and thickening occur, which necesstate non-wearing of the eye for lengthened periods, and may induce sympathetic irritation of the sound eye.

- I. Retention of the frame-
- work of the cye.
  2. Perfect harmony of mus-
- cular movements retained.
- 3. No bands ever occur after evisceration, unless through burns or other destructive agencies of a similar nature.

4. A definite size of globe being introduced, no change ever occurs after the parts have quieted down, in from six weeks to two months; nor can there be either sinking of eye or distortion of lids.

5. The grave mischance, mentioned in Enucleation 5, cannot exist with the artificial vitreous body, as the concavity of the artificial eye, being kept closely applied to the convex globe by the lids and atmospheric pressure, is lifted up and rarely touches the inferior sulers.

6. The removal of an eye is a terrible operation to the mind of the patient, more especially as ill-fitting glass eyes are so common that there is no solace to be gained from their contemplation, many promising lives having been wrecked through the shrinking from publicity caused by the self-consciousness of an ill-fitting glass eye.

7. Arrested development of the orbit in young children.

o mental, bodily, and social sections of the wearer.

6. An artificial eye which

defies detection must exercise

an important influence over the

 Orbital development is successfully encouraged to continue.

There can be no doubt that, if only a portion of these benefits can be conferred, the operation above described should be unhesitatingly adopted. weigh against it, we have: 1, an operation requiring care, dexterity, and careful attention to detail; 2, careful dressings, and more personal supervision from the surgeon; 3, a longer convalescence and a longer time before the artificial eye can be used (the artificial eye should be used for two months); 4, it may be urged that we have no guarantee that the success will be permanent; time will show. The first case shown at the Ophthalmological Society in March, 1885, has used an artificial eye for eleven months; the result, so far, is perfect. A second has used it eight months; I have not seen him since, but know he is well, and others of late date.

Let me again point out that, in young children, enucleation is followed by arrested development of the orbit. This is an interesting physiological fact. the importance of which cosmetically cannot be overrated. It is allowed by most competant observers that the introduction of the artificial vitreous body will encourage the normal growth of the orbit, and assist to maintain symmetry of feature. The advantage of the operation is again manifest when I tell you that it may be undertaken at any age from 3 months to 70 years, with equal facility and absence of risk. Lastly, I look forward to the placing of the pathology of sympathetic disease upon a basis absolutely incontrovertible through the medium of this operation; for I submit that, should we succeed in preventing secondary inflammatory attacks of the sound eye, we shall have reduced the bacterial origin of sympathetic disease to a demonstration.

The correct fitting of an artificial eye being a point of the highest importance, it behooves the surgeon to see for himself and unhesitatingly reject such as do not fit accurately, and the movements of which are not free in every direction; otherwise the irritation caused by the pressure of an opposing edge, will destroy the benefit likely to accrue to the patient from the original operation.—*British Medical Journal*,

Dec. 19, 1885.

Partial. Dislocation of the Head of the Radies pectuar to Children.—In the Journal of January 23, p. 94, was given an abstract of a short paper by Mr. S. H. Lindeman, in the *British Medical Journal*, of Dec. 5. Mr. J. Hutchinson, Jr., has a note on the same subject in the *British Medical Journal*, of Jan. 2, 1886, in which he says that the

best way of regarding this accident is to remember. The frequency of this accident may be judged that the orbicular ligament, which in adults strongly from the fact that, at the London Hospital, two pergrasps the bony head of the radius, in young children fectly typical cases have often been seen on the same has a weaker hold on the same part, which with them day. Whereas formerly they were liable to cause is cartilaginous. The nucleus for the head of the doubt and were unsatisfactory to deal with, their radius does not appear until the age of 5, and this nature and the method of reduction are now fully eslimits pretty accurately the time up to which the tablished. A few examples may be quoted from Mr. lesion is commonly met with. In fact, I could not Lucy's and my own notes. produce it upon the bodies of children much older than this. During traction on the hand, combined arm semiprone and motionless, crying with pain on supination, as for instance, when the child is dragged passive movement. The mother had pulled the child along or lifted by the arm, the ligament is very hable up by the hand, the forearm being semipronated and to slip up. Its attachment to the neck of the radius fully extended, an hour before. On full pronation (only a thin membrane, which I have ventured to and flexion a click was felt, and the symptoms disapname the sub-orbicular) may be at the same time peared. There was certainly no lesion at the wrist. torn through, though this probably does not happen in a large proportion of the cases. Thus the bone the floor by the hand. The child, a fat heavy one, slips a very little downwards, and a very little forcied, let its arm hang, and couldn't hold anything wards. Mr. Lindeman thinks it may reach the debe accompanied by marked deformity, which is, on crying, and easy movements of the radius followed. the other hand, conspicuous by its absence. If it were not so, the true nature of the accident would, forearm bent and semipronated. One movement of not have been so long overlooked, and the lesion flexion and pronation caused a click to be heard, and ascribed to a displacement of the fibro-cartilage at the child actively resisted any further manipulation. the wrist, etc. (see Tillaux's Anatomie Topographique, 4. A young child was diagnosed to have "an injury p. 549, and also M. Goyrand's work). Mr. Lucy to the head of the radius," and its arm was bandaged has observed and kept notes for me of a number of to the side. During the next two or three days, she cases at the London Hospital, and we can unhesitat-continually complained of pain in the elbow. On ingly affirm that the deformity at the elbow would be her second visit, I fully flexed and pronated the foreoverlooked by anyone, even if acquainted with the arm; the usual click was heard, and after that the real nature of the lesion. In fact, although a true pain and resistance on movement disappeared. dislocation, it is rather one of the ligament than of the bone. It is perhaps possible, by "strongly supinating and pressing on the head of the radius," to ing of the Medico-Chirurgical Society of St. Louis, reduce the displacement; but, in my paper, an easier on November 17, 1885, Dr. Steele exhibited an apand a surer way is described.

at the same time, gently but fully pronate the forearm. treatment. The apparatus consists of a rectangular By this method, if the case be one of the class de-frame of flat iron which should be five or six inches scribed, the ligament will infallibly descend to its longer than the patient, and a trifle wider than the right place, again grasping the head of the radius. distance from acromion to acromion. This is cov-The descent is known by the audible click (Mr. ered with canvas or stout cotton cloth laced tight Lindeman's "thud" hardly expresses it) which then upon the frame, an opening being left at the centre, occurs, and by the relief of the symptoms although corresponding to the nates, for convenience in atthe child is sometimes too young to reveal the latter; tending to the wants of the patient. Some time ago but the surgeon may feel sure, on hearing the click, he exhibited to the Society a portable splint for the that the displacement is reduced. Mr. Lindeman treatment of hip-joint disease in the later stages. says that it is very liable to recur; I think this is due The chief elements in the treatment of these inflamto his method (supination and pressure) not always mations is rest. In hip-joint disease we have an ineffecting complete reduction. We have, with refer-flammation, and the therapeutic agent that would ence to this point, charged the mothers to bring the first suggest itself as most natural would be to keep child back if the symptoms recurred, and in no case the parts perfectly quiet. This is a very simple thing have they done so. No splint is absolutely necessary, in theory, but there is some practical difficulty in although it is certainly well to keep the part at rest carrying it out. This splint is made in such a manfor a time.

head of the radius. That part of it opposed to the is moved about, inflammation may be excited. In curve of the orbicular ligament, in full supination, the earlier stage of hip-joint disease and in the very flexion of the forearm.

1. Sarah M., aged 21/2, was admitted with left fore-

2. John B., aged 2 years, had been dragged from pression above the capitellum; this would, of course, ion and pronation produced a click; the child ceased

3. May F., aged 1 year, was admitted with her

APPARATUS FOR HIP-JOINT DISEASE.—At the meetparatus for hip-joint disease in the earlier stage and Gently flex to a right angle, or a little beyond that; placed a patient upon it to illustrate his method of ner that the patient can be carried about upon it. The reason why pronation and flexion succeed so The great objection to most splints is that they allow readily, is probably to be found in the shape of the more or less motion in the joint, and, if the patient has a rectangular edge, whilst in pronation it is young it is better to confine the patient on his back rounded off and less deep; hence the ligament easily by using this splint. This apparatus he had presentslips over the latter edge when brought up to it by ed to another society on a different occasion, but it had never been exhibited in St. Louis before. The

had given complete satisfaction.

entire limb.

paratus. He uses a piece of tubing at the foot and with chloroform."—Medical Record, Jan. 23, 1886. makes an elastic extension which he thinks possesses some advantages. One patient from Fort Worth, Texas, started home a day or two after the apparatus | CHILDREN IN THEIR RELATION TO TUBERCULOSIS.-Courser of Medicine, January, 1886.

marked swelling of the neighboring mucous mem-question naturally arose, then, as to whether the mon use is accompanied with pain, often of great which resemble tuberculosis, both clinically and as severity, and is often followed by copious hæmorthage. The swelling offers, of course, a serious ob- of scrofula and the results which were obtained varied. which has increased in size from the imbibition of others only occasionally or not at all. In lupus the

patient lies upon this apparatus and there are shoul- water becomes all the more firmly impacted. Hence, der straps which pass over the shoulder and prevent in attempting the removal of the body, more or less the patient from raising the trunk. Perineal straps, laceration of the membrane is likely to occur. The attached above to a steel arm springing over from pain, with difficulty tolerated by an adult, causes a the side of the splint and fastened below to the can-child to become in almost every instance unmanagevas, afford counter-extension. A little steel upright able, so that an anæsthetic is required. The hæmat the foot of the splint affords means of attachment orrhage is usually controllable after the lapse of a for adhesive straps making extension. Two little re- few minutes, but may, meanwhile, cause considerable movable arms or legs can be attached to the appara- annoyance. From our knowledge of the physiologtus to raise the patient. This can be done by the ical action of cocaine upon the nasal mucous mem-attendant or nurse so that the bed-pan can be placed brane, it is evident that, by its use in these cases, all underneath. The use of this appliance for two years of the above difficulties may be overcome; for applied to the nose, the mucous membrane becomes At the only hospital in which hip-joint disease is strongly retracted, the sensibility to pain lost, and exclusively treated—the one in London of Mr. How- the blood-vessels exsanguinated. Thus, the calibre ard Marsh-he confines his patients by straps to the of the fossa is greatly widened, the irritation and bed. He uses adhesive plasters attached to a weight, consequent resistance done away with, hæmorrhage for extension, and elevates the foot of the bed for prevented, and the removal of the foreign body therecounter-extension. His results are not most prom- by greatly facilitated. To carry out the method, the ising, Dr, Steele thinks because he does not thor- occluded nostril should first be cleansed with a spray oughly immobilize the joint. He allows the part to or a gentle current of some luke-warm alkaline solution, after which a four per cent. solution of cocaine paratus a little patient was brought in and the mode should be applied to the mucous membrane. When of application was shown. It was shown that by its effect has become complete, the extrusion of the placing him upon this stretcher-splint and making body should be attempted by directing the patient the attachments, he could be carried anywhere. The to blow forcibly through the affected nostril. Fail-apparatus serves as a stretcher, and at the same time ing in this, it should be drawn out by some suitable it acts as a splint. Both arms, the head, and one instrument. Should the patient be too restless to lower limb are left free, so that he can play with his make this practicable, an anæsthetic may still be adtoys, and children soon become quite contented. ministered. In cases of invasion of the frontal sinus Mothers sometimes say it would be better for chil- or antrum of Highmore by insects or larvæ, cocaine dren to die than to be confined in this way, but they should be applied to the membrane before the adare very well satisfied with this confinement. Ex- ministration of chloroform or ether, in order that the tension is to be made not only upon the leg, as this canals leading to these cavities may become as patmay cause trouble in the knee-joint, but upon the ent as possible, and thus the vapor of the anæsthetic be admitted very thoroughly to the intruder's pres-Dr. Prewitt said that he was indebted to Dr. ence. The insensitiveness of the membrane pro-Steele for this suggestion, and for something like two duced by the cocaine will, in these cases, certainly years had been using it and had been greatly pleased add to the comfort of the sufferer should it be newith the results. He thinks it is an admirable ap- cessary to inject, or still better, to spray the nose

SUBCUTANEOUS COLD ABSCESSES IN SCROFULOUS was applied, and letters since received speak of the GIESLER has an article on this subject in the fahrbuch rapidity of the progress of the case and the speedy für Kinderheilk., Bd. xxiii., Hft. 1 and 2. Koch's recovery of the patient. He had used this appara-investigations showed that tubercular disease, wheretus in every case which had presented itself within ever located, depended for its cause upon the pres-the last two years since Dr. Steele called his atten-ence of the spore bacillus tuberculosis, this being the tion to it, in fifteen or twenty, at least.—St. Louis evidence, when found, of the tuberculous character of the complaint, and its absence equally showing a non-tuberculous character. The same disease is like-NEW METHOD OF REMOVING FOREIGN BODIES wise producable in animals by inoculation with culti-FROM THE NOSE. - DR. D. BRYSON DELAVAN, of New vations of this spore. It is also affirmed that all York, thus describes his method of removing foreign inflammations in which the spore is found, or the bodies from the nose: "The presence of a foreign products of which cause bacillar tuberculosis in anibody in the nasal cavity is usually attended with mals, are equally of a tuberculous nature. The brane. Its extraction by any of the means in com-tubercle bacillus was to be found in those diseases stacle to the extrusion of a hard body, while one some investigators finding tubercle bacilli in all cases,

testimony is unequivocal as to its tuberculous character. In scrofulous eczema no bacilli have been Blumberg, of Baku, says that at present thoracofound in almost all reported cases. In the class of centesis is used only for the relief of serous pleuritic cases which is under discussion, namely, subcutaneous effusions, to prevent access of air; and free incision cold abscesses in scrofulous children, investigation of, permitting air to enter, is in use for empyema. was first made with the microscope, but after a large number of examinations, with most powerful lenses and very careful search, only a single bacillus was found. Seven cases were then selected, and, with material which was obtained from them, inoculation was practiced upon guinea-pigs and puppies, both by subcutaneous and intra-peritoneal application. In all cases only negative results were obtained, and the conclusion was reached that abscesses of this character, of circumscribed development, and developing from granulation tissue, do not depend upon bacillar tuberculosis, although they may contain giant cells and other lymphoid formations, from which it used to be thought that they were of tuberculous origin. They are manifestations of scrofula but not of tuberculosis.—Archives of Pediatrics, January, 1886.

LACERATION OF THE OS AND CERVIX UTERI, AND THE OPERATION OF TRACHELORRHAPHY.—The following is the summary of a lecture recently delivered by Dr. Graily Hewitt on this subject.

The operation is indicated by the presence of considerable hypertrophy of the os, the result of laceration and the more so if hypertrophy and eversion be conjoined; by the presence of chronic severe local pain, evidently traceable to the irritation of a raw surface less extensive in amount, or traceable to cicatricial hardening at the bottom of the fissure; by the association of marked laceration with a troublesome displacement of the body of the uterus; by the presence of a severe recent laceration, even in cases where no severe symptoms have had time to develop themselves, with the view of preventing (1) cellulitis; (2) the occurrence of cancer; (3) the supervention of symptoms generally; lastly, by the presence of general severe prostration, inability for locomotion, etc., obviously traceable to laceration.

The operation itself is not, in most cases, a difficult one, but, in some cases it is so. In assisting to hold the cervix down, I have found the large tenaculum hooked forceps, depicted in the last edition of my work on Diseases of Women, made by Mayer and Meltzer, of very great utility. Some times the nodular hypertrophy renders co-aptation of the edges, after paring them, not easy, owing to one side of the rent being very short, the other very long. Another difficulty is, in some cases, the excessive hardness of the tissues to be perforated by the needle, which is sometimes so great that much force is required to penetrate the tissues. The needles need to be very strong for such cases. I have found No 6 silverware most suitable for sutures, and have generally removed them in not less than ten days. Probably it would be better to leave them a week or two longer, in cases where the patient is very weak and nutritive the powder into the uterus by means of a very fine action feeble. The importance of a preparatory catheter. The applications were renewed twice a treatment before proceeding to the operation has week, and with excellent results. The catarrhal already been pointed out.—British Medical Journal, hypersecretion diminished or ceased immediately in January 2, 1886.

On Thoraco-centesis for Empyema.—Dr. Paul The author calls attention to the disadvantages of the latter operation: (1.) The patient is subject to offensive wettings with pus and blood, and therefore exposed to colds and skin-eruptions; (2.) The possibility of occasioning hæmorrhage by wounding the intercostal artery is a source of anxiety to the surgeon; (3.) The operation is of longer duration and of greater painfulness than is necessary.

On the other hand, however, paracentesis without admitting the air is not advisable (1) because it would have to be daily repeated, (2) because all the pus could not be completely evacuated and (3) because the pus must have continual escape to avoid putrefactive stagnation. The author therefore recommends the use of a silver canula one and one-eighth inch in length and of one-sixteenth inch calibre, large enough to admit a double current catheter, and furnished with a plate resembling a tracheotomy canula; this to be introduced with the help of a suitable stylet into the sixth intercostal space and left to remain for three weeks, the cavity being washed out daily with a 2 per cent. carbolic solution. A rubber tube is attached leading to a basin beside the bed, to carry off the discharge. In fact the author recommends the use of his canula in all cases of effusion; and if they prove serous in character, it may be again extracted. He gives two cases.-Deutsch. Zeitschr. f. Chirurg., October 6, 1885.—Annals of Surgery, January, 1886.

BLOTTING-PAPER AS AN ANTISEPTIC DRESSING.— Dr. Bedow, in a recent paper on antiseptic dressings suitable for military purposes, said that the requisites were that any dressing to be used on the field of battle must be simple, occupying but small space, inexpensive, and capable of being used for all surgical necessities. He believes that he has found a substance which combines in itself all these requisite qualities blotting or filtering-paper. Before being used for surgical purposes, it should be disinfected by a lengthened exposure to a heat of 120° Cent., and by immersion in an antiseptic solution, and afterwards dried. Wounds are dressed by the application of seven or eight layers of this paper, the whole being covered with gutta-percha tissue, and a bandage applied. The dressing weighs only about 40 grammes, so that each soldier can carry one. In the ambulance, this dressing can be applied by the surgeon with any others that it is thought well to employ.-British Medical Journal, January 2, 1886.

IODOFORM IN UTERINE CATARRH.—KUGELMANN, having noticed that iodoform very promptly cures coryza and laryngitis, concluded that it would be beneficial in cases of uterine catarrh. He introduced every case. - Gazette Med. de Paris, No. 52, 1885.

THE

## Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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CHICAGO, ILLINDIS.

### SATURDAY, JANUARY 30, 1886.

### ELEMENTS OF PROGNOSIS IN BRIGHT'S DISEASE.

published a very interesting article on this subject by ing "popular." PROFESSOR AUSTIN FLINT, of New York. The paper tant points presented.

the fact that this belief "reflects the views of the branch of the subject upon a future occasion. medical profession "-and he adds, "this view of the

The great difficulty about it is simply this,—a diagnosis is not reached until the kidneys are hopelessly damaged. And herein lies a grave charge of remissness against a large majority of us; patients are constantly treated for "dyspepsia," "biliousness," "headache," "spinal irritation," and a dozen other imaginary evils, when boiling a little of the patient's urine would clear up all doubts, and light the way to rational treatment. We are not making an exaggerated statement when we say that fifty per cent. of the victims of Bright's disease are in a greater degree the victims of a tardy diagnosis. And the very fact that this disease steals upon us like a thief in the night, almost without appreciable symptoms, ought to double our efforts to detect its very incipiency. When the test-tube is used as commonly as the stethoscope, deaths from chronic nephritis will steadily diminish. But when a physician firmly believes that a disease is incurable, he is not likely to put forth any very brilliant efforts in attempting to cure it-And when our most prominent teachers pronounce a In the issue of The Journal of January 9 we disease incurable, the doctrine is in danger of becom-

Prof. Flint mentions the well-known difficulty of is both valuable and timely, although far from being determining whether a given case of acute nephritis exhaustive. It was prepared for the purpose of is really acute primarily, or an acute explosion occur-"leading" a discussion of this important subject ring in course of a chronic case. And this leads us before the New York County Medical Association, to make an assertion which will doubtless call forth a and its author was obliged to compress his paper to most hearty dissent from at least nine-tenths of the the limits allowed by the time and place. But Prof. profession, namely: that there are, comparatively, Flint presents some excellent thoughts in this brief very few cases of primary idiopathic acute nephritis, paper, which ought to be urged upon the profession but that the apparently acute cases, except the scarboth frequently and persistently. We propose to in- latinal form, are preceded by a chronic lesion, posdicate and comment upon some of the more impor-sibly very slight indeed, but nevertheless real and appreciable. This conclusion is based upon facts Prof. Flint first mentions the popular belief that and arguments which we cannot state within our chronic Bright's disease is always incurable, and to present limits, but it is our purpose to present this

In the paper under consideration Prof. Flint does prognosis is not far from the truth." With this most a real service to pathology and therapeutics, as well discouraging view we cannot agree, and we regret as to prognostics, in broadly recognizing "sub-acute that it should emanate from so high a source. It is nephritis" as an idiopathic form of disease, and, as indeed unfortunately true that the great majority of he well says, these cases "have not received suffithe cases of chronic Bright's disease—or, as Grainger cient attention by medical writers." Of late years, Stewart so aptly puts it, "Bright's diseases"—end it has become quite too much the fashion to drop fatally, but this fact does not prove that it need be sub-acute inflammations out of our calculations alor ought to be so. It is not creditable to our profession that every case of chronic Bright's disease is and there is no halfway work about it according to abandoned as hopelessly incurable. Such is not the our present incisive pathology. Yet it is a clinical case. A fair proportion of the cases of chronic fact, that cases are constantly occurring, of renal and parenchymatous nephritis are certainly amenable to other inflammations, which occupy a middle ground treatment and to cure. Nor is chronic interstitial and are truly sub-acute. And this fact is a most imnephritis by any means necessarily a fatal disease. portant one in its relations to prognosis and thera-

peutics. "Sub-acute" has a much more encouraging a process of disease, or to a process of recovery. and hopeful sound, from a therapeutic standpoint, Progress may be so slow, in either direction, that a than "chronic." He schedules, it will be remem- green old age may be reached before death or recovbered, the "elements of prognosis" in cases of ery takes place; but there is progress, activity and chronic Bright's disease as follows:

"First: the kidneys must not be damaged beyond a certain extent," and inasmuch as one kidney is opinion, the author entirely omits one important faccapable of performing the renal function, "it follows tor in the prognosis of Bright's disease, namely: that a lesion may have impaired the functional power careful inquiry into the type or pathological variety, of the organ at least one-half, without necessarily whether parenchymatous (or, as Dickinson prefers, giving rise to important symptoms of disease. Sec-tubal), interstitial or amyloid; for until the physician ond: the important organs of the body other than the has sharply defined ideas as to the intrinsic pathology kidneys must be capable of performing satisfactorily of a given case, he is in a poor condition to prognostheir respective functions." . . . Third: "the laws ticate concerning it. of health, relating to alimentation, exercise, exposure to cold, mental excitement and habits of life must be beyond criticism. Especially are to be combe observed." "Now," he continues, "suppose mended his remarks as to the question of "renal these, as we will call them, accessory conditions to be adequacy," and how it is to be ascertained. Practifulfilled, and a lesion of the kidneys to exist which tioners rarely fail to inquire as to the presence of aldiminishes their functional ability one-half, and the bumin and casts, but too often neglect entirely the disease not to be progressive, life and health are com- question as to the eliminating power of the kidneys. patible with the existence of chronic Bright's disease As Dr. Flint well says, "albumin and casts in the for an indefinite period." To this we must agree, urine show that the kidneys are doing what healthy In fact, a patient combining in his own person all organs ought not to do; but the more important inthese remarkable conditions would make a pretty quiry is, are they doing what healthy organs ought to fair life insurance risk, and his heirs would wait wea- do?" And this, as he further insists, can be ascertained rily for the reading of his will.

disease presenting all these conditions? Have we tity of urine passed and its specific gravity give ever seen a case of chronic nephritis in which the assurance that a sufficient degree of elimination is "important organs of the body other than the kid-going on, "the indication for diuretics, hydragogues ney" were "capable of performing their functions and sudorifics is entirely wanting. We may add an satisfactorily" (?) Is it not a fact that their functions emphatic approval of the protest against the indisare necessarily, invariably and unavoidably disturbed criminate use of diuretics, hydragogues and sudoriby the vicarious labor they are called upon to per- fics, when they are not only not indicated, but must form? Every candid clinician of experience must do positive harm. We have long and imperatively answer this question in the affirmative. In truth, insisted upon this very point, and are glad to have every case of chronic nephritis, of whatever type. the support of so high an authority as Dr. Flint. involves not only functional but also lesional changes | Especially, must we object to the needless and genof other important organs. Dr. Flint speaks of non- erally harmful use of diuretics in chronic nephritis, progressive or latent Bright's disease, as though lat- or, in fact, any lesion of the renal organs. Dire ency or inactivity might be safely predicated of a necessity may compel the use of diuretics, but it certain number of cases, as an element of prognosis, must be regarded as an unfortunate necessity, since There are cases of Bright's disease which progress the prime condition of recovery in case of a diseased very slowly, but they are few and far between; there kidney is physiological rest, and diuretics do not are other cases which exist for an indefinite and un-tend to this. known period of time before they are discovered; there are cases in which the urine is non albuminous ful paper of the distinguished clinician to the careful at times, and even for considerable periods; and attention of our readers. Every such paper becomes there are cases from which the albumin slowly disap- a permanent and important integer in medical science, pears never to return; but in all these types there is and we can only regret that in this case it was reprogress, constant and unceasing, and we cannot stricted in length. very well understand the term "latent" as applied to

movement, nevertheless.

In this connection it may be added that, in our

The remainder of the paper in question seems to by simply measuring the diurnal quantity of urine, But how many of us have seen a case of Bright's and taking its specific gravity. So long as the quan-

On the whole then, we must commend the thought-

The intermittent fever of malarial origin is so combranding nearly every fever, when accompanied by this group. In the third and fourth groups the course chilliness, as malarial. This habit is not only con- of the fever closely resembles an ordinary intervenient to himself, by saving trouble and hiding ignor- mittent, yet for the most part is irregular. At other ance, but it is also highly satisfactory to both patient times the paroxysms come and go for a while with and friends, since it agrees with their preconceived the periodicity of a quotidian or tertian fever. In opinions. There are intermittent fevers, however, the third group, moreover, the endocarditis is not that are of very different origin. Their type is irreg- discoverable, and its existence is only surmised, or it ular and their course is particularly stubborn to treatment. It is probable that in most cases they conceal The fourth group, on the contrary, is discovered with the original disease beyond detection.

great clinical interest, since a clearer knowledge of eased heart, although the disease may have been so its peculiar features may aid in the recognition of fully compensated as not to have given rise to that notoriously obscure affection. In 1882 Leyden symptoms. contributed an excellent paper on this subject to the Zeitschrift für klinische Medicin, which may be found tional disturbance or physical signs of cardiac disin vol. 4 of that journal. He says the subject merits ease, other than can be reasonably attributed to the greater study than it has received. References to it fever, the existence of endocarditis can only be inin medical literature are scanty and for the most part ferred. It is rendered certain only by the subsequent are confined to observations upon the rigors character- development of a valuable lesion or by the autopsy. izing most attacks of endocarditis. The older writers. The real nature of the fever is obscure. Since there speak of the fever of this affection in only general is always enlargement of the spleen it may be an abterms. Even Traube's writings mention it but twice, normal and stubborn attack of malaria, and incipient In the second part of his work, while commenting tuberculosis; or there may be a deep-seated abscess upon a case of pyelophlebitis, he remarks incident- or a pyelophlebitis of a cerebral sinus, or of the portal ally that the fever of endocarditis is also intermittent, vein. Whatever it may be, it resists all ordinary In the third part of the same work, Fraenkel, in a remedies, such as quinine and salicylic acid. The report of three cases of endocarditis, emphasizes the patient becomes anamic, wastes away and at length diagnostic value of rigors in this affection. Rosen- succumbs to the disease. In the fourth class of stein, in Ziemssen's work upon special pathology and cases a simple endocarditis has existed previously, therapeutics, divides endocarditis into two classes leaving a fully compensated valvular lesion behind. according to the character of the fever. In one it is Some deleterious influence now lights up a fresh intyphoid in character, and the differential diagnosis is flammation which this time is malignant. The exact often difficult. In the other the fever is pyæmic, being nature of the toxic agent cannot be determined percharacterized by the formation of metastatic abscesses haps, but Leyden thinks the fibrinous vegetations and by rigors. Litten likewise distinguishes a septic already existing upon the endocardium furnish favoravariety of the disease, in which the fever is more in- ble pidus for attachment and development of microtense and irregular than in rheumatic endocarditis, organisms. Affected valves may become healed by Abscesses occur in numerous parts, accompanied by the adhesion or sclerosis of their surfaces, but ulcerrigors. Such then, according to Leyden, is the de- ated areas are prevented from healing by the layer of sirability of a more detailed account of this form of infected material covering them. The organism can fever, that he divides it into four groups or varieties. not get rid of these parasitic bodies which con-

traumatism or operations. This form of endocarditis which tells upon the vigor of the left ventricle. is also observed in connection with phlebitis and. As illustrating this last form of the disease, Leyden

INTERMITTENT FEVER AND ENDOCARDITIS. abscesses, as shown by a case of hepatic abscess reported by Leyden. In his second group the enmon an occurrence that even the humblest practi- docarditis is manifested by a fever of greater or less tioner considers himself capable of its recognition. intensity and irregularity. Rigors are present but con-Indeed, so confident is he of his unerring ability in form to no established type. The cases reported this direction, that he readily falls into the habit of by Traube, as well as several of Litten's, belong to is recognized only towards the close of the fever. comparative facility and is therefore the most interest-Such a fever is that due to endocarditis. It is of ing. Here the endocarditis attacks an already dis-

In the third group, owing to the absence of all func-In the first group the endocarditis attends and continue to thrive at the expense of the patient's system. stitutes an essential feature of blood poisoning, whether Yet not alone the general health suffers; the heart from puerperal septicæmia or pysemia resulting from muscle becomes invaded by areas of myocarditis

narrates the history of four cases, two of which came all personal feelings, honorably tendered as many to autopsy. In one, the attack seemed to result from appointments in their own body as the Rules of the residence in a damp house. Another began to feel organization permitted, to the most eminent of those ill after having eaten oysters that were not quite fresh. thus far in opposition. Instead of meeting a prompt rhenmatism, while the fourth appeared to be due to organized caucus of the opposition in Philadelphia, in malarial poison. heart-disease.

### PROGRESS OF THE OPPOSITION TO THE OR-GANIZATION OF THE INTERNATIONAL CONGRESS-SIGNS OF THE END.

When the American Medical Association at its meeting in New Orleans simply exercised its right to enlarge its Committee on the Organization of the Congress, and make it more truly representative of the whole profession, a few leading men having the control of two or three prominent medical journals captiously denied the right of the Association to meddle with the matter. They were soon compelled to abandon that position as untenable.

They next made a sudden and concerted attempt to prevent the Enlarged Committee from making any progress in the work of organization by the most reckless efforts to keep members of the profession from accepting any official positions in the Preliminary Organization of the Congress. They denounced the action of the Association, and openly avowed their preference to have the whole profession of the country disgraced by a withdrawal of the Congress former one of bluff. to some other country rather than to make any honorable and fair concessions to the fairly expressed wishes of the National Association. In the meantime, the properly Enlarged Committee on Organization quietly progressed with their work, adopting complete and satisfactory rules of organization, and appointing the provisional officers of the Congress and of the Sections; thereby providing an efficient Executive Committee of the Congress to take all further control of its affairs. The Executive Committee promptly commenced its work by publishing the Rules and plan of organization for the Congress both in this country and in Europe. The announcement has been received with favor on both sides of the Atlantic, and active progress in the preparation of programmes of work for the several Sections is being made. Time has thus demonstrated that every effort of those who had banded together in opposition to the work of the legitimate organization had actually

The Executive Committee, desirous of removing

In the third the disease could be traced to gonorrheal acceptance, the appointments were submitted to the All were subjects of previous which were made professions of extraordinary regard for the National Code of Ethics and for the welfare of the National Association; but it ended in suggestions of an utterly impracticable character. More recently, as shown by our special Philadelphia correspondent, in THE JOURNAL of January 16, they assumed still further the rôle of professional harmonizers and special friends of the American Medical Association, while electing delegates to the Association in the meeting of the Philadelphia County Medical Society by methods unknown to the usages of the Society. This is a practical acknowledgment of the right and duty of the Association to make good all arrangements implied by the invitation to the Congress given in behalf of the profession of the United States.

> The sample of their work done in the Philadelphia County Medical Society shows their last card, which consists in a desperate effort to control the election of delegates to the meeting of the American Medical Association in St. Louis, in May next. Their methods and purposes are now fully apparent to the profession at large, and their last game, under professions of harmony, will avail them no better than their

### "MUTUAL PROTECTION AGAINST BLACKMAIL."

The increase in the numbers of the legal profession does not seem to have done much towards disproving the old saying that "The end of the laws is to defeat Justice;" and it is entirely probable that the saving will remain true until the intelligent American juror is legislated out of existence, and with him his counterpart, the "shyster" lawyer. In the preceding pages of this week's issue of THE JOURNAL is to be found a timely article on "Mutual Protection against Blackmail," by Dr. EDMUND J. DOERING, of Chicago. We need not repeat the many and forcible arguments made in favor of a "Protective Association," as they have been well stated by Dr. Doering and the correspondents whose letters are quoted. We will therefore confine our comments to the objections which have been made against such an Association.

The first objection brought forward is, that the fact all excuse for continued divisions, and disregarding that a physician is a member of a protective associ-

ation may prejudice the jury against him. As a matter of fact Dr. Doering quotes two legal opinions to the effect that the fact of membership in an association of this kind could not be, as a matter of law, properly brought before a jury; and that "the fact that the defendant was a member of such a society would not be competent evidence." If, however, the fact should get into the case in any way, it could be equally brought out that the association was not for the purpose of paying judgments, but only to defray legal expenses. In this connection may be mentioned the suggestion of Mr. O. H. Horton, that in to Dr. Doering, which was incorporated in the paper, specifying the objects of the association, they should include the protection of the public as well as of the physicians. But Mr. Horton's suggestion that the association should promise to keep professional secrets out of the courts is unwise, we think, as being a little in advance of common law, which does not recognize the right of a physician to withhold any secret.

A second objection is that the counsel employed by the association might not be the man whom a few individual members would select to conduct their own case. This is no objection at all to the formation of an association. Travelers may as well object to riding on certain railway lines because the family physicians are not the surgeons to that road. The association could not and would not undertake to compel the defendants to employ its attorney; it is simply for the purpose of assisting any member who may be so unfortunate as to be blackmailed, and see urged by several of the doctor's correspondents in that he gets as much justice as can be had at the hands of a jury. Many physicians cannot afford to employ counsel, and run the risk of having heavy damages awarded the prosecutor. A judgment of affect the case. There is no doubt but what this is two or three thousand dollars would be financial rnin true. But the verdict of a jury in malpractice suits to some physicians—for there are still some who are not capitalists. As regards the manner in which some of these suits are said to be brought, we may say that it is illegal for a lawyer to undertake a suit on shares, or for what he can make out of it. But the real difficulty in a great number of the malpractice suits brought is that the lawyers are not posted on the case. Very many lawyers seem to think that the subject of fractures can be learned in a week; they do not know medicine, and know but very little legal medicine as a rule. Should such an association be formed, then, the first duty will be to get an attorney who knows enough of medicine to undertake a case without being coached and "crammed" by the defendants. If organized and conducted on proper principles, there seems to be no good reason why

# SOCIETY PROCEEDINGS.

CHICAGO MEDICAL SOCIETY.

Stated Meeting, January 18th, 1886. D. W. GRAHAM, M.D., TEMPORARY CHAIRMAN. Dr. E. J. Doering read a paper entitled MUTUAL PROTECTION AGAINST BLACKMAIL.

(See page 114.)

DR. F. C. Hotz said that the extract of his letter indicated that at the time it was written he did not think favorably of the project. And, after listening with much interest to the doctor's arguments, he saw no reason for changing his opinion. Professional reputation and honor is the most personal of all personal property; if he lost it, it does not hart anybody but himself, and therefore if any attack be made on it he should certainly wish to employ among the able lawyers the one in whose ability he had the greatest confidence. But he was not sure whether the lawyer retained by this protective union would be the one to whom he should like to trust the defense of his reputation. The attorney might be as able, or abler, than the lawyer of his own choice; but should the case go against him, he should never feel satisfied that the lawyer had done all that could be done for him unless he had full confidence in him. It is with the lawyer as with the physician, a question of confidence, and his patrons find no fault with his treatment as long as they have implicit faith in his ability.

An objection of greater weight, however, has been asking what possible effect it might have if the fact was brought out in court that the defendant belonged to such a union? The lawyers whose opinions were obtained and read by the doctor say it cannot legally is not determined by the legal aspect of the case; and circumstances which cannot have any legal effect upon the case have often made a deep impression upon a jury and decided the case against the physician. To illustrate: In Dr. Bettman's first trial the experts of the prosecution testified so unreservedly in the doctor's favor that had the case been then submitted to the jury without arguments, the doctor would have been acquitted at once. To fortify his cause Dr. Bettman's lawyer called a number of experts whose testimony was of course only cumulative. Now what did the prosecuting lawyer do? Did he make an effort to break down the expert evidence by scientific arguments? No, sir; but he wiped out its effect upon the jury by the mere waving of his hand, speaking thus: "The defense has piled up a mountain of expert evidence. But, gentlemen of the jury, what does it all amount to? These doctors are working together in the same hospital. Don't you see that they have a common interest to sustain each other, such an association should not be productive of good. because every one of them may be in the same fix some

day? Don't you know they are clannish? They He did not mean to charge physicians with purposely, won't admit that one of them can make a mistake. wilfully instigating a lawsuit against a professional O, no!" One could fairly see the impression this harrangue made upon the jury, and they rendered a verdinary baseness is a rare exception. deal out of it before a jury.

which the doctor evolved his idea how this new soci-damages. And doubtless, in a similar way the mind ety could prevent, ward off, malpraetice suits. He of a patient is often poisoned and set against his believes the shysters would not be so eager to engage physician by a careless or unkind remark of another in this business if they knew they had to fight a corphysician. So many physicians are always ready to poration with plenty of means to employ the best express their opinion about their colleagues in the legal talent. Why this should discourage those fel-presence of anybody, or to criticise their professional lows, it is hard to understand. They do not sue acts upon the information received from a patient or poverty-stricken doctors. Whom they select for their some old woman. Now you all know how these peovictims they suppose to be rich and consequently ple misconstrue the words of a doctor; how they able to employ a good lawyer. They do not expect pervert the facts inadvertently. You must admit you to have an easy game; but why should they not try cannot rely on what patients tell you, and you canit? They don't risk anything by it. The black- not form an opinion that is worth anything of a case mailer's stake is only two dollars and a half for filing you have not seen or been informed about by the his application, and his lawyer's stake is his time, which is not worth much anyhow. So you see, they have nothing to lose, but much to gain. What difference should it make to them whether the opposing say he is competent to attend to his own business; if counsel is engaged by one physician or by one you don't know him, change the subject. But at all hundred? If you wish to devise means by which events, unless he be a notorious quack, refrain from this blackmailing nuisance can be stopped, or at uttering any words which even only insinuate the least reduced to a minimum, you must try to get to possibility of a mistake or want of skill of your the roots of the evil; that is, you must find the causes colleague. which usually bring it forth. And you will not go far to find them; for you find them right at your door, other; sustain each other, "stick together and be in our own profession, in the shape of indiscriminate clannish;" let it be understood in public that no repudispensation of gratuatous services and of unkind re-marks of one physician about another. Physicians court as expert for a blackmailer. If all the reputawhat they get for nothing. And it is also a wide- of a protective union. spread notion (especially among the lower unedu- Dr. P. S. Haves said that from his costly experi-

diet against the doctor, though it is certain the lawyers will say the fact of his being associated with the experts in the same hospital should and could legally opinion about a case, or a colleague. To illustrate: not prejudice the jury. But it evidently did all the A physician at a Dispensary shows a bad case to same. And after such experience, can you for one professional friends, and without thinking of the posmoment believe it would not damage the physician's sible evil consequences, makes in the presence of the cause if it was shown he and his experts belonged to patient some remark like this: "Well, perhaps I ought a society formed for the express purpose of mutual to have done this or that." The patient, already assistance in malpractice suits. A mighty poor law-laboring under the impression that he was not fairly yer indeed he would be who could not make a great treated because he could not pay, sees in the doctor's remark the strongest confirmation of his Very interesting was that part of the paper in suspicion, goes to a shyster and begins a suit for

Stop running each other down; stand by each are altogether too quick to give their services gratis ble physicians of this city adopt and act on this to almost anybody at any time. But you know very principle, blackmailing the medical profession would well people do not value very much what they can soon be a thing of the past, and malpraetice suits get for the mere asking; they do not think much of more effectually prevented than by the organization

cated people) that the quality of service is regulated ence in a malpractice suit he felt that an association by the amount of money they pay for it; that the such as suggested by Dr. Doering would be of great treatment at a free Dispensary, because gratuitous, is service. The lawyer employed by such an associanot the same, not as good as at the physician's office tion would speedily acquire such a fund of medical where they have to pay for it. These people cannot knowledge that he would be considered an expert in persuade themselves that a physician will take the malpractice cases. He would not require an amount same interest in a case whether or not he is paid for of coaching necessary to prepare for any given case his services. The poor, therefore, are alwars suspicious that they do not get their full share of attention; had no experience in such cases. His opportunity they are quickly ready to charge their physician with carelessness if the ease goes wrong. And with a largely extended, for each member of the association patient in this frame of mind it takes but very little to whom he might apply would be interested in giving encouragement to begin a suit for damages. And in him the desired knowledge. He would soon become nine out of ten cases, doubtless, this encouragement acquainted with medical witnesses and know which is furnished by the members of our own profession. would give the best testimony in any case.

paper, might be a means of educating its members vertebrate kingdom has been hermaphrodite, there in regard to laws bearing on the rights of physicians remains the facts "that at a very early embryonic and their patients, now not generally understood, period both sexes possess true male and female For one he is heartily in favor of such an association, glands" (Darwin), and in each mature individual ru-

and should give it his hearty support.

DR. G. C. PAOLI said Dr. Doering's paper is not sex are extant. only a valuable one, but contains such a high, noble, charitable feeling, that the Society ought to be grate- enough as long as the struggle for existence is but ful to him. He wondered that such steps had not slightly marked, but in higher life, where the least been taken before, because so many of our profes- advantage is of moment, hermaphroditism gives rise sional brethren have not only suffered annoyance, to separate sexes in the following manner: those herbut pecuniary loss as well. How can we expect maphrodites whose spermatozoids and ova mingle from an ignorant jury a decision based on scientific with the generative products of other hermaphrodites knowledge and justice?

paper was worthy of consideration; that the discussion ulation between hermaphrodites became established of the formation of an association with an object so is the struggle for existence; but this is an observed widely different from the Medical Society seemed out fact, for Darwin said: "There is reason to believe of place; the one essentially scientific, the other in that with all hermaphrodites two individuals, either the nature of an insurance. The right to form such occasionally or habitually, concur for the reproducan organization was unquestioned; the policy should tion of their kind." be considered by each individual. That while any one might be made the object of blackmail, he be- maphrodite which had been used more frequently in cases.

Dr. H. D. Valin read a paper on

THE ORIGIN AND SIGNIFICANCE OF THE SEXES AND THE DETERMINATION OF SEX IN UTERO.

He said that it is not generally known that intermediate steps exist by which sexual generation is as man. Such a transitory stage as alluded to above evolved from a primitive mode of conjugation of two is met in mollusks, and in the common oyster; the or more similar organisms. The process of conjuga- genital cœca in any given individual are found to be tion observed in the slime moulds resembles a sexual either almost all ovigerous or almost all spermigerprocess of extreme simplicity. But this union seems ous (Huxley). to take place between undifferentiated individuals, and as no sexual organ or secretion is present, it organs of one sex almost always predominate over could not be called sexual, and it is only a step those of the other. higher than that observed by Ch. Robin in the noctiluca, individuals of which sometimes swallow others formulating the following hypothesis, which will ex-

dorina morum, Volvox globator, and Volvox aurens. gans, this latter set, as embryology proves, is slow In the first the spermatozoids are not differentiated to disappear, and concentrates itself in the germinal from the granules of the ovum, in the second they matter. In other words, as the male organs become

exist each in a different colony.

contain an organ (ovo-testis) from which spermato- queen bee (Huxley) contains a male germ in each zoids as well as ova are produced. In many animal of her unimpregnated ova, while the male bee transspecies both sexes are contained in one individual, forms, by means of his spermatozoids, the same ova as in the case of tape-worm, leeches, earth-worms, into females. barnacles, oysters, some star fishes; and among the vertebrates such is the case in several species of generally reproduces the opposite, as I claim, it is serranus, as well as in other fishes. However, most easy to understand why the number of each remains of the vertebrated animals have the sexual organs about stationary under ordinary circumstances. The distinct in two different individuals, but a condition law of Thury, of Switzerland, that "conception closely resembling hermaphroditism often occurs by following menstruation produces females, and conreversion as an anomaly; and should any one dis- ception preceding menstruation produces males, har-

An association of the character suggested by the believe that some remote progenitor of the whole diments of some of the sexual organs of the opposite

The condition of hermaphrodite is advantageous breed a progeny which is more vigorous than that DR, F. M. Weller said that the subject of the resulting from a single hermaphrodite, and thus cop-

Of course that set of organs in one individual herlieved that charges of malpractice more frequently would the better perform their function, while the arose from the ignorance of physicians of the statutes opposite set would become less active; and then we affecting the practice of medicine, especially those would find some hermaphrodites with better develof the criminal code, and of the rulings of the courts oped male organs, and others with better developed female organs; and the progeny resulting from the union of two such more differentiated individuals would be especially favored in their struggle for life and would breed individuals in which one set of organs would be abortive, while the other would be highly developed, as is the case in as high an animal

In the case of hermaphroditic human beings the

The foregoing facts and inferences warrant me in of their own species as they would a particle of food. plain the law of heredity: In hermaphrodites, while The evolution of the sexes is epitomized in the the organs of one sex become more highly evolved, three following species of the volvox family: Pan- at the expense, as it were, of the opposite sex's orare so differentiated, and in the third the two sexes better developed, the spermatozoids acquire a faculty for developing a female offspring, and vice versa. In the animal kingdom, some species of mollusks This hypothesis is based chiefly on the facts that the

Determination of Sex in Utero.—In case each sex

greater number of spermatozoids and more active these remarks he did not mean to cast reflection on ova will reach the ovum in the uterus than would in any of Dr. Kelly's cases. Pus was present in all of the Fallopian tubes and in the ovaries, and should them, and operation seemed to be demanded in all. any given cause act to reduce one sex, the other sex would thrive the better and would reproduce a with the views expressed this evening by Dr. Goodmajority of the rarer sex, thus restoring the equi- ell. Dr. Baer thought all conservative means should librium, and insuring an equal number of either sex be tried before operating. in the progeny.

Stated Meeting, Thursday, January 7th, 1886. THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR.

W. H. H. GITHENS, M.D., SECRETARY.

DR. HOWARD A. KELLY exhibited recent specimens of

PYO-SALPINX, HYDRO-SALPINX AND PAPILLOMA OF THE HILUM AND GELATINOID THICKENING OF THE FALLOPIAN TUBE.

Dr. William Goodell stated that while he recognized the necessity for operation in pyo-salpinx, he does not think it necessary in hydro-salpinx. He now refuses to operate in some cases of cystic disease in which one ovary may contain a cyst as of laparotomy, with four deaths, as follows: large as an orange, or in which the tube may be distended to the size of a sausage, because the sufferings of the patient and her general symptoms are not severe enough to warrant the operation. In many of these cases the symptoms may all be removed by the rest treatment, and it should first be tried. Small cysts are frequently found in ovaries, especially when uterine fibroids are present, but they the direction of too much surgical interference.

a class of cases suffering from small ovarian cysts or but to the adverse circumstances of the case. The distended tubes in which the rest treatment or any ovary and oviduct were filled with pus, and so matother loss of time could not be thought of, and in ted by inflammation to adjacent structures that only the disease incapacitate them from work; relief is in. Another death was due to shock after removal imperatively demanded, and he considered operation of the womb containing a fibroid tumor with exten-

and has operated for this reason in some instances, septicæmia, and are somewhat mysterious.

monizes with my hypothesis if we consider that a tender. Rest treatment had wholly cured her. In

DR. B. F. BAER has been strongly impressed lately

Dr. Kelly replied that he had presented the specimens purely from an anatomical and pathological standpoint, and that he will give the histories at some OBSTETRICAL SOCIETY OF PHILADELPHIA. future time, when the results of operation are well demonstrated. In each of them operation was imperatively demanded to save life. It is in such cases as those presented this evening that the great work in the future must largely lie. If the details of ovariotomy have been perfected, in such cases as these the chapter is only being opened. They are not examples of Battey's operation, or Tait's operation, but stand as representatives of classes of disease well defined with equally well defined indications for treatment. The extraordinary difficulty of digging such masses as these out of the pelvis makes opera-The histories of the cases will be given at some tive interference very fatal, although it is the only

Dr. Wm. Goodell read a paper entitled

A YEAR'S WORK IN LAPAROTOMY.

During the past year he had had forty-four cases

	Cases.	Deaths.	Recovery
Ovariotomy		2	26
Oophorectomy		1	8
Hysterectomy	2	1	1
Exploratory incision	4		4
Pelvic abscess	i		i
	-	_	
Totals	44	4	40

Of these forty-four cases, twenty-five had been do not necessarily develop into large ones. In many operated on at his private hospital, with two deaths; cases the cause of pelvic symptoms can be diagnos- twelve were operated on at the Hospital of the Uniticated by exclusion only, and even when small cysts versity of Pennsylvania, with one death; and seven or dilated tubes can be felt, treatment should be first were operated on at the homes of the patients, with tried, and will be sometimes successful without oper- one death. Of these four deaths, one only was due ation. He thinks the error of the present time is in to septicemia, and that a case of oophorectomy, occurred in a private room of the Hospital of the Uni-Dr. E. E. Montgomery remarked that there was versity. It was not, however, due to hospitalism, which operation seemed imperative. This was on a portion of them could be removed, and that in account of the pecuniary condition of the patient, who may be self-supporting or who may be the only support of others; the suffering and exhaustion of a drainage-tube put in, yet a fatal inflammation set sive adhesions, and weighing seventeen pounds. Dr. Goodell recognized this element of poverty, The two deaths after ovariotomy were not due to He was led to make his remarks by a case now un- case was operated on at the patient's home in Bedder his care. A lady was sent to him for operation ford, Pa., and Dr. Goodell did not see her again. after an opinion had been given by an experienced. The cyst was parovarian, weighing forty-three pounds; gynecologist of another city that relief could be obtained by operation only. On one side the ovary was enlarged, and the other ovary was prolapsed and were opened, and everything did well for twelve died on the seventeenth day. Six months previously with it. heart-clot.

ered papillary cyst to be benign in the very great curred, followed by the delivery of a living child. majority of cases, and that the danger from the es- DR. Howard Kelly remarked that Dr. Keith had were uterine. This very large proportion of adhe- dominal cavity? sions, when compared with those of European oper- Dr. BAER had experimented with Monsel's soluwomb. As the uterine cavity was not involved, the at the last moment before tightening sutures, and large pedicle was transfixed, tied and dropped. The then bandages the abdomen tightly. four exploratory incisions were made with a view of PR. Goodell, remarked that Dr. Montgomery was removing the ovaries on account of fibroid tumors perfectly right in his defense of the second ovary, of the womb. But in each the tumor was so fixed and he himself had performed double ovariotomy in by adhesions that the ovaries could not be reached, only seventeen cases of the twenty eight. He did and the patients had previously stipulated that in not believe that every ovary studded with cysts would that case the uterine growth was not to be removed. inevitably degenerate into an ovarian tumor. So, in communicating with the bladder and rectum. It women, he would be disposed either to let them alone incision, by which its exact position and size were women approaching the climacteric, or when other determined.

laparotomy, Dr. Goodell stated that he used the or-source of future trouble. He has used the drainagedinary knot and Staffordshire knot indifferently; that tube but three times during the past year; once in umbilicus instead of going around it on the left side; case of torn bladder, and in the case requiring over that he includes the recti muscles and all the tissues thirty ligatures and with universal adhesions. In in the abdominal sutures; and that while not a very general he uses it when a free oozing of blood is to firm believer in the spray part of antiseptic surgery, be expected, but he regards it as a source of trouble he had resorted to the atomizer in every case but and removes it as soon as possible.

days. Then obstinate vomiting set in and the lady one, and that one did as well without it as most do

she had had an analagous attack of obstinate vomiting DR. MONTGOMERY thought Dr. Goodell should be in which her life was despaired of. The fourth death congratulated upon his success, which is remarkable took place from a supposed attack of malaria to which for operations in unselected cases in the United the patient was liable. Both ovaries had been removed, the larger one weighing about thirty pounds. There were omental adhesions and very firm parietal abdominal surfaces very gratifying. He would have ones, needing a number of ligatures. She recovered used it recently but for the fear of bad after effects. promptly from the operation, the wound united, the He must, however, again enter his plea for the secstitches were removed, and she was allowed to sit up ond ovary. In young women small ovarian cysts are out of bed. On the seventeenth day malarial fever common, they are frequently found in post-morten with bilious vomiting set it, and she died rather sud- examinations where there had not been the slightest denly on the twenty-first day, with symptoms of evidence during life of their presence; and evidently these small cysts do not necessarily develop into Of the nine oophorectomies, four were performed large ones. The two cases of secondary ovariotomy for ovaralgia, three for bleeding fibroid, one for epil- reported by Dr. Goodell are not sufficient to warrant epsy, and one for a menorrhagia which had resisted the rule of removing the second ovary when it is but every known therapeutic measure. In three cases slightly diseased. As a counter-weight to Dr. Goodof ovariotomy, all of them with papillary cysts, rup-ell's cases he would mention that in the instance of ture had taken place a few hours before the opera- a young married woman from whom he removed an tion; but although the peritoneum seemed thickened ovarian tumor, and in which he left the other ovary. and injected, no bad result followed. He consid- which was slightly affected, pregnancy has since oc-

cape of the ovarian fluid into the abdominal cavity had remarkably good results from the application to was very much overrated. He had not refused to oozing surfaces of a solution of pernitrate of iron. operate in a single instance of ovarian tumor, no He has observed the gradual disuse of carbolic acid in matter how low the patient was or how firm were the washing-waters in operations. Dr. Kelly prefers boiled adhesions. He had consequently had several ex- or distilled water as used abroad, as he is sure that ceedingly difficult operations. Out of his twenty- carbolic acid and other germicides are frequent causes eight ovariotomies there were twenty-one with adhe- of poisoning and bad results after operation. He sions. In four the adhesions were universal; in asked Dr. Goodell what were his rules respecting the eight more they were intestinal; and in three they use of the drainage-tube in operations on the ab-

ations, he could explain only on the theory that tion. In one case in which he used it he attributed physicians in this country have not been educated the fatal result to it. The coagulation by the iron is up to the idea of an early operation, and to a recog- unsightly, and he should now consider it a last resort. nition of the evils of tapping. In the successful He had had very good results from pressure by packcase of hysterectomy a tumor weighing eight pounds ing sponges against the bleeding points, combined was removed, together with a portion of the enlarged with external pressure. He withdraws the sponges

All did well. So also did a case of pelvic abscess the case of slightly diseased ovaries in young married was opened per raginam by means of the abdominal or to remove the diseased portion only. But in conditions would make it advisable, he would remove With regard to the technique of the operation for the second ovary as useless in itself and as a possible he now in the long incision cuts directly through the the unfinished case of oophorectomy, again in the

# DOMESTIC CORRESPONDENCE

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Officers of the New York County Medical Association—The Etiology of Tumors—Library of the New York State Medical Association-The Suppression of Contagious Ophthalmia - An Act for the Better Preservation of the Health of Children in Institutions—Proposed Abolition of the State Board of Health—Annual Hospital Saturday and Sunday Collections.

The annual meeting of the New York County Medical Association was held January 18, when the hypothesis of a previously existing element left over following officers were elected for the ensuing year: from the embryonic state and possessing the power, President, Dr. Charles A. Leale; Vice-President, Dr. under favorable conditions, of developing into a John Shrady; Recording Secretary, Dr. P. Brynberg distinct tumor. When this theory was applied to the Porter; Corresponding and Statistical Secretary, Dr. carcinomatous group of tumors, it was found that Glover C. Arnold; Treasurer, Dr. E. S. F. Arnold; there was no direct proof of their embryonic origin. Members of the Executive Committee, Drs. John H. In sarcomatous growths there was more difficulty Hinton and C. S. Wood.

of the instructors in the Carnegie Laboratory, read cells exist in the body and develop into a distinct a paper on the Etiology of Tumors, which was de-tumor under favorable circumstances, he was of the signed as a study of some of the existing theories on opinion that the theory of Cohnheim could not be the subject, and an attempt to adapt them to the logically entertained. various forms of tumor which the author had had the Later on he said that clinical efforts or experiopportunity of personally examining. In speaking mental works had never been able thus far to connect of sarcoma and carcinoma, which, he said, were a bacterium with the cause of tumors. They had formed after types of normal tissue, and were most never been inoculated; and they had never infected frequently brought to the notice of the surgeon, he the surgeon. Still, he thought that the infectious mentioned particularly the secondary formations or origin of sarcoma at least possessed at present great metastases which are met with in connection with attractions. The discovery of a vegetable growth as them, and to their tendency to recurrence after re- the cause of actinomycosis had some bearing on this moval. Tumors based on the type of cartilage tis-subject. The recent nodules in this affection were sue, however, had been known to produce secondary made up of small round cells, while epithelial cells deposits also. These secondary metastatic or sec- and giant cells were found in those more advanced; ondary deposits bore the same relation to the struc-tures in which they found a resting-place, as the parent tumors, and assumed the same changes in cells of these deposits coming from the original tumor, were caused by a micro-organism, it was necessary to and the channels of infection are the lymph and blood. suppose that it was of a nature which requires very In the ordinary cases of carcinoma examination of favorable conditions for its development. the advancing mass showed infiltration of the normal tissue by epithelial cells, and in this formation, at "It seems to me that the misplaced epithelial eleleast, it was unnecessary, he thought to imagine a ments can account for all of the reactive changes in virus, transmitted to the body from without, as the the cells of the matrix. If a micro-organism must cause of the proliferation. As regards the malig- be considered as the cause of this class of tumors, nancy of cancers, the important part lay in the mis- the question as to why it should affect the epithelial placed epithelial cell. The independence of these cells alone does not seem capable of explanation. epithelial cells, when removed from their proper There is no evidence that would lead to the belief resting place, might be seen in the cases of successful that it can change the cells of the organism into carskin grafting.

so difficult to imagine the cases in which this infiltra- same might be said of sarcoma. The hyperplasia of

tion might occur. In some cases of breast-cancer which I have examined it seemed that I could make out a distinct connection between the swollen epithelium of the duct and the cells beyond. This fact has been mentioned by others. The epithelium in the duct and the connective tissue seemed identical in form and appearance."

Cancer, as a rule, seemed to develop on tissue subject to prolonged irritation. The most recent changes occurred in the epithelial tissue; but the diagnosis of cancer could not be made until the epithelial cell formed nests in the connective tissue. If this epithelial element did not come from the proliferating interpapillary processes, it might exist previously, and to suppose this was to admit the embryonic theory of Cohnheim; which involves the experienced in accepting this embryonic theory; and On this occasion Dr. Laurence J. McNamara, one until proof could be furnished that these embryonic

growth, development and invasion of organs as the ing, presented changes of a similar character in the primary growth. There could be no doubt as to the reactive appearance of the cells; but if the growth

As to the microbic origin of careinoma he said: in grafting.

"Place them," he continued, "in the interstices glands should be transformed into distinct epithelial of the loose connective tissue, bathed in the nutrient tissue." The action of the micro-organism, he went fluids of the body, and beyond the restraining influ- on to say, is of an inflammatory character, specific in ences of their own proper tissue; the result must be its nature. In carcinoma the inflammatory changes an increase in activity and development. It is not represented the action of the cellular matrix, and the

tissue to cast out or destroy the foreign body.

theory could be assigned the production of these especially of the eyes or skin. No child suffering tumor-growths. Some of them could account for from any contagious or infectious disease shall be their formation, as the embryonic theory explained allowed to enter or remain in any institution in conthe existence of teratoma. The infection theory, tact with children not so affected; but shall be imwhile drawing the attention of the surgeon to the mediately isolated or placed in a proper room or malignancy of certain growths, did not have to go infirmary, which shall be provided for that purpose. outside of the organism and its cellular elements to It is also made the duty of the physician to give explain their occurrence.

to the Library of the New York State Medical Asso- that there shall be less than 600 cubic feet to each ciation, where they enjoyed a supper and much occupant. The act was approved by a unanimous pleasant social intercourse. The library is also in vote of the Academy, which also authorized the Comthe Carnegie Laboratory Building, where the meet- mittee to have it introduced into the legislature and ings of the County Association are held, and, with to arge its passage. 35,000 volumes already on its shelves, presents a very

attractive appearance.

the committee appointed last June to take measures, cil will fulfil the duties pertaining to the latter. The in connection with the representatives of the State last new Section organized in the Academy is one Board of Charities, the Society for the Prevention of on Orthopædic Surgery. Cruelty to Children, and the Association for Improving the Condition of the Poor, for the Suppression of the Abolition of the State Board of Health, and that Contagious Ophthalmia in the asylums and industrial its functions should be performed by a single comschools of the city and State, made its report through missioner instead. The proposition has not met with Dr. Richard Derby. It was stated that a large number of these institutions had been visited; the exam-ber of these institutions had been visited; the exam-Board of Health of the city of Kingston, on the inations being conducted by the sanitary inspectors. Hudson, it was suggested that if this measure was of the Board of Health, accompanied in each instance proposed for the purpose of saving money, it would by experts in ophthalmology. Some of the facts be better to abolish the legislature, as the less useful elicited are shown in the following extract from the and important body of the two. . The Governor has report: "The Committee desire, in substance, to very wisely reappointed as Surgeon-General Dr. say that a worse state of things exists to-day in most of the asylums visited than the preliminary report Hospital Medical College, who has done a very exread before the Academy in June last indicated. cellent work in this position, and made it something Reports received from various reputable physicians more than an empty name. show that in nearly all the asylums of the city chil- A short time since a case of small-pox occurred in dren are admitted without due examination of their the insane asylum on Blackwell's Island, and 114 of physical condition, especially as to the condition of the inmates and attendants were vaccinated. Dr. their eyes. The reports show that the physicians who Seaman, chief of staff of the Charity Hospital, on have charge of these asylums make no systematic the Island, says that that institution, through its sysinspection of either the buildings or their inmates; tem of vaccination, has done more to protect the that no system at all adequate of quarantine is practiced; and that many of the asylums are grossly every patient admitted to the hospital has been vacovercrowded. Besides all this, very grave defects in cinated immediately after arriving, and in this way plumbing have been found. To protect the children some 50,000 persons have been protected against cared for in the asylums and industrial schools of small-pox. this State the Committee is satisfied that legislation is needed."

investigations of the Committee, Dr. Derby submitted Association were \$601,80r. There was an income prepared by Mr. Elbridge T. Gerry, President of the received from contributions other than gifts or be-Society for the Prevention of Cruelty to Children.

quests to the permanent fund was \$201,402; through
This proposed bill provides that every incorporated
institution in the State receiving or caring for children
(excepting hospitals) shall have attached thereto a
regular physician in good professional standing. Such physician shall carefully examine each child applying door and dispensary departments, 109,741. P. B. P.

the matrix was but an indication of the efforts of the for admission to the institution, and shall give a certificate in writing stating whether or not the applicant In conclusion he said that it seemed that to no one is suffering from any contagious or infectious disease, notice in writing to the officers of the institution At the close of the meeting the members adjourned whenever any dormitory therein is so overcrowded

The Academy of Medicine has abolished two of its standing committees, that on medical education, At a recent meeting of the Academy of Medicine and that on ethics; and hereafter the general Coun-

It is hoped that this year the annual Hospital Saturday and Sunday Collections will amount to At the conclusion of the report, which contained \$50,000, when all the reports have been sent in. a large number of details in regard to the abuses During the year ending September 30 last, the total existing in the various institutions, as shown by the expenses of the twenty-one hospitals belonging to the the draft of an Act for the better Preservation of the from invested funds of \$127,099, and from city, county Health of Children in Institutions, which had been and State appropriations of \$29,635. The amount

# LETTER FROM PHILADELPHIA.

FR M C. R CWN CORRESPONDENT

Electric at the County Medical Society-Resolutions in Regard to the International Congress-Dr. Levis's Address before the Academy of Surgery—Col. Waring's Address on the Disposal of Sewage—Discussion on Pasteur's Treatment of Hydrophobia.

that the voters could exercise a choice at the polls. Society

The vote in favor of this motion was about three to one, and showed pretty plainly the sense of the meet ng. While the voting was proceeding, Dr. Agnew proposed the following resolutions, which were

of that action as may best conduce to the reestablishment of professional harmony and to the success

The result of the election was that the new ticket was chosen by the overwhelming vote of 160 votes as against 36 for the ticket of the nominating com-

mittee.

The annual address before the Academy of Sur-The last business meeting of our County Medical gery was delivered on January 4 by Dr. Levis, who Society was, as your occasional correspondent "Specselected for his subject Impediments to American Surtator" has said, one of great interest. It was an ungery. Of these, he mentioned lack of organized usually large meeting, because of the anticipated effort, and loss of unrecorded work. In this concontest over the election of delegates to the State nection he urged a hearty support of the Committee Society, and to the American Medical Association, on Collective Investigation appointed at the last In-It was well recognized that the election of the dele-ternational Medical Congress. He also referred to gates proposed by the nominating committee would the reprinting of foreign works at a lower price than be taken to mean that the Society approved of the native medical works can be produced, and advoaction of the Association at New Orleans in regard cated the passage of an international copyright to to the proposed International Congress, and that it protect our own authors. The value of the Ameriendorsed the man who is considered here as the rep- can text books is to be seen from the fact that, in resentative of all that that action implied. It was spite of the influence of local jealousy, in 72 colleges. equally well understood that the election of the in-there are recommended to the students 157 Ameriformally presented candidates would mean that the can works on surgery as against 186 foreign works; Society did not approve of what the Association has and he mentioned with pride that of the American done, and will not endorse those who furthered it. works there are three more in demand than any There was a great deal of excitement at the meeting, others, and these are all by Fellows of the Philadeland it was apparent that all present felt the import-phia Academy of Surgery. Dr. Levis also made a ance of the vote which was to be taken. Before it plea for the encouragement of the labors of men who was reached there arose a question of law. On the live at a distance from the cities. He mentioned the one hand the rules of the Society were cited, and it achievements of McDowell, Atlee, and Sims, as inwas claimed that no candidates could be considered dications of what may be accomplished at a distance as eligible except those proposed in the usual way from what are generally regarded as the best places by the nominating committee. On the other hand for advances in surgery. A considerable part of it was replied that, if this were the case, the Society the address was devoted to discussing the opposition would not annually go through the farce of an elec- to experiments on the lower animals. Here Dr. tion, the mere fact of holding an election implying Levis was severe enough on the antivivisectionists.

Within a few days Col. Waring addressed the Col-In addition to this, it was claimed that the list pro- lege of Physicians on *The Disposal of Schange*. He posed by the nom nating committee was but part of presented his now well-known views in regard to a report, and that the Society could treat this report this matter, illustrating the successful working of surlike any other, altering or amending it, as, for exam-face disposal of sewage by the case of the Norrisple, by substituting other names for those proposed, town Hospital for the Insane, in this State, and on if it saw fit. Under this claim a motion was put and the edge of this city, where the entire sewage is carcarried to substitute for the names on the ticket seried, separate from the surface water, through pipes lected by the nominating committee another set of to a tank which communicates with a field 1000 feet names, the same as were printed on the new list, feet away, where it is distributed over the surface. which had been sent by mail to the members of the By this process the land is fertilized and the sewage

The last conversational meeting of the County Medical Society was occupied with a discussion of the method of treating hydrophobia recently announced by Pasteur. The paper of the evening was read by Dr. Dulles, who gave a summary of all of Resulted. That at its annual election of delegates Pasteur's communications on the subject of hydroto the American Medical Association and to the phobia, and endeavored to show that the evidence Medical Society of the State of Pennsylvania, the add ced from time to time by Pasteur in support of Philadelphia County Medical Society desires to exhibit various theories does not recommend them very press its regret at the action of the American Medi strongly. He laid great stress upon the apparent cal Association at New Orleans, in view of the in-contradictions of Pasteur's own statements, and the news results which have followed to professional inconsistencies of his conduct: as, for example, when harmony and to the prospects of the International he asserted two years ago that he had a way of rendering dogs refractory to rabies in as large numbers as Res. It ed. That the delegates from this Society be any one could wish, and yet has not rendered a sinjustificated to endeavor to procure such modification, gle dog refractory to rabies outside of his laboratory such as charbon, and chicken cholera. The aim of disputed members, of our Congress." the whole paper was to convict Pasteur of drawing illogical conclusions from imperfect premises.

also claimed that Pasteur has protected dogs from in-national Congress, as Professor Hansen-Grut says oculation with rabies, and it was safe to suppose he was the case at the Eighth at Copenhagen? might protect human beings. To this Dr. Dulles re- Secondly. Is it expected that their homoeopathists plied that it might be reasonable to assume that (Drs. Siemsen, Ferich, and others) being "legally Pasteur knows what rabies is, if he had not put on acknowledged practitioners" in their country, shall record some of the symptoms upon which he rests become "actually members and undisputed mem his diagnosis. But, be has done this, and has made bers" of our Congress, as Dr. Hansen-Grut declares it clear that his ideas as to the disorder are much too they were of the Eighth? elastic, and liable to lead to error when applied by such an enthusiast as he is. As to the protection of ted to undisputed membership, is it also expected dogs by inoculation, he referred to the fact spoken that the other legally acknowledged practitioners of of in his paper, that in the past two years this ability this country, who belong to the eclectic, the physic which Pasteur claims has proved nothing but a ques- medical, the hygeio-therapeutic, and the mixed tionable scientific curiosity. The most that can be schools included in the enumeration of the legally substantiated for it is that Pasteur seems to be able acknowledged institutions in the United States, in to fortify the subjects of his experiments against the the Report on Medical Education of the Illinois artificial disease which his virus produces in unvae- State Board of Health for 1885, shall likewise be ac-

Dr. Wood suggested that there must be a great deal of truth in what Pasteur claims unless we are to Association want to plainly understand is, whether suppose his brain is undergoing the inevitable change. the doors of the Congress are to be opened to all To this Dr. Dulles did not agree, saying that a man legally acknowledged practitioners whomsoever in this might be very wise in general and yet mistaken as to country. They can then decide at their approacha special matter. This he thought to be the case with ing annual meeting just what to do. Meanwhile, Pasteur, and he hopes it was not necessary to choose perhaps. Dr. Billings, as Secretary of the Original between considering him right in regard to hydro-phobia, or crazy. It may be remarked that the senti-Committee really did expect of the American Medment here seems to be that Pasteur's claims are ical Association. extravagant and entirely unproved; and we have not had any suggestion of the excitement which had been stirred up elsewhere about hydrophobia in animals or in men. C. W. D.

# MEMBERSHIP OF THE INTERNATIONAL CONGRESS.

TO THE EDITOR OF THE JOURNAL:

Dear Sir. - While the International Medical Congress is being so vigorously discussed in the journals, it is possible the rank and file of the profession are being misled as to what was really expected of them by the Original Committee of Seven.

Some months ago the N. Y. Medical Record published a letter from Professor Hansen-Grut, of Hummellaft, Denmark, to Dr. H. D. Noyes, of New York, containing the following statements in reply to inquiries made by Dr. Noyes of him as Secretary-General of the Eighth International Medical Congress, as to the "admissibility of homoeopaths:"

(3). "The only qualification required was that the part of the work in good style.

in all that time. He called attention also to the fact member be a legally acknowledged medical practi that Pasteur's theories in regard to hydrophobia are tioner in his country. Our homocopathists, who were in striking contrast to his theories in regard to other legally acknowledged practitioners (Drs. Siemsen, diseases which he considers to be like it in nature, Ferich, and others), were actually members, and un-

Now let us clearly understand what is expected of us. First. Is it expected that our homoeopathists, Dr. S. W. Gross thought that Dr. Dulles did not who are also "legally acknowledged" practitioners do justice to Pasteur, and that he might be assumed in this country (Dr. Verdi, of Washington, member to know what hydrophobia is, because there is a large of the National Board of Health, for example), shall veterinary school near Paris, France, to which he likewise have the right to become "actually mem might be supposed to go to study the disease. He bers and undisputed members" of the Ninth Inter-

Thirdly. If homoeopathists are thus to be admit tually admitted?

Now, what the members of the American Medical A. M. A.

# BOOK REVIEWS.

THE PHYSICIAN HIMSELF AND WHAT HE SHOULD ADD TO HIS SCIENTIFIC ACQUIREMENTS IN ORDER TO SECURE SUCCESS. By D. W. CATHELL, M.D., late Professor of Pathology in the College of Physicians and Surgeons of Baltimore. 8vo, pp. 284. Fifth edition. Thoroughly revised. Baltimore: Cushings & Bailey. 1885.

The appearance of a fifth edition of this volume shows that it is well known and its merits fully appreciated. Consequently no extended notice is necessary. The work is more particularly valuable to the younger members of the profession, and cannot be carefully read without interest and profit. Its style is pleasing, and the statements inculcated are ennobling to the moral character, and calculated to inspire a higher sense of the true dignity of the med ical profession. The publishers have executed their

MANUAL OF DISEASES OF WOMEN. By CHARLES delphia: Lea Brothers & Co. 1885. Chicago: form the Treasurer at once of the fact. Jansen, McClurg & Co.

us, from the works of Emmet, Thomas, and other leading gynecologists—there is nothing to particularly recommend it to the practitioner. The student "cramming" for his examinations will find it particularly useful, and it seems to have been prepared with this end in view. But as we do not believe either in the theory or practice of "cramming" for examinations, we cannot recommend the book.

# ASSOCIATION ITEMS.

#### INFORMATION OF IMPORTANCE TO ALL MEMBERS OF THE AMERICAN MEDI-CAL ASSOCIATION.

MEMBERSHIP.—Every one who attends an annual meeting of the Association as a delegate pays at that time five dollars, and thenceforward becomes a Permanent Member. He continues as such as long as he remains in good standing in the body from which he was originally sent as a delegate. As a Permanent Member, he must pay Five Dollars Annually, when notified by the Treasurer, whether he attends the meetings of the Association or not. Payment of annual dues entitles him to receive the weekly JOURNAL of the Association for one year.

MEMBERS BY APPLICATION are such as have not become Permanent Members in the manner above indicated, but apply to the Trea urer for membership, forwarding at the same time to him five dollars and the certificate of the President and Secretary of their State or local society, that they are in good standing in such society. They pay five dollars annually thereafter, when notified by the Treasurer. Members by application can join the Association at any time, and they receive regularly the weekly JOURNAL.

WHEN DUES ARE PAYABLE.—The annual dues from Permanent Members are payable to the Treasurer at the time of the annual meeting of the Association, or immediately thereafter. The payment entitles the member to receive the Journal for one year from the following July. Payment for 1885, for example, entitles the member to the JOURNAL from July, 1885, to June. 1886, inclusive.

As some of the members have not yet forwarded to the Treasurer their dues for 1885, they are urgently requested to do so at an early day. Having entered upon another year of membership, they are morally and legally responsible to the Association for the payment of their annual dues, having already received for three months of the new year-1885-the Jour-NAL of the Association.

SUBSCRIPTIONS TO THE JOURNAL, from those who are not members of the Association, should be forwarded to the office of publication, 65 Randolph Street, Chicago, and not to the Treasurer; but all payments of annual dues must be forwarded to the Treasurer, Lock Box 1274, Philadelphia.

DEATHS.—When a member of the Association, H. MAY, M.D., Late House Physician, Mt. Sinai who is in regular receipt of the JOURNAL, dies, his Hospital, New York, etc. 8vo, pp. 357. Phila- family or other representatives are requested to in-

Payment of Dues for Previous Years.—As a Though there is nothing wrong in the matter of few members of the Association are still in arrears this book—since it has been culled the author tells for payment of dues for 1883 and 1884, they are us, from the works of Emmet, Thomas, and other requested to forward at once to the Treasurer the amounts for which they are indebted to the Association.

Transactions of the Association.—These annual volumes, thirty-three in number, to 1882 inclusive, may still be obtained, with few exceptions, from the Treasurer, at reduced prices. The Index to these volumes will be forwarded on receipt of One Dollar. An opportunity is thus afforded to complete sets of these valuable publications, or to obtain important papers and works which are daily becoming scarce.

> RICHARD J. DUNGLISON, M.D., Treasurer. Lock Box 1274, Philadelphia, Pa.

# MISCELLANEOUS.

HEALTH IN MICHIGAN FOR DECEMBER, 1885 .-For the month of December, 1885, compared with the preceding month, the reports indicate that bronchitis, neuralgia and pneumonia increased, and that typhoid fever, typho-malarial fever and diarrhœa decreased in prevalence. Compared with the average for the month of December in the seven years, 1879 -1885, pneumonia, remittent fever, typho-malarial fever, intermittent fever, diphtheria and consumption of lungs were less prevalent in December, 1885.

For the month of December, 1885, compared with the average of corresponding months for the seven years 1879-1885, the temperature was about the same, the absolute and the relative humidity were more, and the day and the night ozone were less.

Including reports from regular observers and from other sources diphtheria was reported in Michigan in the month of December, 1885, at sixty-five places, scarlet fever at forty-two places, typhoid fever at twenty places, and measles at five places. Reports from all sources show diphtheria reported at two places more, scarlet fever at three places more, typhoid fever at fourteen places less, and measles at one place less in December than in preceding month, November, 1885.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SFRYING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM JANUARY 16, 1886, TO JANUARY 22, 1886.

Major Warren Webster, Surgeon, sick leave of absence further extended nine months on account of sickness. (S. O. 15, A. G. O., Jan. 19, 1886.)

#### CORRIGENDUM.

FAGGE'S PRINCIPLES AND PRACTICE OF MEDICINE,—In a review of the first volume of this work, in The JOURNAL Of January 16, 1886, page 82, second column, last line, for "idea" read index. To say that this volume is without an idea would be far from true, and was equally far from the intention of the reviewer. It is hoped that the mistake was evident, as only a few lines above it is said that with the exception of the matter of treatment "the book is almost cyclopædic in the information contained in it."

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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CHICAGO, FEBRUARY 6, 1886.

No. 6.

# ORIGINAL LECTURES.

# COCAINE IN HAY FEVER.

Lecture Delivered at the Chicago Medical College,

BY SETH S. BISHOP, M.D.,

four times that of the standing army. Any information relative to this subject, especially if it offer a grains of quinine a day. ray of hope of relief or cure, is eagerly sought by its pathology, symptoms, or causes. The pollen of that a severe catarrhal condition of the nasal mu-grasses, weeds and flowers, and the heat of summer, cous membrane followed ablation of the spheno-

predisposing causes.

expressive of the nature of the disease, I should call involved. Branches from this ganglion are distribit nervous catarrh. I do not know that it has ever uted to the lining membrane of the nose, soft palate, been called by that name, but it has not been gener- and the end of the Eustachian tube. The motor ally conceded, until recently, that the malady was root of this ganglion is derived from the facial, and essentially a nervous one. Perhaps a better name the auricular branch of the pneumogastric nerve than the one I propose could be found, if one should unites with the facial. Thus is established an intiinsist that technical terms only, such as neurasthenia, mate connection between the nervous supply of the should be admitted into medical nomenclature. But nose, throat, Enstachian tube, larynx, and bronchial tubes; and the explanation of the occurrence of cate both the true nature of the disease and the prominent symptoms which characterize it. The term irritation is made clear. It becomes evident, then, hay fever does neither; for while hay, in common if we study the disease from anatomical, physiologiwith many other kinds of pollen, dust, fumes, gases, cal and clinical standpoints combined, that there is and so forth, may excite attacks, many suffer from but one theory which satisfactorily reconciles all the paroxysms into which neither hay nor fever enter as known facts. According to that theory three cona factor, either causative or symptomatic.

subject I discovered that hay fever was considered a tres; secondly, a hyperasthetic condition of the perconundrum by a part of the profession and a myth by ipheral extremities of the nerves; and thirdly, the the remainder. By the paucity of the literature of the subject it was evident that medical authors did not mean to write most concerning that of which they the fact that it is the only one which satisfactorily knew the least. From the time of Bostock's discovery of the disease in 1819 to the year 1876, the na-

past ten years, however, it seems to be well established that its proper classification is among the neuroses. During my first experience with this intensely distressing disease, I followed Helmholtz's suggestion to destroy the vibrio-like bodies which inhabited the nasal secretion, and which he supposed caused the attacks, by the inhalation of a nebulized solution SURGEDN TO THE SOUTH SIDE FREE DISPENSARY, AND TO THE ILLINOIS of quinine. This gave relief. I next tried the effects of administering the same drug internally, and Gentlemen: - America has probably a hundred was rewarded by even more satisfactory results. thousand sufferers from hay fever, a number about Certainly the infusoria in the nasal secretion were not destroyed by the internal use of half a dozen

The susceptibility must exist in the nervous centhis vast army of unfortunates. After several years' tres as well as in the end organs of the nerves. study of this disease I shall endeavor to present a cor- Otherwise there is left no rational explanation of the rect account of the present status of our knowledge fact that heretofore internal medication by nerve concerning its pathology and treatment. The sev-tonics and sedatives have proved more serviceable eral names which this affection bears are unfortunate than local treatment. This conclusion seemed to ones, masmuch as they do not adequately express be verified by the fact that it had been demonstrated are but a few of the large number of exciting and palatine ganglion, which shows the intimate relation sustained between that sympathetic nervous centre If I were to invert a name for it, both simple and and the nervous supply of the mucous membrane ditions are requisite to the existence of a paroxysm In my first efforts to gather information on this of hay fever: First, abnormally sensitive nerve cen-

ture of this affection seemed to be but ill-understood, alike exposed to the same irritating ingredients of In the light of the accumulated knowledge of the the atmosphere; why ablation of the spheno palais as sudden in its invasion as asthma, striking one at any moment of day or night, awaking one from sound slumber, or taking one unawares during the pleasant engagements of the day, and leaving one as quickly and mysteriously as it came.

Moreover, some functional nervous diseases are transmutable, one into another. I have witnessed cerebral hyperæmia decline and disappear as hay fever superseded it, and after several years' duration the hay fever has in turn been displaced by asthma, as spasmodic and characteristic in its nature as the hay fever itself. Simple asthma may not only supplant, but may complicate it, constituting hay asth-

ma proper.

An error which has been as popular as the Helmholtz theory is the supposition that this affection is necessarily limited to any particular season. enervating effect of extreme heat in summer is an important predisposing cause, as affecting the nerve centres; but in the colder seasons the depressing effect of the heated atmosphere of overcrowded, illventilated rooms, and any causes which render the nerve centres more sensitive, and consequently less able to resist impressions from external irritants, are to hay fever as does the heat of summer.

that I have not limited the hyperæsthetic condition of the peripheral nerve fibres to those which terminate in mucous membrane alone. To demonstrate the correctness of my implied hypothesis it is necessary only to cite those cases in which paroxysms are light, irritating the retina, or an attack provoked by the nerves. irritating the scalp with a comb, or shaving the upper lip, or a draught of cold air chilling the back of the neck, or hands, or feet. A reciprocal relation exists that of the internal organs, but more especially affecting the mucous membrane lining the air passages. Let the surface of a hay fever patient become

tine ganglion causes a severe catarrhal condition of profuse discharge of nasal mucus, suffused and tearthe nasal mucous membrane; why nervous depres- bedimmed eyes, photophobia, a rush of blood to the sion, or exhaustion (neurasthenia) predisposes to hav head and face, severe headache, complete occlusion fever attacks; why tonics and sedatives to the cen- of the nostrils, nervous exhaustion, and such a destral nervous system alleviate, abort, or prevent at-tacks; why sudden mental excitement may prevent ble to a wrecked vessel in a terrific storm. But in an impending paroxysm, or abbreviate one after its this violent agitation of the body I have discerned a onset; why the disease generally attacks one at pre- blessing in disguise, for it restores the balance of circisely the same time, lasts the same length of time, culation to the skin, the temperature rises, the sudorand disappears at the same time on each recurring iferous glands resume their activity, and the skin is season; why the class of people who suffer from again bathed in perspiration. At this juncture the this affection are the nervous, brain-working type, vicarious suffering of the respiratory surface is reinstead of the phlegmatic, slow-going kind, who may lieved, and the normal equipoise of functional acbe more exposed to the pollen of the field or the tivity ensues. In one who suffers from the asthmatic dust of the work-shop and street, but whose minds form of hay fever, to the symptoms already enumerare strangers to the nervous stimulation and mental ated should be added the characteristic symptoms tension of the professional man; why the paroxysm of asthma proper. These alone make one's lot hard enough, but when added to the so-called aristocratic disease, present a highly colored picture of the refinement of torture.

The truth of the third proposition is self-evident, and the number of irritants, such as pollen, dust, matches, and so forth, which directly excite attacks,

would be too extended to enumerate.

The treatment of hay fever is preventive and palliative. No curative treatment has heretofore been discovered. The preventive treatment has compelled sufferers to become fugitives from the air breathed by common mortals, and to seek mid-ocean or the tops of mountains in their seasons of distress. The most important palliative remedies are quinine, chloral, and morphine internally, and quinine, chloroform, and carbolic acid by inhalation. In my experience quinine has given more relief than any other remedy; but there is great danger of impairing the hearing by the use of large and frequently repeated doses, for it causes congestion of the middle ear, and probably of the labyrinth. The ideal curative treatment would be that kind which addressed itself to the seat of the disease, which resides in the central nervous system. Narcotics are the only known remalso provocatives, and bear the same causal relation edies which render it entirely oblivious to the presence of the many harassing irritants which insist on In stating the second condition, it will be noticed being recognized, and which appear to have the same relation to the nervous centres that persistent officeseekers do to the President. But since it might be objectionable to keep patients in a comatose condition during the weeks or months of their hay fever seasons, the only medicinal treatment left to our produced by the rays of the sun, or other bright choice is that which affects the peripheral termini of

Cocaine has grown, mushroom-like, into a wonderful popularity. Let us hope that its usefulness in hay fever may not prove as ephemeral as its growth. between the capillary circulation of the skin and Unfortunately, those drugs which are most influential for good are also most disastrous in their effects when their use is not directed and limited by skill. Cocaine is no exception to this rule, and the sooner chilled, the skin anamic, the perspiration checked, the knowledge of its harmful properties is widely and immediately there follow a corresponding hyper-disseminated the better it will be for all who may emia of the mucous membrane of the respiratory have occasion, or invent an excuse, for its use. Sepassages, an increased activity of the muciparous rious results have attended its use in the nasal cavifollicles, exquisite tickling and painful itching in the ties. Being a powerful local anaesthetic, its advent nose and pharynx, succeeded by violent sneezing, has been hailed with enthusiasm by all that large class

but its benumbing effect lasts but one or two hours, as well as its topical effects. or less. In order to extend its influence over a conoften proved effective.



Pocket Insufflator.

of sufferers whose sensitive mucous membranes make is constructed after the plan of my larger office them miserable. Many who used cocaine during insufflator, except that in the latter a rubber bulb their attacks last summer believe themselves to be supplies the place of the mouth. This method of cured. But let us look facts fairly in the face and applying cocaine in powder is simple, effective state candidly truths which we cannot evade if we and easily practiced even in public assemblages, would. Can we expect the cure of a disease, the without making one feel offensively conspicuous. I perpetuity of which seems coextensive with the subject's life, by a remedy the effects of which are trantal that many cases have been wonderfully relieved by sitory? The rapidity of action and the intensity of this treatment. In compliance with the request preanalgesic power of cocaine are indeed remarkable, ferred by some of you, I shall speak of its general

When applied to the mucous membrane of the siderable number of consecutive hours or days, it is nose, a four per cent. solution produces, in a few secnecessary to repeat the applications of a four per onds, a sense of numbness which grows more marked cent. solution as often as once in an hour or two, as the applications are repeated. If they are reand even at briefer intervals. The consequence is newed at intervals of five minutes for fifteen or twenan absorption of so large a quantity of the drug as ty minutes, at the expiration of that time the mucous will produce its physiological and even toxical ef-fects. This, together with the fact of its evanescent fined sensations, unless the instruments enter very character, would seem to render it highly improbable deeply into the sub-mucous tissue. If sensations that cocaine will ever prove to be a cure for hay and pain return soon after an operation it may be fever. As a palliative it acts like magic in some obliterated again by a fresh application. Very soon cases. At first I employed a four per cent. solution after cocaine has been applied, the membrane looks of the hydrochlorate, applying it to the sensitive pale and turns almost white, so anaemic does it bepoints by means of surgeon's cotton twisted on a come. It retracts in a marked manner even if it holder. That failed to relieve, and excited parox- were swelled before the application. But I have reysms of sneezing. This result was due to the fact peatedly observed a still further effect which I have that too little of the solution was conveyed to the not seen mentioned in any account of the action of parts. Afterwards I used the same solution with a cocaine. Although its primary action produces ancamel's-hair brush, taking pains that the parts were æsthesia and anæmia of the membrane, there occur first thoroughly cleared of mucus, and immediate secondary effects which will materially impair or derelief was obtained. A two per cent. solution has stroy its usefulness in some cases. These secondary effects are great swelling and hyperæsthesia of the I have more recently used a six per cent, powder parts treated, and these symptoms are even more of cocaine and sugar of milk, in an insufflator which prominent than they were before the drug was applied. I have devised for hay fever patients, for self-treat. This unhappy result I observed in the treatment of a ment. The instrument is small enough to carry severe form of hay fever, and in consequence of the readily in the vest pocket, and can be used easily augmentation of all the symptoms after the effects of the instant an attack seems imminent. The insuf- the cocaine wore off, I was compelled to abandon that flator consists of a two-drachm vial with a stopper treatment. Several cases have come to my knowlthrough which pass two vertical tubes. These do edge in which this action of cocaine has ensued. It not extend below the under surface of the stopper. seems to act upon the vaso-motor nerves, independ-Above it they are bent in opposite directions. To ently of the central nervous system. The blood-vesone of these bent extremities is attached a rubber sels are at first constricted, then dilated, and generally tube, to the free end of which the mouth is applied. resume their normal calibre. In the exceptions A slight puff of the breath is sufficient to send the which I have mentioned the dilatation remained for powder through the opposite tube into the nasal cay- hours, and in one case persisted for a number of days, accompanied with varying degrees of hyperæsthesia. The latter symptom was very acute for several hours succeeding the anæsthetic effects, but gradually diminished until the membrane became no more sensitive than it was before the treatment. The secondary swelling closed the nostrils so completely that no air could be forced through them. In sleep it was necessary to breathe through the mouth, which occasioned extreme dryness of the throat. The breath had to be held while eating, and with every act of swallowing the air was forced into the Eustachian tubes, and even particles of food seemed to take the same course. No one can realize the importance of open nasal flues until he attempts to eat, ities, when the instrument is in position. The tubes sleep or talk with them closed. Cocaine would reshould be made of vulcanite, and the vial should lieve this secondary tumefaction temporarily, but it not be more than two-thirds full. The instrument would return after each application. Fortunately

there seem to be but few who are so peculiarly af-prophylaxis against blennorrhwa neonatorum, took fected by this remedy. I have employed it in many place in the short period of six years, during which cases of various diseases in which I have observed I was clinical assistant. By this circumstance I had no disagreeable consequences, and shall be glad to the opportunity to study these points in an exact

The physiological and toxic effects are somewhat ble to do in private practice. the former has been mistaken for the latter and treated for opium-poisoning, with recovery.

The new surgical treatment of hay fever, which consists in canterizing the sensitive areas, is too rewith this phase of the subject. But I cannot do so here. with fidelity to the profession and to this class of patients without warning them of possible consequences. This treatment may precipitate paroxysms of veritable asthma. In fact, two applications of the galvano-cautery, under cocaine anæsthesia, have superinduced true asthma without curing the

hav fever.

thought for the morrow, for that great army of sufferers would cast their golden treasures at his feet, and profession and people alike would erect to his memory a monument more enduring than bronze and more lasting than stone.

139 Centre Ave.; Chicago.

# ORIGINAL ARTICLES.

# EXPERIENCES WITH THE AXIS-TRACTION FORCEPS.

BY T. FELSENREICH, M.D.,

DOCENT OF MIDWIFERY AND GYNACOLOGY IN VIENNA.

I consider it very fortunate that the years of my service as assistant just coincide with the time in above the *conjugata*. A large *caput succedaneum*, which great progress was made not only in gynecology, but also in midwifery. The thorough use of narcosis. Alexander Simpson's axis-traction forceps. antisepsis, the entire reform of the sectio Casarca by the method of Porro, the modification of the forceps the method of Porro, the modification of the forceps for the higher-lying head, suggested by Tarnier, the seige has altered decidedly his opinion about this instrument.

relate the gratifying results obtained at another time. manner, alone and with colleagues, as it is not possi-

similar to those of theine and caffeine. Cocaine is I operated originally with one of the first patterns a powerful poison affecting the nervous, respiratory, of Tarnier's forceps. The result was then bad both for circulatory and vaso-motor systems. In small doses mother and child. But we had chosen severe cases, it is a prompt and decided cerebral and cardiac stim- very wrongly, for this is the way to discredit even a ulant without inducing coma. The pulse and respir- good and useful method in the first stage of its de-ations are accelerated, the intellectual processes velopment. But even these experiments with Tarlivickened and exhibarated, and the mental vision de-mier's complicated forceps were sufficient to prove cghted with agreeable hallucinations. Diplopia, thoroughly the correctness of his principles. For aonstipation, muscular tremors, vertigo and nausea Vienna it was principally important that Prof. Gustav gre a series of symptoms attending larger doses. Braun should come to the same opinion and decide Still larger doses produce contracted pupil, complete to follow the further modifications of this forceps and paralysis of sensibility, tetanic spasms, and death, to try their value. Without G. Braun we probably It does not produce muscular paralysis, but does should not know about the axis-traction forceps pracparalyze the entire posterior columns of the spinal tically more than that which Kucher imparted to us. cord, and the entire system of peripheral sensory. The adversaries of Tarnier and his principles were to nerves. Accounts of cocaine-poisoning disagree as be found among the older and younger obstetricians. to the condition of the pupils. In some cases they Many of them condemned his forceps, and condemn are said to have been widely dilated, in others con- it still, partly without knowing what the matter tracted, as in opium-poisoning. Cocaine placed in in question is, though French, English and German the eye dilates the pupil widely. However, cocaine-physicians have tried to cultivate Tarnier's ideas, poisoning simulates opium poisoning so closely that and the patterns have become more and more simple and serviceable. The same fate befell the simple prophylaxis against blennorrhwa neonatorum. An assistant who had been during several years in service, declared five years ago that he knew a clinic where cent to have afforded permanent results. Not wish- no blennorrhwa neonatorum could be found, although ing to prejudice against the operation those to whom the prophylaxis had not been introduced at that time. it might prove beneficial, I willingly part company Only the method of Porro found universal approval

In spite of these adversaries, A. R. Simpson's axis-traction forceps found here in Vienna a place where they were impartially tried. When I first saw the forceps the delicateness of the blades and the spring-like consistence of the material struck me. A pair of forceps, devised especially for a head which is out of proportion or high-lying, ought to have at least He who finds a cure for this disease need take no the same firmness and the same size as the common forceps. The otherwise very simple construction of the axis-traction forceps, and the employment of the form of our "Schulzange" (by J. Y. Simpson) in the construction of it, induced Prof. C. Braun to allow experiments with it. | loperated (February 24, 1882) with A. R. Simpson's forceps the first time in his presence, and with very satisfactory result.

Case.—Prot. No. 536, 1882. The woman, 33 years old, III-para. Outside, the forceps had been tried twice, without the child being extracted. Flat pelvis, conjugata vera 8 cm. The exhausted uterus was sunken to the right side. The tympanitic percussion sound reached up to the linea alba. Temperature and pulse normal. The heart-beats of the child accelerated, the head fixed, its greatest circumference Easy operation with few tractions. Moderate atony

of the uterus and hæmorrhage, caused by the necrosis. Disinfection; massage; ergot.

of March.

when discharged.

These trials with A. Simpson's forceps and the comin Edinburgh, so that someone had the extraordiat the entrance of the pelvis was proved to me after nary kindness to send me from there a much more the first trials to be sure, only by using a firmer and solid instrument, for which kindness I now find the more safely constructed pattern. The traction conopportunity to express publicly my thanks.

two cases of narrow pelvis. Therefore it was not transforming our firm, excellent "Schulzange" of J. Y. possible to try sufficiently the instrument in cases Simpson in such a manner that they would not be for which it had been devised, viz.: on the high-lying changed in their approved form for the pelvic-exit, but head. With a larger number of cases of narrow that they could be changed into an axis-traction for pelvis A. R. Simpson undoubtedly would have got ceps after A. Simpson's pattern by affixing the tracthe opinion that the forceps only sufficed for the tion-rods to them. In this manner they could afford lighter cases, but that it cannot cause the head to also the advantages of the latter forceps. accommodate itself to the disproportion of the pelconstructed as the Viennese pattern ("Schulzange"). in Vienna. The adjoined diagram, taken from Leireliable instrument.

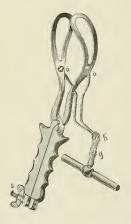
exaggerated. Drawing the screw too close naturally J. Y. Simpson. It is important that the traction-rods causes damage, as well as the violent compression of should only be made from one piece of steel. They the gaping handles of the common forceps, if they have nowhere a soldering. If this be not the case, are adjusted to the high-lying head. It is not necesthey would not accomplish their purpose, and would sary to mention that one must loosen the screw and easily break at the operation; as it happened to me the handles of the forceps during the pauses between with the upper button of one traction rod. The fixathe tractions, just as it is the rule in using any other tion of the traction-rod on the blade of the forceps forceps. The head recovers from the compression by the simple metal button is on this first pattern still under otherwise favorable circumstances. The screw too loose and too unsteady. Also the curvature of is only to effect the fixation of the forceps and not the traction rods is unnecessarily strong and could the compression of the head. It is therefore con- be flatter as in Sanger's forceps. The joint of the 

For the extraction with the axis-traction forceps only one hand is required. If the power of one Child living; weight 3500 grm. Patient was dis- hand does not suffice for the traction, this shows, accharged as usual on the eleventh day. The mother cording to my experience, that there is such a disgot pleuro-pneumonia without connection with the proportion that the operation with forceps cannot puerperium, and left the hospital healthy on the 17th result favorably to mother and child. The successful traction with only one hand is the best proof that Dr. Pritze and I operated with this instrument in much power is spared in using the axis-traction forsix other cases. Four were small pelvis cases; head ceps in consequence of the proper direction of the in all cases high up and fixed. In the two cases with traction. This is also the best affirmation and proof normal pelves the children were large, the one (4270 of the correctness of Tarnier's ideas. Even the grm.) profoundly asphyxiated, the reanimation was most skilful operator, who best knows the pelvis, not successful; the other (4400 grm.) was born living. cannot estimate all factors which are called in In two cases the extraction with A. Simpson's forceps question and often incessantly change (the narrowwas vainly attempted, so that craniotomy was done, ness and shape of the pelvis, the size, hardness, In one case (normal pelvis, child 4270 grm.) the position and accommodation of the head). Therehead was drawn with the axis-traction forceps fore he cannot constantly draw his instrument in the down to the perineum. At the exit of the head the axis of the pelvis. If we wish to follow the latter instrument was about to slip off, so that the last part, surely and avoid every injurious direction of the of the extraction was performed with C. Braun's for-ceps (J. Y. Simpson's forceps, obliterated fenestræ find, so to speak, the shortest way through the pelvis and handles, covered with hard rubber). In another by themselves, and which leave to the head the case the button on the right traction rod was broken greatest liberty of movement during the tractions, during the tractions, so that the operation was fin- By this circumstance the head attains in its progress ished with the common forceps. Three children through the pelvis a certain independence of the living, one asphyxiated, two still-born (craniotomy). direction of the traction. This is attained in a differ-Three puerperia passed normally. Three women ent degree by the axis-traction forceps, the name of became ill with a light encolpitis, but were healthy which appropriately was changed by Breus' to "pelvic-entrance forceps.'

The usefulness of the axis-traction forceps of Alplaints about their faults became apparently known exander Simpson for the extraction of the head fixed trivance was, on the contrary, for the pelvic-exit The sixteen cases mentioned by A. R. Simpson in nothing but a disagreeable addition. Like Sänger his paper on the axis-traction forceps include only with the forceps of Busch, 1 had the intention of

Executing this intention I came, when I interrupted He should have combined the axis-traction my clinical activity, only to the first pattern, after apparatus with the forceps of J. Y. Simpson, as firmly which several specimens were constructed by Leiter In this way he would have got a well constructed and ter's catalogue, releases me from giving an exact description. The size and the proportion of the The disadvantage of the fixation screw is usually parts are perfectly equal to those of the forceps of

attached. This really very simple manner of form- adheres closely to them. ing the traction-rods I should like to have changed in another pattern, perhaps by the contrivance of head and must open the screw between each traction. Tarnier, as it is brought in use again by Dr. Neale. could perhaps be used, if one would correspondingly ally the pull of one hand suffices. change the ends of the traction-rods. In short, it would the forceps for common use. Therefore I omitted a description and added to the diagram in Leiter's literally in order to make the report complete.



FORCEPS AFTER SIMPSON, MODIFIED BY FELSENREICH.

The axis-traction forceps were constructed with the intention to give to every skilful obstetrician the possibility of using such an instrument on the highlying head, without requiring another forceps for the common cases. The forceps consist of the common forceps of J. Y. Simpson, a compression-apparatus s, two traction-rods, which can be attached at  $\ddot{o}$ , and a transverse handle grasping the traction-rods at k, which is movable to the sides by a joint at g.

#### DIRECTIONS FOR USE.

1. One may use the forceps without compression and without traction-rods in the manner till now used for the head (face or vertex), being on the perineum or in the middle of the pelvis.

2. If the head is high up, each blade is mounted with the proper traction-rods, this is taken with the handle of the blade, and the blade is then applied. After having applied the right blade one pushes its traction-rod over the left handle. Then the compressorium and the transverse handle is attached, with which one makes the test-traction and the trac-

traction-rods consists of two metal grooves, in which tions themselves. One follows in the direction of the two button-shaped ends of the traction-rods are the tractions the movement of the solid handles and

3. One must avoid a too strong compression of the

4. This instrument does not extend the indication Certainly this gives more firmness to the traction ap- for the use of the forceps on the high-lying head. paratus. Also the endplate of Sänger's instrument One must be warned of using more power. Gener-

l operated with this instrument, which is, as I menbe necessary to change much before one could advise tioned before, in many respects imperfect, in five cases; four times in cases of narrow pelves. The shortest conjugata vera was 8 cm. Three children catalogue a direction for use which may follow here were born living, two asphyxiated. On child was reanimated and could be dismissed healthy on the tenth day. The other died the day of the extraction in spite of reiterated trials of reanimation. The weight of the children was 3350-3750 gram. The puerperium of the five mothers (one primipara and four multiparæ) was in every way normal. Four mothers were dismissed at the same time with their children.

The number of the cases is small, but the results for mother and child very good. The circumstance that the children were living shows certainly that the compression-screw, if correctly used, is not danger-The name compression-screw is unluckily chosen; better is fixation-screw. The use of the first name itself would cause a prejudice. In spite of these favorable results for mother and child I cannot advise the instrument for common use. Only a skilful and cautious operator will find the right measure in every respect, and the instrument requires a constant control. The construction of the pelvic entrance forceps by Breus is simpler corresponding to its special purpose. One can better advise this forceps for a common application. Also, with this forceps, as with all similar instruments, the operator must moderate his powers very much. The forceps is not constructed to overcome every obstruction caused by disproportion. One can hurt mother and child with too much force applied in the right direction as in other cases, only perhaps in another place. I have seen infraction of the parietal os on the head of the child after the use of a pelvic-entrance forceps, because the forceps trial had been extended too far. Every good thing turns, if used immoderately, to bad.

The difference between the modifications of Felsenreich and Neale are not great, and certainly not essential. By my communication, which would be otherwise useless, Dr. Neale learns the advantages and faults of his and my instrument, so that he perhaps will be able to avoid the latter and to devise a pair of forceps which are proper both for the pelvicentrance and the pelvic-exit. If he succeeds, then he has certainly fulfilled a want of the practical physician, for our instrumentarium scarcely allows an increase by a separate pelvic-entrance forceps. would congratulate him with pleasure, and would be very glad that his sojourn at the University of Vienna should bear such beautiful fruit. Dr. Neale's industry and zeal for gynecology will always remain a very pleasant memory.

Vienna, December 6, 1885.

<sup>&</sup>lt;sup>3</sup> Verhandlungen der gynecol, Section der 55, Versammlung deutscher Natur orscher und Aerzte in Eisenach.

# INTUBATION OF THE GLOTTIS FOR MEMBRANOUS LARYNGITIS.

BY E. FLETCHER INGALS, M.D.,

PROFESSOR OF LARYNCOLOGY IN RUSH MEDICAL COLLEGE, AND PROFESSOR OF DISEASES OF THE THROAT AND LHEST IN THE WOMAN'S MEDICAL COLLEGE, CHICAGO.

the profession by reports of several cases in which we decided in favor of the new method. I accordthe instruments with which this operation is per- to the small calibre of the tube, it was not so free as in procedure, though several before him have experi- per cent, better than before the tube was introduced. debted to Dr. F. E. Waxham, of this city, for his patient was cheerful and breathing comparatively enthusiasm in trying the new method, which has easy, but later the breathing became more rapid, brought it fairly before the profession. With unusual numerous mucous râles were heard over the upper modesty Dr. O'Dwyer seems to have experimented part of the chest, the pulse, which had been nearly a long time before any outside of his immediate circle normal, became feebler and more frequent, and matof acquaintances knew of his efforts; it being his ters grew steadily worse until the child died about desire to perfect the instrument before publishing thirty-nine hours after the tube had been introduced.

O'Dwyer's instruments, and he was so encouraged by the intubation." In the first of these cases the result his success that he has used them to the exclusion of was as good as I could have expected, but in the tracheotomy until he has treated a number of cases second I believe that a proper opening in the trachea by this method, eleven of which he has published. would have greatly improved the child's chances if it At the time of his last writing two cases had recov-could have been properly cared for after the operation. ered and two others were apparently convalescent. His experiments demonstrate that there is a field of cases, two of which, aged respectively 31/4 and 31/2

very young children.

utes breathing became easy, the patient seemed per- ation itself, render this procedure, as it seems to me, feetly comfortable, and it soon fell into a natural sleep. a most important advance in the treatment of diphtained by tracheotomy, and the subsequent course of parents would not consent to having the child "cut," had been introduced. There had been no choking necessary, tracheotomy might be performed. in the meantime. The tube was removed, after death, and found perfectly free.

a half years of age. The parents had, two or three extension of the disease thereby materially lessened. croup, and therefore were anxious to do all they could trachcotomy need not hesitate to introduce one of croupy symptoms a day or two before I saw him. I all physicians are supposed to possess, and with

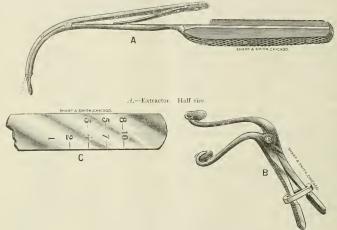
found the eyes bright, the skin bathed in perspiration, cheeks, lips, and nails becoming livid, and recession of chest walls. The pulmonary signs were normal, and there was no evidence of diphtheria. Had the environments been good, I should have expected to save this patient by tracheotomy, but owing to the Considerable interest has recently been excited in poor surroundings, and the certainty of poor nursing, tubage or intubation of the glottis through the natural ingly introduced a tube, 21/4 inches long, such as is passages has been practiced as a substitute for trache-recommended by Dr. O'Dwyer for children of this otomy. We are indebted to the ingenuity and per- age. The breathing was immediately relieved, and sistence of Dr. Joseph O'Dwyer, of New York, for after about ten minutes became easy, though, owing formed, and for the first practical use of this novel health. At the time it seemed to me about seventy-five mented in the same direction. We are further in- Dr. Todd reports that for about twenty hours the Dr. Todd says, "I think that life was somewhat pro-In April, 1885, Dr. Waxham procured a set of Dr. longed and the suffering considerably mitigated by

I have seen reports of only five of Dr. O'Dwyer's usefulness for the new operation, especially among years, recovered. It is too early to judge of the actual merits of this operation by the results in the Recently Sharp & Smith, of this city, obtained for few cases published, but they clearly demonstrate its me a set of Dr. O'Dwyer's improved instruments, practicability and no small degree of usefulness. I which I have used in two cases. The first of these believe that for children under 31/2 years of age it is was a child about two years of age, to whom I was preferable in nearly all cases to tracheotomy, but for called by Dr. A. M. Stout. The child had been suffer-older children the tubes thus far furnished are not ing from diphtheria for several days, and when I saw it large enough to admit a sufficient quantity of air, and had passed into the third stage of diphtheritic laryn- therefore in severe cases life may often be lost when gitis. There was lividity, constant dyspnœa, stridor a timely tracheotomy would have been successful; and inspiratory retraction of the softer portions of but notwithstanding these objections, the ready conthe chest walls. As we could get no assistance, Dr. sent to this operation where tracheotomy would not Stout held the child while I introduced the tube, which be allowed, the ease with which the tubes may be inwas done with little difficulty. After five or ten min-troduced, and the freedom from danger in the oper-The relief here was as great as would have been ob-theritic laryngitis and membranous croup. Often the case was the same, in all probability, as it would as they express it, who would at once assent to this have been if the trachea had been opened. Breath- method. Often there are circumstances which induce ing continued easy for about thirty-six hours, then or compel the physician to defer tracheotomy until it there was a gradual failure of the respiratory function. is too late, in which cases, if this method were em-The child died easily about forty hours after the tube ployed, several hours might be gained, and then, if

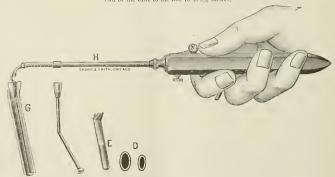
The ease with which the operation may be done will prompt its early adoption, and thus carbonic acid The second case was a strong boy about five and poisoning may often be avoided, and doubtless the years previously, lost one child from membranous Again, many who might well hesitate to attempt to save this one. The boy had been taken with these tubes; for with a knowledge of anatomy which

reasonable care not to exercise too much force and not open quite wide enough for children over three to use due dispatch, no possible harm can come. or four years of age. There are five laryngeal tubes, What though the tube were introduced several times which range in length from 13/4 to 2½ inches. The into the  $\alpha$ sophagus, it could be easily withdrawn by calibre of the largest and smallest of these is shown the attached thread, and it might finally be lodged in in the cut, and is seen to be only  $\frac{1}{2} \times \frac{1}{2}$  of an inch its proper place. There appears to be very little in the largest, and not more than half this capacity danger of the tube slipping through the glottis, and in the smallest. Each tube has at its upper extremeven if it should it is so long (reaching, as it does, ity an eye for the silk thread used when it is being to within half an inch of the bifurcation of the tra- introduced. There are jointed obturators which fit chea), that there would be no special danger from it, each of these tubes and hold them while being inand if it could not be removed per os it might readily troduced. They are jointed in order that they may be extracted after tracheotomy.

be more readily withdrawn when the tube is in the



B-Gag. Half size. C-Gauge, actual size, excepting that the end is shown broken off. The distance from the end of the tube to the line to is 2½ inches.



H—Applicator screwed into the obturator, which is in the tube  $G_c$  ready for insertion. The artist, however, has made a mistake and shown the tube G with its back edge in front. E—Smallest tube, bulging on the sides at the middle. E—Obturator. D—Actual size of the opening in the largest and smallest tubes,

five laryngeal tubes, an applicator, extractor, and a ator is of a size and shape to perfectly close the open-gauge. The gag for keeping the mouth open is all ing in the tube, and prevent injury to the soft tissues that is needed for very young children, but it does during its introduction. Its upper extremity has a

Dr. O'Dwyer's set of instruments contains a gag, | larynx. The rounded lower extremity of the obtur-

small hole, into which the applicator is screwed when the vocal cords, it is likely to be expelled and may the instrument is ready for use. The applicator is be seen or felt in the back part of the mouth. If shown in the cut with the obturator partially screwed the tube has been properly inserted respiration will sliding tube which, when the larvngeal tube has been cuts one end of the silk thread, passes his finger beinserted, may be crowded forward by the thumb- hind the epiglottis, and holds the tube while the piece to release the obturator so that it may be with thread is withdrawn. Subsequently, if the tube be drawn, and leave the tube in position. The instru- of sufficient size, the child may be expected to breathe ment for removing the tube is constructed on the easily, unless there be extension of the disease. principle of a dilator. In using it the closed blades There is little probability that the tube will beare passed into the end of the tube: the lever is come stopped by the secretions, but if the breathing then pressed down by the forefinger, when the open- again becomes obstructed the tube must be removed ing blades impinge so firmly against the sides of the and examined. Unfortunately, the tube is sometimes tube that it is held securely. This has been found expelled by violent cough; and in cases which the more convenient than the forceps which were first physician cannot closely watch lives may be lost by employed, and it has the additional advantage that this method which could have been saved by trachit cannot injure the soft tissues. The gauge is de- eotomy. signed to determine the size of the tube to be used in a child of any given age.

arms, and then held upright in the nurse's lap. An less than four or five days, and it is not uncommon assistant holds the child's head. The gag is then for the obstruction to remain ten or twelve days. introduced between the jaws, far back on the left Therefore, if no unfavorable symptoms arise, I would side of the mouth, and opened as wide as need be, advise that the tube be left four or five days before but not with great force. The physician, sitting in removal; then if dyspncea supervenes, it must be front of the patient, passes his left index finger over re-introduced, and it may have to remain ten or the base of the tongue and down behind the epiglot- twelve days. No anæsthetic will be needed for the tis, and with it guides the end of the tube into the introduction of the tube, but one will occasionally

glottis. Dr. ()'Dwyer recommends that the handle of the applicator be held near the child's sternum until the present standpoint, it seems well adapted for the end of the tube has reached the pharyngeal wall; but I think it will usually be found more convenient to hold it to one side. The end of the tube having reached the pharyngeal wall, it is directed downwards and forwards along the index finger into the larynx. dren in which from any cause the physician wishes This will not be found difficult, but the infant's epi- to defer the operation of tracheotomy. glottis is so small and flaccid that the operator may not be able always to recognize it, though he will cannot be obtained. have no difficulty in detecting the larynx as a whole, which, except that it is slightly irregular, feels much not be secured. like the end of one's little finger. The operator should not expect to detect the opening of the glot-less than 10 years of age. tis, but must be guided by his anatomical knowledge to pass the tube into the centre of the larynx. Unless he is careful to carry the handle of his instrument high and thus bring the tube as far for- the treatment of various forms of laryngeal stenosis ward towards the base of the tongue as possible, the in adults. tube will be passed into the cesophagus. While it is desirable to accomplish this portion of the opera-instruments for this operation are far preferable tion as quickly as possible, it should not be done to any of the numerous instruments for rapid trach with too great haste. Ten or twenty seconds, which eotomy. I can see no good reason why the tubes is a long time for this portion of the operation, may for older children may not be made much larger be taken without danger. If the tube is not then than they now are, and if this be practicable the introduced it should be removed for a minute or greatest objection to this operation will be removed; two to allow the child to breathe, and then the op- however, there will be cases in which the tube may eration may be repeated; but if the tube seems to be be coughed out, and in which, if the physician leaves in the proper position, whether the operator is cer- the patient, the child may strangle before he can he tain of it or not, the slide should be crowded for found to return the tube. In such cases the physiward so as to disengage the obturator, which is then cian would sometimes be culpable for not having withdrawn. Some cough will occur at once, and if done tracheotomy, and thus insured an opening for the tube has not been inserted into the larynx, or if respiration. it has not been passed down so that the rim rests on The ease with which this method can be carried

The stem of this instrument is covered by a become easier in a few minutes. The operator then

The tube may remain in the larynx as long as necessary to secure perfect respiration, as it causes In performing the operation the child should be little if any irritation. There are few cases of memwrapped in a sheet or shawl, which will pinion the branous croup in which the glottis will be free in Therefore, if no unfavorable symptoms arise, I would be required for its removal.

Looking at the intubation of the glottis from our

following cases:

1. For diphtheritic and croupous stenosis of the larynx occurring in children under 312 years of age.

2. For cases of these same affections in older chil-

3. For those cases in which consent to tracheotomy

4. For those cases in which proper nursing could

5. For severe cases of spasmodic croup in children

6. For simple stenosis of the larvnx, not diphtheritic, in children.

7. With proper sized tubes it might be of value in

I have no hesitation in saving that Dr. O'Dwyer's

out will doubtless secure its adoption in a large num- faces until it is convenient that they be discharged. avail, and thus many lives may be lost. I believe, its proper place among the agencies for relieving sufsuch confidence in the operation that I think every community should have a set of these or similar instruments in the hands of some physician who has the good judgment to know when to use it.

64 State St., Chicago, January 27, 1886.

# HABITUAL CONSTIPATION IN WOMEN—ITS CAUSES AND EFFECTS.1

BY H. J. HARRIMAN, A.M., M.D.,

OF REVERE, MASS.

strange and unconquerable indifference to such a depression are common. state keeps away all except those who are compelled this paper. With constipation, considered as a serious trouble, they are inclined to be skeptical.

Is this state a cause, an effect, or simply an accomto the writer that its relation is that of a cause, and it will be so treated. The physiological functions of can fail to act in its normal way without influencing, either directly or indirectly, the action of every other. This influence may be exerted through the general chanically. In the case of failure to empty the lower cervix to bend sharply forward." Speaking of cervibowel with normal frequency, we find the pernicious cal flexion he says: "It is generally produced by influences of such a state exerted in each of these pressure directly exerted upon the uterus by tight three ways.

Of the constitutional effects of such a state mallower bowel. The colon, especially the sigmoid flexure, is intended to act as a depot for the retention of

ber of cases in which tracheotomy would not be ad- Normally its absorbing power is limited. Its excrevised, and thus it may be the direct cause of saving tion consists of mucus and some odoriferous elements many lives. On the other hand, we must not forget of the fæces. When, however, the excrement is rethat these very features are a source of danger, lead-tained for days, and it may be for weeks, the functions ing the physician to rely on this method in cases in of this organ are so perverted as to give rise to pawhich nothing less than tracheotomy could be of any thological processes. The fluid elements are absorbed into the circulation to be excreted by the however, that the method will do much more good other emunctories of the body; noxious gases are than harm, and that within a few years it will find generated and reabsorbed, and there is created what might be called a vicious circle by the excretion and fering and prolonging human life. Even now I have reabsorption of these noxious elements. An idea of the extent to which absorption goes on can be gained by comparing the bulk of fæces when a daily evacuation is gained, and the bulk when the bowels move but once or twice a week. In the latter case the amount is not greater than in the former.

The effects of such a state can be seen in the slow toxemia which exerts a benumbing influence on the nervous system and depresses every function in the body. Many of the low, nervous manifestations which are usually characterized as reflex are due to this poisoned state of the blood. The strength fails; the appetite diminishes and the tongue is foul; there is One of the most frequent and obstinate troubles more or less constant headache, a want of mental that the general practitioner is called upon to treat power, a constant drowsiness unrelieved by sleep, and is habitual constipation. Even the large number of fatigue upon the slightest exertion. Sleep is not recases that are thus brought into notice are but a freshing but is disturbed by dreams and nightmares. small part of those suffering from this cause, since a The extremities are cold. Hypochondria and mental

This state of the general health opens wide the door to seek advice on account of other trouble, possibly to all local troubles in the active organs of generation. the result of this state of the lower bowel. So fre- The muscles and ligaments lose their tone and yield quently is this state associated with pelvic trouble, readily to such injurious influences as tight-lacing, that the question naturally arises as to what relation heavy clothing, and indiscretions at menstrual periods. habitual constipation has to the diseases peculiar to The circulation is slow and imperfect owing to the women. To inquire into this relation and excite defective performance of the functions of the heart discussion on this practical question is the object of and lungs; and ovulation and menstruation, which nature intended should be painless processes, become symptom, the medical profession are fully acquainted, sources of anxiety and distress. Nearly all writers but of constipation as a disease per se, which may be on diseases of women agree that flexions and versions the predisposing if not the exciting cause of more of the uterus may be due, in part at least, to habitual constipation. In anterior displacements the primary influence of fæcal accumulation may be mechanical, panying circumstance of pelvic trouble? It seems whereby the uterus is forced forward upon the bladder, giving rise to troublesome bladder symptoms. In posterior displacements and prolapsus the mechanthe body are wonderfully interdependent. Not one ical influence is of minor importance, but the evil is chiefly due to pressure from muscular action while straining at stool.

Thomas says: "Fæcal impaction may possibly system, through a reflex nervous influence, or me-produce flexion of the body and frequently causes the clothing, which forces it against the concave surface of the vagina. This surface gives the impinging part nutrition and spanaemia are generally prominent, a slant forward and keeps it thus bent. Habitual This is readily understood when we consider the constipation increases this vicious curve, and the function, or rather the perversion of function of the two causes combined often result in an unmanageable form of the affection."

> Fæcal impaction may cause, or at least aggravate, menorrhagia and metrorrhagia by interfering with the portal circulation and producing congestion of the

<sup>1</sup> Read before the Gynecological Society of Boston, November 22,

experience has furnished me with a number of cases subjected during labor exerts a paralyzing influence in which fæcal impaction produced prolonged me- upon the muscle of the bowel. In addition to this, trorrhagia which was cured by its removal.

in the manner just stated.

It is no easy matter to discriminate closely between cases of long-standing constipation. the nervous symptoms due to the constitutional influences of such a state, and those due simply to reflex abdominal pains, and state of apprehension, causes influences. Vaso-motor disturbances are very frequent. Variations of temperature have also been to increase their distress. This leads them to neglect noticed. Gastralgia, ovarian neuralgia together with entirely or to slight the function of defecation. various hysterical manifestations, are often the result of a loaded colon and cured by its relief.

stipation seem to be due to a mechanical influence both medical and surgical, is so popular, the attensimply, as has already been stated. When the sig-tion of the profession might with advantage be dimoid flexure and rectum are loaded and distended rected to this state, and that more careful attention the uterus is crowded forwards and dysuria results. to the condition of the *primæ viæ* and general health. The soft and pliable uterus of girlhood may be forced would render the success of local treatment more into abnormal positions and forms necessitating sur- certain and satisfactory. gical interference. In rare cases the transverse colon has become so loaded as to be dragged from its attachments. It then descends toward the pelvis and thus increases the pressure on the organs of generation.

The causes of this unfortunate condition are not far to seek. The most of them are so well known as frequency.

pelvic viscera. The author last quoted says: "My great pressure to which the rectum and colon are the relaxed state of the pelvic viscera following labor Leucorrheea may be due to the same cause acting offers a diminished resistance to the great distension of the lower bowel which is so often discovered in

The nervous state at the climacteric, with its fugitive

Such are some of the causes and effects of this common trouble. It has seemed to the writer that Some of the pernicious influences of habitual con- in these days when local treatment of the uterus,

# MEDICAL PROGRESS.

THE TREATMENT OF CONGENITAL SYPHILIS BY to render their repetition unnecessary. John Burne, THE OLDER AND NEWER METHODS.—PROFESSOR writing in 1840, said that constipation was due more Monti, of Vienna, contributes a valuable paper on to indifference to the act of defecation than to any this subject to the Archiv für Kinderheilkunde, Band other cause. The experience of the profession to-day vi., Heft 1. Of treatment by inunction, the oldest is will, I think, verify this opinion. This cause, to-that in which blue ointment is employed. It is still gether with false modesty, indolent habits, vicious largely used; but the objection to it is that it oxidizes styles of dress and ignorance of hygiene are fully too readily in this form, and is then apt to produce appreciated by medical men. There are, however, eczema. Oleate of mercury is extensively used inin addition to these, certain causes arising from the stead of the blue ointment; and mercurial plasters anatomical structure and physiological functions of have been substituted by some, while Charcot, recomwomen which render them peculiarly liable to trou-mends mercurial soap. All those compounds are, bles of this nature. At every menstrual period the however, more or less unsuited to the tender skin of uterus and ovaries are enlarged and tender, and press, infants, the least objectionable being the oleate of to a greater or lesser extent, upon the rectum. The mercury. Dr. Monti has, however, had no personal act of defecation produces pressure upon these sensitive organs and renders the act a painful one, and volves considerable risk of the system rapidly absorbthus leads to neglect of this function. It is said that ling an excessive quantity of the drug, and in the case constipation is more prevalent in this country than of very young infants this leads to acute anæmia. in England on account of the fact that our compara- He has also come to the conclusion that the sudden tively dry climate favors the removal of the fluids of death, which is not an uncommon incident in heredthe body by evaporation, and thus diminishes the itary syphilis, occurs with far greater frequency where volume of excrementitious matter. However this this has been treated by inunction. For these reasons, may be, we know that a withdrawal of the fluid ele- he has for some years ceased to use it in the case of ments of the blood tends to foster if not to produce children under one year. The next treatment under this condition. This is shown by the influence which review is that by calomel. This also has a tendency lactation exerts whereby defecation is diminished in to produce anemia, and should, therefore, be given as a powder in combination with lactate of iron. The influences of frequently recurring pregnancies. This should be discontinued when the first symptoms are unfortunate. During gestation the uterus presses have disappeared, and saccharated iodide of iron subupon the colon and sigmoid flexure and interferes stituted until the spleen is no longer felt or the skin with their normal action. The extreme stretching of has resumed its normal color; but should the disease the abdominal muscles weakens them, and thus ren-reappear in the skin, mucous membrane, or bones, ders almost useless these important auxiliaries in calomel must again be resorted to. In some rare emptying the lower bowel. In some cases where cases, such as those where there is great irritability many children are borne, the abdominal muscles may of the intestinal tract, a subcutaneous injection of a become so relaxed that the impregnated uterus may freshly prepared mixture of calomel suspended in form a pendulous mass in front of the os pubis. The mucilage may be administered.

grains; but in the writer's experience, their effect upon Record, January 15, 1886. the disease is very slow, and should therefore be accompanied by calomel internally, and in that way giving corrosive sublimate is by subcutaneous injection. The solution should consist of perchloride of mercury gr. jss., chlorate of soda gr. vj., and water 150 grains, and of this one-half to one syringeful should be used every day or every other day until the met by the use of opium. symptoms disappear, to be renewed upon their return. chest, and must not be too close together.

The injection is in general well borne, and, according to Dr. Monti's experience, never produces mercurialism, and causes very little loss of flesh. It cannot be denied, however, that infants do not bear these injections so well as adults; even with the greatest care, it is not uncommon to find induration of the cellular tissue and abscesses at the seats of puncture. It is also not suitable for out-patients, uterine hæmorrhage; but it is shown that the necesbecause the mothers decline to bring the children sary conditions for its action do not exist in the lungs after the first few times. Notwithstanding that the unless their action be by vascular constriction, and symptoms subside more rapidly under this treatment than under any other, the author has of late confined its use to cases that would not bear mercury internally.

Albuminate of mercury, as recommended by Bamberger, is preferable for hypodermic use to corrosive sublimate, provided the solution be clear; but it is excessively unstable, and, if used in a cloudy state, produces irritation and abscesses. Much the same objection applies to mercury-peptone, though it is clotting of the blood, aided by the great fall in bloodrather more stable. Formamide of mercury (Liebreich) is unsuited to children. Protiodide of mercury produces excellent results, especially when combined in a powder with lactate of iron, and perhaps no other remedy acts so promptly upon syphilitic affections of the bones. Unfortunately, it produces diarrhoa and colic, and the addition of Dover's powder to the above compound soon ceases to have any effect. Consequently, Dr. Monti only gives it in cases where boneaffections exist from the beginning. Black oxide of mercury, as recommended by Henoch, was found to produce vomiting, and was therefore soon given up. The author has had only a limited experience of hydrargyrum tannicum oxydulatum (Ludwig), but is favorably impressed by it, more especially because it does not appear to affect the digestive organs. It is now a recognised fact, that hereditary syphilis can be tysis upon the organ involved. cured by preparations of iodine as well as, though the whole insuperable objections, or as saccharated ample, mechanically, as by the use of Junod's boot, iodide of iron. The treatment of syphilis with this or free dry cupping; (b) or by dilating some of the drug was favorably commented upon by the author great vascular systems of the body, and making them in a paper on the subject in 1876, and his subsequent act as temporary reservoirs for the blood; (a) the experience of it has confirmed this predilection. It abdominal system (purgation); the cutaneous system; is borne well by children of any age, improves their counter-irritation; possibly pilocarpin, or even nitrite nutrition, and never produces iodism; but it is much of amyl. These two drugs dilate the vessels through-

The treatment by corrosive sublimate gives very best suited for very chronic cases. It should be satisfactory results, provided it be not to long con-given as a powder; for, if the syrup be used, it is apt tinued, in which case symptoms of gastric irritation to produce diarrheea. Three grains may be divided will supervene. This drug is also administered in the into ten powders, and a new-born child may have two form of a bath, which should contain about seven or three daily, dissolved in milk.-London Medical

THE TREATMENT OF PROFUSE H.EMOPTYSIS.—In they appear to hasten the cure. The best mode of an article on this subject, read before the Medical Society of London, Dr. Samuel West gives the following summary of the principles of treatment:

> 1. Rest(a) of body generally, (b) of part diseased. Many of the indications under this heading will be

2. Hamostatics.—(1) The topical astringents; (2) The punctures are best made upon the abdomen or the vascular constringents. Topical astringents cannot be applied to the bleeding part of the lung, and if they act at all, it must only be as vascular constringents.

The belief as to the use of the vascular constringents in pulmonary hæmorrhage is probably based upon an incorrect theory of the pathology, and reasons have been given why they can be expected to do but little, if any, good. Ergot was probably introduced on account of its efficiency in controlling this is probably ineffectual.

As the risk of death in profuse hæmoptysis is not so much from loss of blood as from suffocation, and as profuse hemorrhage tends to bring about of itself the conditions most favorable to its cessation, an attempt may be made to imitate these conditions in treatment. When a vessel is divided hæmorrhage ceases (1) from contraction of the vessel; (2) from pressure which severe hæmorrhage induces.

1. Contraction of the Bleeding-Vessel.—The vessel is so diseased in hæmoptysis, that its muscular coat can no longer act at the diseased spot, and therefore this condition cannot be fulfilled.

2. Clotting of the Blood.—There is, so far as I am aware, no drug which, by internal administration, can increase the clothing power of the blood.

The effect upon the blood-pressure can be imitated in various ways.

- 1. By free blood-letting from artery or vein. This old-fashioned method of treatment is as rational in cases of suffocative hæmoptysis as in apoplexy, for in both cases the risk to life is not from the loss of blood, but from the mechanical effects of the hæmop-
- 2. If blood-letting be inapplicable, the same end more slowly than, by mercury. It may be given as may be aimed at by detaining the blood in some part iodide of potassium, to which, however, there are on of the body other than the part diseased; (a) for exslower in its action than mercury, and is therefore out the whole body, and might possibly be of great

have been considered.

much used by Trousseau.

useful in pulmonary hæmoptysis.

far from satisfactory, and perhaps, from the nature of had been secured in the bladder. things, may be doomed to continue so. Speculation may, perhaps, suggest lines of treatment which ex-tube and catheter were removed, the patient not periment may follow out, and of the value of which having had the slightest bad symptoms. For twelve observation alone is the true test. - British Medical hours after the removal of the drainage-tube and Journal, January 16, 1886.

CALCULI FROM THE BLADDER.—MR. THOMAS AN- well, on the tenth day after the operation. NANDALE reports the following case in which he

chloroform, and dilated urethra by passing Nos. 6, 7, does away with the principal risks which have oc-8 and 9 silver catheters in succession. The first three casionally been encountered in performing the operpassed readily, but No. 9 was slightly grasped in its ation on children. passage along the urethra. Before removing this last catheter, four ounces of antiseptic fluid (corrosive terity to seize a small stone in a male child's bladder; lithotrite, having a diameter about equal to a No. 8 surgeon, should possess. bougie, was introduced along the urethra into the bladder. After a little careful manipulation, the stone ple might be carried out, by bringing the stone to was seized, and fixed between the blades of the in- the neck of the bladder, opening the prostatic part strument. It was then found that, by depressing the of the urethra, and thrusting the blades of the lithohandle of the lithotrite, its vesical extremity, together trite and contained stone into the perineal wound; with the stone, could be readily felt through the abdominal wall immediately above the pubes. The doubt that the suprapubic method is preferable.lithotrite being held in this position, a small incision, British Medical Journal, January 2, 1886. an inch in length, was made in the middle line of the abdominal wall over the pubes, and for a short distance above it. The various tissues were divided, sistent Deafness, - Dr. William H. Bates, of New until the wall of the bladder was exposed at the point. York, in an article on this subject says that many against which the blades of the lithotrite and the en- cases of deafness are not benefited by thorough closed stone were pressing. A little further depress catarrhal treatment, inflation of the middle ear, the

service. Some objections in theory to their action sion of the handle of the lithotrite caused the extremity of its blades covered by the stretched wall 3. The blood-pressure may be further influenced of the bladder to protrude through the wound in the through the heart: (a) by means of the cardiac de- abdominal wall; and a small incision having been pressants, of which antimony is the most reliable; made through the wall of the bladder by cutting upon (b) by the nauseating emetics, though their action the extremity of the lithotrite, the blades of the lithoupon the heart is probably only a part of a more trite, together with the stone, were pushed through general action. Of the emetics, ipecacuanha was the wound. The stone was here extracted from between the blades of the lithotrite; and the open ex-4. Lastly, dieting is of great importance. The tremity of a No. 7 India-rubber catheter was seized, principle of absolute rest and restricted diet, which and drawn into the bladder and along the urethra as is the essence of Tufnell's treatment for aneurism of the lithotrite was removed, thus leaving a drain for the thorax and abdomen, is equally applicable and the urine to escape from the bladder. The wound in the abdominal wall was closed by means of two horse-Instead of giving a long list of drugs, or discuss- hair stitches, and a drainage-tube introduced into it ing in detail the various methods of treatment of so as to aid the escape of any urine which might flow hæmoptysis, I have endeavored in this paper to ascer- from the bladder-wound. Irrigation with corrosive tain the conditions which have to be fulfilled, and to sublimate solution (1 to 2,000) was employed during indicate the essential principles which should guide the operation, and the wound and parts around were our choice of remedies. I have purposely avoided covered with a dressing of corrosive sublimate wool. speaking of my own experience, desiring rather to The stone removed was about the size of horse-bean, elicit that of others; and although some, of the lines of uric acid formation. For the first thirty-six hours of treatment are, it is true, open to the objection after the operation, the urine was slightly tinged with that they are so far speculations, still it cannot be blood, passed principally by the abdominal wound; denied that our present treatment of hæmoptysis is but after this, it flowed through the catheter, which

Forty-eight hours after the operation both drainagecatheter, the urine came by the abdominal wound; but, after this, it passed almost entirely by the urethra, New Procedure for the Removal of Small and the patient was running about the ward, perfectly

It may be said that this is simply a suprapubic adopted a new procedure for removing small vesical lithotomy, and so it is, but I maintain that it is a much calculi from male children: A boy, aged 414, was less serious proceeding than the ordinary suprapubic sent to me on account of symptoms of stone in the operation, as the bladder is scarcely disturbed, and bladder which had existed for about a year. The the wound made in it is very limited. Its advantages usual symptoms were present and well marked, and, over lateral lithotomy are: 1. That the urethra, upon sounding him. I detected a small and light stone. prostate, and neck of the bladder are left uninjured; On December 10, I put him under the influence of 2. That it is a much more simple proceeding, and

I confess that it requires a little manipulative dexsublimate 1 to 4,000) were injected through it into but no greater dexterity is required in doing so than the bladder. This catheter being withdrawn, a small what every surgeon, professing to be an operating

It is possible that in certain cases the same princi-

NEW OPERATION FOR THE ALLEVIATION OF PER-

use of Siegle's otoscope, an artificial opening in the diminished by alcohol, although the excretion of urea drum-membrane, division of the tensor tympani, etc. cannot be taken as a measure of organic oxidation. He calls attention to an operation which has benefited a number of these obstinate cases. The operthe air-passages, which increases the elimination of ation consisted in puncturing or incising the drum- urea, lessens the amount of benvol oxidized to phenol membrane in from five to ten different places, in the system. In none of these cases, it may be Simple punctures were made, or the drum-membrane said, could more than traces of the alcohol ingested was slit in various directions. The operation was be discovered in the urine.—London Medical Record, repeated as soon as the openings in the drum-mem- January 15, 1886. brane had healed. The size and freedom of the incisions must be determined after the first operation

knife be sharp, and to make this certain he often used done by children. For the prevention of myopia, a freshly sharpened knife for each puncture. Pain sa avoided by this precaution. A dull knife, or the paracentesis instruments sold in the shops, caused First in importance is the arrangement and lighting more pain than the patients could bear.

prevent pain when the knife was dull.

of cicatrices in the drum-membrane; the subsequent sky. Light from above is the best, and, except in contraction of these producing a tension by which hot climates, glass roofs are very advantageous. The the membrane is drawn out. The membrane frees chief light must come from the scholar's left side. tiself from adhesions in this manner, and in many The height of the top of the window from the floor cases loosens the anchylosed ossicles. The various should not be less than two-thirds the width of the benefits of paracentesis, as formerly employed, are room. The total window-surface should bear to the not only obtained but much increased. It is not an area of the floor a proportion of at least 1 to 5. In improvement the result of a perforation of the drum- artificial lighting by gas, every burner must have a membrane alone, which, as is well known, is often glass chimney and a shade, the latter arranged to redoubtful and transitory, but the subsequent healing flect the light down upon the desk, and to screen the of the openings is part of an improving process, scholar's eyes. There should be about one burner to The operation, suggested by that of paracentesis, every four scholars.' differs from it in the simultaneous number and exary 23, 1886.

ON PHYSIOLOGICAL ONIDATION has been studied by between seat and desk, in the vertical direction, must Sumanowsky and Schoumoff. Adopting Sieber and be but little greater than the distance between the Nencki's suggestion, the oxidation of ingested benzol elbow and the ischial tuberosity. The edge of the to phenol was taken as a measure of the systemic desk must overhang the seat about two inches; the oxidation. The elimination of phenol lasts from two scholar can then sit upright. The surface of the to four days. In the case of a dog which normally desk must slope about i in 5, to obviate the bending excreted 0.283 to 0.248 gramme of phenol for every forward of the head; and the breadth should not be gramme of benzol ingested, the administration of less than 1512 to 16 inches. All stooping should be o'3 gramme of alcohol per kilogramme of body- avoided, and the types used must be perfectly legiweight reduced to the elimination to 0 165 gramme; ble.—British Medical Journal, January 16, 1886. while an increase in the alcohol to 3.01 grammes per kilogramme reduced the phenol eliminated to 0.125 The quantity of urea excreted appears also to be Journ., January 2, 1886.

THE PREVENTION OF MYOPIA IN SCHOOL CHIL-DREN.-It is now tolerably well established that For the operation he employed a Graefe cataract- shortsightedness is developed and increased in a cerknife with a long shank. It is important that the tain direct relation to the amount of school-work of the schoolroom.

Cocaine was not necessary when the knife-blade "The principal windows in England should look to was in proper condition, and this remedy would not the south or south-east. The long axis of the room should run north and south. Every scholar should, The result of this operation is to leave a number from his place, be able to see some portion of the

It is most important that the eves should not be tent of the incisions, as well as in the purpose for approximated too closely to the book. The proper which it is resorted to, and in the immediate and sub-position is that in which the shoulders and pelvis are sequent results.—New York Medical Record, Janu- parallel with the edge of the desk, and the head upright or bent but slightly forward. As to the construction of desks and seats, there must be several THE INFLUENCE OF ALCOHOL AND OF MORPHINE sizes, to suit scholars of various ages; the distance

Sparteine in Heart Disease.—Prof. Germain gramme. On the other hand, the administration of See has recently subjected Laborde's deductions from 0.02 gramme of morphine hydrochlorate per kilo- experiments to the test of clinical trials, the patients gramme increased the phenol to 0 309 gramme. In being two persons with degeneration of the cardiac a man, aged 27, two grammes of alcohol per kilo- muscle, one with mitral stenosis, one with mitral ingramme of body-weight reduced the elimination of sufficiency, one with aortic stenosis, and one with phenol, after the ingestion of two grammes of ben-cardiac asthma and albuminuria. From the action zol, from 0.82 to 0.33 gramme. The morphine there- of the drug in these cases he concludes that sparfore seems to increase the oxidizing powers of the teine sustains the action of the heart, improves its system, while alcohol correspondingly decreases them. rhythm, and accelerates its movements. - V. Y. Med. THE

# Journal of the American Medical Association. PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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## THE DIVISION IN THE PROFESSION OF NEW YORK STATE ON CODES OF ETHICS-ITS BEARING ON THE INTERNATIONAL CONGRESS DIFFICULTY.

It has been asserted that much of the trouble with tions and is embodied in the following: regard to the organization of the International Medical Congress has been due to dissensions, which have titioner or as a fit associate in consultation, whose existed and which now exist in the profession in the practice is based on an exclusive dogma, to the re-State of New York; and it is assumed by some jection of the accumulated experience of the profesthat these dissensions are little more than a local sion, and of the aids actually furnished by anatomy, quarrel, having no proper relation to the profession physiology, pathology, and organic chemistry." at large or to the proposed organization of the Con- In 1882, by the two-thirds vote required, the Medgress. Although the profession of the State of New ical Society of the State of New York repealed the York is certainly divided in opinion on the question Code containing this provision, and adopted the of medical ethics, the quarrel—if one have existed— so-called "New Code," which has the following prohas long since disappeared from public view. That vision with regard to consultation: there actually is a division of the profession in New "Members of the Medical Society of the State of York is shown by the existence of two distinct State New York, and of the medical societies in affiliation medical organizations. The Medical Society of the therewith, may meet in consultation legally qualified State of New York, organized by act of Legislature in practitioners of medicine." (The phrase "legally 1806, in its volume of "Transactions" for 1884 showed qualified practitioners of medicine" introduced here a total active membership of 392. In 1882, this we will continue to use throughout this article, Society repealed the Code of Ethics of the American although there is no law in this country establishing Medical Association. In 1884 the New York State a legal standard of qualifications for practitioners of Medical Association was founded as a voluntary medicine in the same sense as in the countries of organization. In its volume of Transactions for Europe. With very few exceptions, our laws reguship of 514. This Association adopted the Code of registration laws, requiring all sorts of practitioners. fundamental part of its organization.

bearing upon the organization of the International either adequate scientific or professional attainments

at large to know, if possible, the exact status of the two parties into which the regular profession is said to be divided. The New York State Medical Association is in affiliation with the American Medical Association, and with the regular profession of the United States. The Medical Society of the State of New York is no longer in affiliation with the American Medical Association, for the reason that it does not accept the Code of Ethics of the Association. So far as the so-called division of the profession in the State of New York is concerned, we shall give to our readers the facts as they appear in publications readily accessible, with no expression of opinion upon the questions involved. If these facts have any proper relation to the organization of the International Medical Congress, this will appear without argument; and certainly the profession of this country and of other countries should be made acquainted. as nearly as possible, with the exact condition of the profession with regard to medical ethics.

The provision of the Code of Ethics of the American Medical Association, which constituted the main subject of discussion in New York, refers to consulta-

"But no one can be considered as a regular prac-

1884, the Association showed a total active member- lating the practice of medicine are practically simply Ethics of the American Medical Association as a regular and urregular, to register their credentials in the clerk's office of the county in which they practice Inasmuch as the condition of the profession in the and obtain a license which gives them authority to State of New York is supposed by some to have a practice, without furnishing any proof that they have Medical Congress, it is of interest to the profession for the practice of medicine.) The "New Code" was adopted in the Medical Society of the State of New institution, are copied from the report of the Illinois York by a vote of 52 to 18, 70 members being present State Board of Health on the medical colleges in the and voting. In 1884, an effort to repeal the "New United States, 1765-1885. Code" and to reëstablish the Code of the American 1. Eclectic Medical College, New York. 2. Syra-

of medicine" with whom "members of the Medical manner that has since been declared illegal by the Society of the State of New York, and of the medi- State Supreme Court. Extinct since 1882." 4. cal societies in affiliation therewith" are now per- Philadelphia University of Medicine and Surgery mitted to consult, and with whom many so-called (Eclectic). "Incorporated in 1859. Fraudulent. regular physicians in the State of New York do now The sale of diplomas was stopped by legal process, freely consult, was fixed in 1880, nearly two years and the arrest of Miller and others in 1880." 5. Ecbefore the adoption of the "New Code," by an act lectic Medical College, Cincinnati, Ohio. 6. Bennett of Legislature entitled "An Act to Regulate the College of Eclectic Medicine and Surgery, Chicago, Licensing of Physicians and Surgeons." It may be Illinois. 7. New York Medical College for Women assumed that those who advocated the adoption of (Homeopathic). 8. Homeopathic Medical College, the "New Code" were aware of the character of New York. 9. Hahnemann Medical College, Philacertain practitioners with whom consultations were delphia, Pennsylvania. 10. Worthington Medical permitted under the "New Code," inasmuch as cer- College, Ohio, afterward the Eclectic Medical Institain of the advocates of the "New Code" were tute. 11. Metropolitan Medical College, New York active in preparing the bill under which practitioners (Eclectic). "Organized in 1852; incorporated are now registered in the State of New York. In March, 1857. Charter repealed April 12, 1862." 1883, Messrs. Caswell, Hazard & Co., druggists, of 12. Hygieo-Therapeutic College, New York. "Ex-New York City, printed and distributed a list of tinct." 13. Homeopathic Medical College, Cleve-"Registered Physicians in the County of New York, land, Ohio, and Western Homeopathic Medical compiled and alphabetically arranged from the offi- College, afterward consolidated under the name of cial list in the office of the County Clerk, to January the Homeopathic Hospital College. 14. Eclectic 14, 1881, revised to January 1, 1883." This list, Medical College of Pennsylvania. 15. Electrowith the report of the Illinois State Board of Health Therapeutic Institute of Philadelphia. 16. St. Louis on "Medical Education and Medical Colleges in the Eclectic Medical College. "Organized in 1874-United States and Canada, 1765-1885," giving the extinct in 1883. Closed by legal process." 17. standing of the medical colleges of the United States, Hahnemann Medical College, St. Louis, Missouri. and the "Medical Register of New York, New Jersey 18. Massachusetts Medical College. No informaand Connecticut," for 1883-84, has been used in the tion. 19. Homocopathic Medical College, Leipsic. following analysis. The "Medical Register" is sup- No information. 20. Physio-Medical College, Cinposed to contain the names of all legally qualified cinnati. Ohio. "Organized in 1836; graduated regular physicians in the County of New York. The classes until 1880. Extinct." 21. American Instinumber of such physicians in the "Register" of tute of Phrenology. No information. 22. Germancounty clerk contains not only the names of the reg- information. 23. Hudson University, Cleveland, ular physicians who are named in the "Medical Ohio. No information. 24. Mexican Homocopathic practitioners of medicine."

Medical Association was defeated by a vote of 123 cuse Medical College (Eclectic). "Organized 1849, to 105, 228 members being present and voting. extinct, 1855." 3. United States Medical College, The exact status of "legally qualified practitioners New York (Eclectic). "Organized in 1878, in a 1883-4 was 1,661. The register in the office of the town Medical College, District of Columbia. No Register," but the names of all "legally qualified Institute. No information. 25, Ohio Botanic Medical College. No information. 26. New England An analysis of the county clerk's register shows the Female Medical College, Boston, Massachusetts following: 388 irregular practitioners are registered. (Homocopathic). 27. Penn University, Philadel-Of this number, 38 are graduates of regular medical phia, Pennsylvania. "Fraudulent. Extinct." 28. colleges, but are members of the "Homeeopathic New York State Homeeopathic Medical College. Society of the County of New York," while 350 are No information. 29. American University of Philgraduates of irregular medical colleges. The follow-adelphia. "Incorporated in 1867. Fraudulent. Exing colleges are the irregular institutions named in tinct. The sale of diplomas was stopped by legal the register. Notes of the status of each college, process, and the arrest of Buchanan in 1880." 30. where this is not plainly indicated by the title of the American Medical College of St. Louis (Eclectic). opathic). 32. New York Ophthalmic Medical Col- of the Congress and the Presidents of Sections, with lege. No information. 33. License by Professor power to increase its membership to a total number Pfeiffer. No information.

of New York is divided into two classes, these classes the affairs of the Congress absolutely in the hands of may properly be defined—at least so far as can be this Executive Committee, which Committee is now judged from what has been published regarding the perfecting the organization of the Congress in actroubles in New York—as one, composed of mem-cordance with the rules adopted by the Committee bers of the Medical Society of the State of New of the American Medical Association. York, and others, who sympathize with the so-called | The rules of the Congress admit as members all cians in good standing.

Ninth International Medical Congress, by what is original form. known as the Original Enlarged Committee of the If the question involved be one of principle, that pointed in 1884 exceeded its powers in appointing Ethics. the officers of the Congress; and, at its meeting in appoint the officers of the Congress.

trusted the details of the further organization to an tion of the Congress.

31. Pulte Medical College, Cincinnati, Ohio (Homœ- Executive Committee composed of the titular officers not to exceed thirty. The Committee on Organiza-If it be assumed that the profession of the State tion having thus completed its necessary work, put

New Code of Ethics; and the second, composed of regular physicians without restrictions as regards Fellows of the New York State Medical Association, opinions on the question of medical ethics; but the and others, who adhere to the Code of Ethics of the Committee virtually acted in accordance with what American Medical Association. The "New Code" appeared to be the sense of the body by which it party admits the propriety of professional recognition was appointed, which was "that it should place no of and of free consultation with the 388 practitioners, man in any official position who is in direct opposilegally qualified to practice, but generally regarded as tion to the Code of Ethics of the American Medical irregular, registered according to law, and with irreg- Association" and of all the affiliated State Medical ular practitioners registered in other counties. The Societies in the United States. The present status "National Code" party refuses professional recogni- of the organization of the Congress is that the sotion of and consultation with any but regular physicalled New Code representatives from New York are freely eligible as members of the Congress. The The questions which have divided the profession demand of certain members of the profession, who of New York-which seem to be not without interest have declined to take any part in the Congress, seems and importance to the profession at large—were to be that all the officers appointed by the Originalbrought indirectly before the meeting of the American Committee shall be restored, including the "New Medical Association in 1885, following the publica- | Code" officers from New York, and that the organtion of the rules and preliminary organization of the ization of the Congress shall be put back into its

Association. This committee appointed 56 physi- principle is whether or not members of the regular cians from New York as officers of the Congress and profession who advocate consultations with any and of the Sections. Of this number, 27 were on record all legally qualified practitioners, including such as as adhering to the "National Code," 20, as having are registered in the County of New York from the adopted the "New Code," and the remaining o, irregular colleges, shall be recognized by appointeither as in favor of no code of ethics or as uncom- ment to offices in the Congress. If the question mitted or unclassified. This classification is taken from relate merely to individuals, it resolves itself into one a publication issued by a body of physicians in New of the appointment as officers, by a Committee York City, which afterward organized the New York originally derived from and appointed by the Amer-State Medical Association. The American Medical ican Medical Association, of members of the pro-Association decided that the Original Committee ap-fession who are in direct opposition to its Code of

The foregoing is a simple statement of what appear 1885, the Association enlarged the Original Commit- to be the relations of the profession of New York to tee by adding members representing different sections the organization of the next International Medical of the United States, and instructed the Committee, Congress, giving the condition of medical matters in thus enlarged, to "review, alter, and amend" the the State as it appears from printed records and work of the Original Enlarged Committee, and to documents, without trending upon the questions of geographical distribution of offices and the proper The New Committee held several meetings, made functions and powers given by the American Medical a preliminary organization of the Congress, and en- Association to its Original Committee on Organiza-

## "THE MITRAL CARDIAC MURMURS."

Dr. A. Flint, Sr. to the January number of the accord. As might be expected, the differential diag-American Journal of the Medical Sciences. As stated nosis of a mitral regurgitant or non-regurgitant murby its author, the paper is not designed to add any mur is not always easy. But, if Flint's view be new facts to what is already known of the subject, correct, that a mitral systolic murmur may exist withbut merely to call the attention of the profession out incompetence of the valves, there can be no anew to some of the characters of heart murmurs increase of pressure within the pulmonary circuit, belonging to the mitral area. The paper is written and hence no accentuation of the second pulmonary in the author's happiest style, and would repay every sound. This, it seems to us, ought to prove a valugeneral practitioner for its perusal.

classes as follows: Mitral regurgitant, mitral non-regurgitant may be combined with a regurgitant regurgitant or intraventricular, mitral presystolic, and murmur. It is then to be distinguished by its softmitral diastolic murmurs. A systolic murmur which ness and blowing quality. is heard with greatest intensity at or near the heart's apex is of so common occurrence as to be familiar to say. His description of its character corresponds almost every physician, and is generally considered with that of other competent observers, viz.: that it to denote incompetence of the mitral valves. In the is rough and usually loud. He denotes it as "vibramajority of cases this murmur is propagated to the tory or blubbering," thereby meaning the same as left and is audible upon the back. It is accompathose who call it "rolling," "grinding," or "churnnied, too, with an accentuation of the second pul-ing," As to the mode of its development, however, monary sound and demonstrable enlargement of the all observers are not in accord. Flint asserts his right ventricle. In such a case there could be no belief in its dependence upon that condition of the reasonable doubt thrown upon the existence of an valves in which the edges are glued together, thus insufficiency of the bicuspid valves. According to forming a funnel-shaped sack with a button-hole slit. Dr. Flint there may be heard at times a systolic Hilton Fagge, in "Reynolds's System of Medicine," murmur, having its maximum of intensity at or near appears to regard this distortion of the valves as that the apex, which, however, does not depend upon a most often found in cases in which a rough presysregurgitation of blood into the auricle. It is pro-tolic murmur was heard during life. Douglas Powell duced within the left ventricle, and hence is termed has essayed to prove that the most usual form of valve by Flint "intraventricular" or "non-regurgitant." associated with this murmur is what he has termed valves as the result of endocarditis.

across the cavity of the ventricle, since the valves Flint upon this point. were competent. Dr. Andrew H. Smith attributes | There is another question pertaining to the presys-

and consequent stretching of the auriculo-ventricular Under this title is an admirable contribution by orifice. With this theory Dr. Flint is by no means in able aid in determining the true nature of such a Mitral murmurs are divided by the author into four murmur. In some cases, the author says, a non-

Of the presystolic murmur Dr. Flint has much to He does not attempt to account for its production in the "diaphragmatic valve." In this condition the all cases, but thinks it might occur if there were a valve is stretched diaphragm-like across the ostium, deposit of fibrine upon the ventricular aspect of the leaving a constricted opening. Balfour adopts this theory of Powell, and plainly states in the present In support of the existence of such a murmur, he edition of his "Lectures on Diseases of the Heart" cites a case reported by Dr. Janeway, of New York, that in the majority of cases with a rough presystolic in which the necropsy showed that the mitral systolic murmur the valves do not present the funnel-shape murmur heard intra vitam must have depended for described. It is probably within bounds to state, its production upon a tendonous band which stretched however, that the majority of observers agree with

the murmur in question to the friction of the opposed tolic murmur in which the author appears to stand edges of the valve-segments. But this theory Dr. alone: It is as to whether a presystolic murmur may Flint does not consider adequate to its explanation, ever be pesent without stenosis of the mitral orifice. That a non-regurgitant murmur may exist is, accord- Dr. Flint has reported three cases in which he obing to the author, borne out by the clinical fact that served such a murmur, yet in which the autopsy in such cases the secondary and disastrous results of revealed no constriction of the ostium venosum sinisregurgitation never develop. George Balfour, on the trum. In two of the cases the valves were healthy, contrary, regards such cases as instances of functional, while in the third there were small vegetations upon not organic incompetence of the bicuspid valves, the auricular aspect of the curtains at their base. depending upon the relaxation of the ventricular walls. In all three cases, aortic incompetence, existed, and had been diagnosticated intra vitam from its charac- conditions may produce these sonorous fluid veins. teristic murmur. Balfour openly charges the author Accordingly, in the first case reported by Dr. Flint, with inability to recognize a presystolic murmur and the vegetations upon the auricular surface of the with having confounded it with the aortic diastolic mitral curtains may have generated such fluid veins, one present in all of the cases. To accuse so com- even without stenosis. Similarly, in the other cases, petent and experienced an observer as Dr. Flint of conditions dependent upon some peculiarity in the such ignorance and negligence is discourteous, to say stream regurgitating from the aorta may have prothe least, and it is not strange that the author should duced fluid veins at the very instant of the auricular feel incensed. Whether his explanation of the phe-systole, and thus given rise to a presystolic murmur. nomenon be tenable or not, the correctness of his Also, may not a variety of conditions produce nonobservation ought not to be doubted.

definitely characteristic of mitral stenosis as a presys- pulmonary artery? tolic murmur, and has been observed to develop after ation of the relaxed ventricle. The author, however, the ken of future generations. is not inclined to endorse this explanation. Whether this mitral diastolic murmur can be accounted for satisfactorily or not, the occurrence of such a phenomenon cannot be denied, and in the author's opinion, is entitled to the classification accorded to generated at the mitral orifice, it is such with respect September, 1885. to the area of its greatest intensity, and hence might | It was asserted in our editorial columns, September mislead an observer not acquainted with the possi- 26, 1885, that the instrument as described by Dr. bility of its occurrrence.

correct, viz: that intracardiac as well as intravascular obstetrics, and exposed for sale by Mr. J. Leiter dur-

regurgitant or intraventricular murmurs? Moreover Lastly, the author directs attention to the not in- is it wise to attempt to explain all murmurs occurring frequent presence of a mitral murmur which is dias- in the pulmonary area as the result of one and the tolic. That is, it occurs at or just after the second same physical condition? May not Naunyn's theory, sound and is separated by an appreciable interval which Balfour defends, be true of some cases, while from the succeeding ventricular systole. This is as in others the murmur is hæmic and located in the

Much as we flatter ourselves we know of the physthe subsidence of the latter. It is somewhat soft and ical diagnosis and of the pathological conditions of bellows-like in quality. Bramwell attributes its pro- the heart, we are yet wofully ignorant of many things duction at the beginning of diastole, to the increased which more extended clinical observation, supported force imparted to the inrushing stream by the aspir-by post-mortem examinations, will probably reveal to

## FELSENREICH'S MODIFICATION OF ALEXANDER SIMPSON'S AXIS-TRACTION FORCEPS.

We desire to call attention to Dr. T. Felsenreich's it, except indirectly. Dr. Flint says nothing con-paper, entitled "Experiences with the Axis-Traction cerning another diastolic murmur that is occasionally Forceps," appearing in another column, for two reaheard with maximum intensity at the apex, yet is not sons: 1. It is a valuable contribution to the litergenerated at the mitral orifice. This is that very rare ature of the subject of the axis-traction forcess by form of aortic regurgitant murmur first described by an accomplished obstetrician of very large experi-Balthazar Foster and recognized by both Balfour and ence; 2. It settles conclusively a question, in regard Fothergill. In case the posterior segment of the to which some difference of opinion seems to exist. aortic valves be ruptured, the ensuing murmur is said Dr. L. E. Neale of Baltimore, presented to the Medicoto be loudest at the apex instead of at the middle of Chirurgical Faculty of Maryland, in Baltimore, and the sternum. Foster is said to have made the diag- the American Gynæcological Society, in Washington, nosis of incompetence of the posterior cusp in one 1885, a model of an axis traction forceps, which he case, in which it was verified by the necropsy. Al- has since decribed under the title, "An Obstetric though this murmur is not mitral in the sense of being Forceps," in the American Journal of Obstetrics,

Neale in the journal mentioned, was identical in all Dr. Flint's paper is succinct and full of matter for essential details with Felsenreich's modification of reflection. Among other things the thought is sug- Alexander Simpson's axis-traction forceps; that this gested by the wide divergence of authors concerning valuable instrument (Felsenreich's modification of the mode of production of certain murmurs, that per- Alexander Simpson's axis-traction forceps) was used haps all of them may be right. If Savart's theory be in Braun's clinic, exhibited in courses on operative murmurs are caused by the audible vibrations of fluid ing Dr. Neale's sojourn in Vienna, a considerable veins, there is reason to suppose that a variety of period of time prior to the construction of the so-

called Neale axis traction forceps; that Felsenreich's lateral surface of the turbinated bone between it and modification could scarcely have escaped the ob- the antrum. servation of such an acute, zealous, and industrious student as Dr. Neale; and, finally, that Dr. Neale's allusion to Dr. Felsenreich in the paper mentioned, was disingenuous.

Some correspondence ensued between Dr. Neal and the editor of THE JOURNAL, which resulted in a communication to Dr. Felsenreich, now Docent in ob-Dr. Felsenreich's reply is published without comment, as the point in question is discussed in no unequivocal terms.

# SOCIETY PROCEEDINGS.

### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, January 13, 1886. THE PRESIDENT, C. H. A. KLEINSCHMIDT, M.D., IN THE CHAIR.

T. E. McArdle, M.D., Secretary.

Dr. Bermann presented a number of

NASAL POLYPI

removed from one person. These tumors, he said, were not gelatinous, but fibrous, and showed under the microscope a large number of connective tissue corpuscles. The patient was supposed to have had bronchial catarrh. She suffered from asthmatic attacks and was unable to breathe through the nose. Her general health was much affected and she presented quite a decrepit appearance when first she came to his office. He removed the polypi with a snare, taking away as many as he could see at each sitting. He cauterized the points of insertion with tri-chlor, acetic acid, and believed that the tumors ing ceasing after awhile, he concluded not to have would not return. The proceeding was painless. At first he used cocaine, but afterwards dispensed with it on account of its numbing influence on the pa- until November, 1885, when he again placed himself tient's tongue. He related the salient points of a similar case which had been under his care in that an operation should be performed, especially as

DR. J. FORD THOMPSON did not understand why Dr. Bermann should use a snare when forceps is so much more convenient and simple. He himself had removed polypi with forceps which could not be reached with the snare. He could thus remove as standing all known remedies were used to control many as he desired at one visit.

instrument for such delicate work. Moreover, in his experience it was not as satisfactory as the snare, for the forceps could not reach points which could be reached with the latter instrument; for example, the

(To be concluded.)

Stated Meeting, January 20, 1886.

THE PRESIDENT IN THE CHAIR.

Dr. H. C. Yarrow read the history of a case of PAPILLOMA OF THE BLADDER.

The patient, a male, aged about 45, noticed some stetrics and gynaecology at the University of Vienna. fourteen years ago an irritability of the bladder, a constant desire to micturate, with scanty flow, and after a time a profuse discharge of bloody urine, subsiding within variable periods of time under the administration of appropriate medicines. This condition of affairs continued until the winter of 1884, when he came under Dr. Yarrow's care, and he supposed at this time that he was suffering from renal hæmorrhage. He was examined very carefully with a view to determine the origin of the bleeding, and all possible sources were excluded with the exception of a surmise that a tumor or villous growth perhaps existed. His urine was frequently examined microscopically, but no signs of a growth were discovered. All sorts of hæmostatics were employed in addition to local remedies, but the bleeding still continued, until finally it was decided to try and remove a portion of the growth if one was present, by means of a searcher, or short curved sound. Sweeping this instrument carefully around the inside walls of the bladder, it met with an obstruction at the lower portion of the posterior wall, but it was impossible to say whether there was a growth or simply a rugous condition of the wall. The beak of the instrument was passed over it several times, and then all further manipulation was abandoned. There was very free hæmorrhage the next day, and in the afternoon several shreds of tissue were passed; these being submitted to microscopical examination, proved to be portions from a papillomatous growth. The diagnosis was submitted to the patient, and he was advised to have the growth removed; but the bleedanything done.

He had no further return of serious hæmorrhage under Dr. Yarrow's care. He was again advised the diagnosis was confirmed by the examination of another shred from the growth, but he hesitated until grave fears were expressed for his life. He was losing daily an appalling amount of blood, and was becoming manifestly weaker day by day, notwiththe bleeding. He finally agreed to an operation, and Dr. Bermann thought the forceps too rough an for reasons best known to himself preferred to visit Philadelphia and have it performed by Dr. D. Hayes Agnew. At the patient's earnest request Dr. Yarrow accompanied him to that city, and on December 16 he was operated upon in the presence of the class. The operation was the one proposed by Sir Henry Thompson, called by the old French surgeons the boutonnière, and may be briefly described as fol-

<sup>10</sup> The idea of its construction is not entirely original with me, as the button hole joint for the traction rods was first shown to me by Dr. Fel-senreich, first assistant to Prof. Carl Braun, of the Vienna chinic, in 1882." The American Journal of Obstetrics, September, 1885.

lows: The patient having had the perineum shaved, instruments like Hey's saws to remove the growth, and being anæsthetized, the bladder being filled with but in the majority of cases the forceps are sufficient. water, was placed in the the lithotomy position, and In case of bleeding from the base of the tumor after a medium staff, short curved and widely and deeply removal he uses syringes of peculiar form intended grooved, was passed into the bladder, and was there to make a direct application of some one of the firmly held hooked up under the pelvis by an assist- hæmostatics. In Dr. Yarrow's case all bleeding finger into the rectum, feeling with its tip the posi- With regard to the statistics of the operation, he will tion of the staff and placing the point of the finger give the results of the twenty cases of vesical tumors on the apex of the prostate as a guide. Then with operated on by Sir Henry Thompson up to the year a long, narrow, straight-backed bistoury, a vertical incision was made through the skin and cellular tissue tumor, two were in women: one of these died in in the line of the raphé, an inch and a quarter long, three days of total suppression of urine; autopsy the lower border terminating three-quarters of an showing advanced disease of kidneys (one contained inch above the anus. The bistoury was entered, a large calculus), and that no injury was inflicted upon cutting edge upwards, horizontally at the lower bor- the bladder. The other is now in excellent health, der of the incision above the bowel, and parallel having entirely lost her painful symptoms; observing with it, and the point was directed inwards until it a few drops of blood, occasionally, after more exerpenetrated the membranous portion of the urethra, cise than usual. More than two years have elapsed entering the groove of the staff. The urethra was since the operation. Of the eighteen male cases, then incised on the staff for a short distance, taking five died within three weeks after the operation; three care not to wound the bulb. The knife was with-others at periods of some months after, two of them drawn and a gorget-like director passed into the from malignant disease developed elsewhere. The groove of the staff and pressed firmly but gently other nine are living; one of these, from whom I rebladder within reach.

found by Dr. Agnew, who proceeded to remove it Of the remaining four, one has had no return whatby using one of Thompson's forceps. This growth ever, four years having elapsed since the operation; was nearly as large as an English walnut. Further a second has slight signs of a return, one year and a exploration revealed, on the anterior wall of the bladder, another and a larger growth, which was also removed, the two masses together being half as large death's door from loss of blood when I operated, has: as a man's fist. The bladder was washed out with greatly improved, and is actively employed, but has carbolized water, some carbolized cotton applied to recently shown some disposition to bleed after exerthe wound, and the patient sent to his bed. During cise, nearly a year since operation. The fourth was the operation not over four ounces of blood were greatly improved, and returned to the active life for lost. No untoward symptoms presented themselves which he was before disqualified. The others have at any time while he remained in the hospital, and too recently been operated on to furnish any material on December 31st he returned to his home in Wash- fact to be reported. More ample details are furington, apparently well, the incision having entirely nished in the table of cases. . . . . 1 may thus briefly healed. On the third day after the operation urine sum up the record of the numerous facts related: passed through the urethra without a tinge of blood, For every one of these patients with tumor, in the and at the present time he seems perfectly well, be-natural order of events, one result only was possible. ing no longer troubled with symptoms of vesical Left to themselves, without surgical aid, death inevitdistress, which made life a burden to him.

Comparing this operation of Thompson's with the suprapubic or with the ordinary lithotomy operation, The bladder and its neck are not injured in any way, gerous of surgical operations. In the suprapubic section taken from the tumor of bladder removed by operation it is almost always necessary to make a Dr. Agnew December 16, 1885. It is a fimbricounter-opening in the perineum for drainage, and cated papilloma, under the microscope it shows a moved by lithotomy operation, or a suprapuble inci- growth is usually known as a soft papilloma.' sion. In some cases Dr. Thompson uses small saw-like | In conclusion, Dr. Yarrow said that when we read

The operator, seated, passed the left index stopped so soon as the growths were crushed off. along the urethra into the bladder. The staff was moved a tumor in the autumn of 1882, I operated on then withdrawn and the left index gently insinuated again, removing a larger growth than the original one along the director into the bladder; the director was last February, and he has again recovered. In four withdrawn, and the right hand was used to make cases no attempt was made to remove the tumor, it firm supra-pubic pressure, and bring all parts of the being manifestly impossible to do so, but only to diminish it as far as practicable with safety; all these The growth on the posterior wall was at once recovered well, and are rather better than before. ably awaited each; a fate not merely certain, but involving protracted suffering."

A portion of the growth removed from the patient I think the advantages are all in favor of the former, whose case has been reported has been examined by Dr. Gray, of the Army Medical Museum, and he and, in short, it is one of the simplest and least dan-reports as follows: "The enclosed specimen is a even if this be done, statistics show that many panumber of single and branched papille. The core tients perish of peritonitis. If the growth be so large of these papille is made up of delicate connective that it will not pass through the vesical neck, it may be tissue covered with layers of columnar epithelioma, removed piecemeal, divided within the bladder, or re- which rests on a delicate basement membrane. The

accounts of certain operations described by the great. It is true there was a difference in the length of the the unusual dexterity needed we occasionally find the work much more difficult than we supposed. He ed in reference to a case in a neighboring city. The does not think such is the case with regard to Thompton tumor was described as being as large as a man's son's operation. Anticipating that his patient would fist. He related the history of a case of papillomasooner or later consent to an operation, he practiced tous disease of the rectum in which he had operated it upon the cadaver, hoping to do it for him himself, as thoroughly as possible, but unfortunately the tronand was amazed to find how simple and easy the ble has returned. He agreed with Dr. Hamilton that whole procedure was; and he is sure this will be the disease frequently takes on a malignant character. experience of any of the members of this Society who may wish to try it.

row's remarks might be construed into a reflection on he is now more comfortable than he has been for modern surgeons. The operation of which he speaks fourteen years. is one of the simplest which can be performed on the urethra. He himself had performed it four times were able to treat these troubles so easily and sucwithin the last few months for various reasons. The cessfully. We must do the best we can for these patients were suffering from ruptured urethra, stric-patients, and give them the benefit of every chance. ture, urinary infiltration, or some other trouble calling He wondered if there would not be less liability of for this operation, which is nothing more than the a recurrence after an early operation following an median operation for stone. It is not the bouton- early diagnosis. He thought there should be no difnière operation devised and practised by Dolbeau, ficulty in diagnosticating between hemorrhage from That surgeon, after an incision, used dilators for the bladder and blood from the kidney. widening the membranous portion of the urethra.

DR. Hamilton did not wish to be understood as The operation as described by Dr. Yarrow, and as speaking against the operation because the tumor practised everywhere, cannot be a difficult one, for it may recur. If he had held such a belief he would would be almost impossible for the surgeon to miss not have operated three times on the case cited. the large groove of the staff previously introduced ate without the presence of a staff in the urethra.

bladder.

DR. J. B. HAMILTON desired to call attention to In order to distinguish between hæmorrhage from the applications of nitric acid were successful. after removal. He had removed one from the cheek papilloma present. three times within a year-in January, May, and October last. They are also prone to take on epithelial transformations by reason of cell substitution. The mere removal of a papilloma from the bladder does not give assurance that it will not return.

As to the method of operation, the only philosophical way is to cut through the perineum. This operation is sometimes difficult and sometimes easy. THE RELATION OF BACTERIA TO CERTAIN PUERPERAL Last summer he operated twice on account of impassable strictures. He operated without a guide. hour and fifteen minutes performing the operation, from these maladies in the General Hospital at Vi-

masters of surgery, in the mere reading they appear strictures. So it might be with the attachments of very simple, but when we come to put into practice the tumor. Generally, however, the operation is easy.

DR. THOMPSON said he had that day been consult-

Dr. Yarrow could not see that the mere fact that the tumor might recur should prevent an operation. DR. J. FORD THOMPSON said some of Dr. Yar- The man would certainly have died before this, and

Dr. A. F. A. King was glad to know that surgeons

Dr. REYBURN said that a diagnosis was easy soon into the bladder. It is much more difficult to oper- after the tumor made some progress, from the fact that small pieces become detached and are voided DR. YARROW replied that he was quite well aware with the urine. The amount of tenesmus caused by that Dolbeau had invented the boutonnière opera- the presence of such a growth in the bladder is very tion; but he also knew that Sir Henry Thompson had great. He recalled some of the incidents of a case applied it to the removal of these tumors from the which he reported to the Society some time ago, in bladder. He had brought this case to the attention which the patient died after weeks of excruciating of the Society in order to show the ease with which anguish. Whilst the operation is an old one, it is papillomatous growths could be removed from the new in its application for the removal of papillomatons growths of the bladder.

Dr. A. Y. P. Garnett related the case of a female several points in the case under discussion. It was whose urethra he dilated for the purpose of applying of course necessary that a proper diagnosis be made. styptics to a growth at the neck of the bladder. Two kidney and hemorrhage from the bladder, he would thought it would be difficult to distinguish between suggest the exhibition of gallic acid, which would the hæmorrhage caused by a villous thickening of stop the hæmorrhage from the kidney, but would have the lining membrane of the bladder and hæmorrhage no effect upon the hæmorrhage caused by a papil-due to a papillomatous growth. But these villi do loma. He had recently used this acid with good re- not offer such resistance to the contractile powers of sults in some cases of carcinoma uteri. In other the bladder, hence when they exist there is not such situations as well as the bladder papillomata recur thickening of the vesical walls as where there is a

#### CYNECOLOGICAL SOCIETY OF BOSTON.

Stated Meeting, November 12, 1885.

The President, H. O. Marcy, M.D., in the Chair. Dr. Ernest W. Cushing made some remarks on PROCESSES.

These observations were based upon the results of In one case he was twenty minutes, in the other an examination of the bodies of such women as died enna, last spring. He mentioned the great difference to constitutional rather than local treatment. Dr. between the customs and rules governing the obstetric assistants and students in Berlin and Vienna. In ined for pelvic trouble where he found the rectum Berlin every care is taken to avoid infection, either greatly distended by faces. The patient said that from foul hands or instruments or from the clothing such could not be the case, as she had suffered from or hair. In Vienna many of these precautions are diarrhea for several days. It proved that a canal omitted, and students are permitted to attend autop- had been formed through the feecal mass through sies and operations on the same day. Obstetric op- which the diarrhoad discharges had taken place. The erations and laparotomies are performed before the speaker had used for years with great success the whole class, without spray, and the chief assistants following pill in cases of habitual constipation: R. give operative courses upon the cadaver every after- Pil. hydrarg., grs. iii; ext. hyoscy and ext. colocynth, noon, relying for safety upon washing, bathing, and aa, gr. i. change of clothing. In spite of this seeming carelessness sepsis in puerperal cases is rare; this would school teacher who presented herself for treatment seem to be an argument that puerperal septicæmia and stated that her bowels were regular. Treatment is not an entity that floats about in the air and enters' was carried out for some time without any improvethe system through the lungs, etc., but that it is due ment. More careful inquiry in regard to the state of to the development and propagation of bacteria in- the bowels revealed the fact that they "moved regtroduced into the system directly from fingers, in- ularly once a month." struments or applications.

Dr. Cushing stated that the most frequent cause of of the bowels. infection was the streptococcus; the next the staphycillus pyogenis fœtidus. The streptococcus occurs in called attention to a chains; the staphylococcus in bunches like grapes. NEW AND SUCCESSFUL AGENT IN THE TREATMENT OF One or other of the above species was found in every acute case, either in the iliac or uterine veins, or both. In pelvic abscesses they are found in the lungs and joints wherever metostatic abscesses are found. Microscopic preparations of the above were shown and specimen cases described.

In the discussion of Dr. Cushing's remarks the question arose in regard to the pathology of the chill which is so frequently noticed in pyæmia and other processes.

Dr. Z. B. Adams thought that in many cases the chill was not due to the presence of micro-organisms, but was simply a nervous manifestation due to hæmorrhage. nerve-irritation. The chill which follows catheterization was due simply to the irritation of the catheter carried to the nerve centres through the nerves Rigors may occur from abscess when the abscess is separated from the surrounding tissues by impermeable walls.

Dr. Warner thought that chills are not always due to the presence of micrococci, but may be due To the Editor of the Journal: to different causes in different cases.

the chills which precede or accompany catheterization are due to infection from foul instruments or Medical Association, has suggested the idea that some catheters.

Dr. H. J. HARRIMAN then read a paper on

HABITUAL CONSTIPATION IN WOMEN, ITS CAUSES AND EFFECTS.

(See page 150.)

DR. WARNER said that the condition of the bowfull evacuations will often secure better results than, that its greatness is, in great part, due to its Branches. any local treatment. Whatever success he had had in treating the diseases peculiar to women was due tion of such Branches must be (1) some provision on

DR. WM. G. WHEELER mentioned the case of a

Dr. Marcy mentioned a case at Block Island in As a result of the examinations above mentioned which thirty-one days passed without an evacuation

THE PRESIDENT then read a communication from lococcus, with which is frequently associated the ba- Dr. H. C. Ghent, of Belton, Texas, in which he

VESICAL HÆMORRHAGE.

A patient was operated on for vesico-vaginal fis-Wound healed by first intention. On fifth day after operation a furious hæmorrhage from the bladder occurred, and persisted for more than two days in spite of every effort for its control. The loss of blood was fearful. As a last resort equal parts of iced water and apple vinegar were injected into the bladder. Before a pint of the mixture had been injected the bleeding ceased and did not recur. Dr. Ghent raises the question as to whether vinegar or acetic acid has been before used for vesical

# DOMESTIC CORRESPONDENCE

#### BRANCHES OF THE AMERICAN MEDICAL ASSOCIATION.

Dear Sir:-Some recent conversation on the sub-DR. CUSHING maintained that catheter fever and ject of the formation of Branches of the American Medical Association, similar to those of the British steps might be taken with this end in view at the coming meeting of our Association in St. Louis. That the formation of such Branches would be for the good of the profession generally, and therefore of the Association, cannot be questioned, unless we shut our eyes to the advantages derived from the system in Great Britain and her Colonies. The late Guéneau els should be an important consideration in the treat- de Mussy said, a short time before his death, that the ment of all cases. Generally they will be found con- British Medical Association was the greatest medical stipated, but careful attention to secure regular and organization in the world; and it is not difficult to see

It seems that the proper steps towards the forma-

the part of the American Medical Association by ness proceedings of the Societies should not be pubwhich those who are already members of the Associa-lished in the journal of the Association, and let the tion may form themselves into separate bodies papers be published wherever the authors may elect. (Branches), which shall be so constituted, and have Such is the plan adopted by the Branches of the such powers and privileges, and be subject to such British Medical Association. It could scarcely be obligations, as shall be determined on by the As- supposed that all the papers could be published in sociation in general meeting; (2) a provision by which one journal. societies composed of members and non-members of the Association may, upon application form them- be comparatively small; the dues for the Bath and selves into Branches, under the same rules and regu- Bristol Branch are only four shillings a year (less than lations as stated in (1); (3) a provision empowering a dollar). The regulations of the Branches of the Branches thus formed to admit members of the British Medical Association seems to be very similar regular profession in good standing to membership to those of our State Societies, with the addition that in the Branches, and thus to membership in the each Branch has a voice in the General Council of the Association.

Branch of a State Medical Society would scarcely be titled to elect one representative to the Council, feasible, for two reasons: 1. The members of the and every Branch consisting of more than 200 State Society would object to being deprived of their members is entitled to elect an additional representaliberty in this way, and being made a dependency in- tive member for every complete 200 members of stead of a sovereign society. Regarding this ques- which it consists.) It may be remarked here that the tion there is much to be said on either side. The General Council of the British Medical Association objects of the State Societies and of the National is for the purpose of taking a great deal of the busi-Association are the same; the promotion of medical ness details out of the hands of the Association, and and the allied sciences, and the maintenance of the honor and the interests of the medical profession. The By-laws of the Association regarding Branches are as follows:

1. Any number of memmembers, and those members would also be members | bers, not being less than twenty, may form themselves of the National Association. The ties uniting the into a Branch of the Association, subject to such State Societies (or Branches) to the American Med-Branch being recognised by the Council. 2. Each ical Association would be similar to those uniting the Branch shall be free to govern itself as its members States to the General Government. There can shall see fit; but no Branch law shall be valid which, scarcely be a doubt that the profession in the differ- in the opinion of the Council, may contravene any ent States will be brought more closely together, and fundamental law of the Association. 3. Each Branch in this way the medical men of the whole country; shall pay its own expenses, and no Branch shall be questions and methods of medical reform will be more deemed for any purpose the agent of the Association, easily settled and prosecuted; and altogether the advantages would outweigh the disadvantages.

altogether. There is no good reason why the busi- should not belong to a

In great Britain the dues to the Branches seem to Association, through its representative elected at the It has been suggested that the making of a large general meeting of the Branch. (Every Branch is en-

The Branches of the British Medical Association 2. A second question as to finances would come up now number thirty-four, exclusive of Colonial when it was proposed to ask State Societies to become Branches of the American Medical Association. For example, the members of these Societies pay a many members of the Association do not belong to certain sum each year as dues, part of which is for any Branch). Can there be any good reason why the publication of the Transactions of the annual the American Medical Association should not soon meeting. It might be said that every member could become as powerful as our sister Association across not well afford to pay his dues in the State Society, the Atlantic? If there be any objections to the proand his Association dues in addition to this; and con- posed system, would it not be well to put them forsequently, if the whole State Society becomes a part ward now, in order that they may be avoided or met, of the National Association the Association should as the case may be? Would it not be well for some secure to the members of the Society the publication of the members of the American Medical Association of their Transactions. Two answers may be made to discuss the subject in The Journal, so that some to this: The number of members of a State Society action may be taken at the next meeting of the Aswho cannot pay the two sets of dues is extremely sociation, in St. Louis in May? Anyone who will limited; so small that it may be practically eliminated.

Again, the value of the average State Society Transactions, as printed, is very little, and the published do not belong to any medical organization at all. Transactions could be easily and even profitably dis- Even in some of the most populous States there are pensed with in some cases. All sorts of papers, from numbers of counties without any medical society; good to very bad, are mixed in them. In some cases and in many of the counties in which medical societies the time for papers is limited, as well as the space for exist, there are numbers of medical men who have any one paper in the published Transactions, and the no connection with them. If the plan suggested in papers often go out into the world half printed, and this communication should be carried out, there seems with some important discussion or conclusions omitted to be no reason why nine-tenths of our physicians

To the Editor of the Journal:

various expressions of opinion concerning the sub- as most doctors are of the law, and that is saying a ject of protection against blackmail, published in great deal. In a case in which I was interested a year THE JOURNAL of January 30. In considering such or so ago, the counsel for the plaintiff, a well-known a question as this it is useless to rail at "shysters," trial lawyer, betrayed the most colossal ignorance of or to assume that every action for malpractice is a the affection in question. To retain an attorney and case of attempted blackmail. So far as my observa- expect to teach him the science of medicine and tion extends, the average lawyer is no better, and cer-surgery by defending malpractice suits, as suggested tainly no worse than the average doctor; and so long by one of the correspondents, would be rather a peras human nature is unchanged I suppose that there ilous undertaking for the unfortunate defendants who will be both shysters and quacks. Without doubt happen to furnish the first series of cases-I had almany cases of malpractice exist which never find most said cadavers. That the attorneys do as well Hotz in the discussion of Dr. Doering's paper.

able physicians refusing to countenance such suits not well acquainted. by abstaining from criticism, and by being a little more cautious in giving so-called expert testimony; the acquaintance of one another so much as their (b) by taking some pains to learn what their rights interests require. A medico-legal society would be and duties are; and (c) by paying more attention to useful in this respect, but I doubt whether it could be the preservation of evidence in all cases in which maintained in this busy city, where the race for wealth

being raised.

the matter deserves serious consideration. While fession in this city would afford suitable facilities for there is no doubt that membership in such an associ- attendance upon autopsies, etc., to such persons as ation ought not to affect the decision of the issue in feel inclined to cultivate this department, I doubt not a malpractice case, still there is no doubt whatever persons could be found, both honest and capable, who that on cross-examination the fact of such member- would specialize in this direction. At present I beship would be made to appear. To foretell the effect lieve that New York is the only city in this country of such a fact upon the average jury would require in which anything has been done in this direction, omniscience. It ought not to prejudice them, pro- and I do not know to what extent such efforts there vided the association appear to be for the purpose of have proved successful. Again, I think that our protection against vexatious and groundless actions, medical schools should pay more attention to the and provided it be made distinctly to appear that subject of medical jurisprudence. So far as my obevery case is impartially investigated, and the prose-servation extends very few physicians are well incution of well-grounded actions encouraged instead formed upon this important subject, and I think the of discouraged. As to any attempt by such an as fault lies with the medical colleges. The subject proper cases, even to the extent of disclosing professional secrets, I have no doubt whatever that, in the present state of the law, which needs amendment in this respect, such attempt would be unlawful.

such an association might not discourage champertous dence for the first time as a defendant in a malpractice contracts between attorneys and blackmailers; in suit, or when cross-examined in open court, is not other words, discourage taking cases on "spec," to most felicitously situated either for giving or receivuse the words of the worthy Samuel Weller in the ing instruction. In conclusion, permit me to suggest famous case of Bardell vs. Pickwick, by instituting that a special meeting of reputable physicians be of such practices; for there is no doubt whatever that ison of views by word of mouth will accomplish more taking such cases on shares is to-day a criminal of- in one evening than can be done by a year's writing.

Some twenty years' experience in the study and practice of the law and several years' study of the

MUTUAL PROTECTION AGAINST BLACKMAIL. subject of legal medicine lead me to think that many of the groundless suits would be shorn of many of their terrors were the defense more efficiently con-Dear Sir :- I have read with much interest the ducted. Most lawyers are as ignorant of medicine their way into court. I do not think that any re- as they do, however, is a high compliment to the prospectable lawyer would bring a case which he thought fession; but to expect that a non-medical man can groundless; but I am quite certain that many medical be able to "cram up" on a case so as to understand men of apparently good standing in their profession the subject in all its relations, in the short time at his are open to the criticism so well expressed by Dr. command, is expecting too much; they must be supplemented by the doctors themselves, or must be In my opinion, much more can be done in the way medical men. It is manifestly impossible and highly of preventing suits than has been attempted. This dangerous to a cause to examine or cross-examine a may be accomplished in several ways: (a) by reput- witness upon a topic with which the examiner is

I do not think that lawyers and doctors cultivate there is a possibility of a question of malpractice absorbs so much attention. In Continental Europe and Scotland the practice of legal medicine is rightly As to the association discussed in your columns, made a specialty. If the members of the medical prosociation to prevent physicians from testifying in should form a part of the course of every law and medical school, and should be taught by one who is sufficiently well informed to give the students such practical information as will enable them to know their rights and duties in advance of a suit for mal-It is worthy of consideration, however, whether practice. The doctor who studies medical jurispruprosecutions for champerty against attorneys guilty called for the discussion of this subject. A compar-I am, respectfully,

MARSHALL D. EWELL, M.D.,

170 Washington St., Chicago, February 2, 1886.

#### COCAINE; WHAT WAS ITS INFLUENCE IN with its effects as to request its administration with THE FOLLOWING CASE?

TO THE EDITOR OF THE JOURNAL:

of clinical evidence as to the value and effects of coin the Missouri State Lunatic Asylum No. 2:

years, married 20 years, mother of four children, attempts to leave home alone, by day and night, perceptibly swollen, the eyes dull, pupils motionless, She became despondent and melancholy, feared injury and death, destroyed her clothing and the furniture, did not eat or sleep much, had periodical attempts to leave more discolored than the right. restless and discontented.

erable of beings, and expressing a desire to change her surroundings where sympathy could not reach so for giving minute details of the case. The following unworthy and wretched an object. She was removed conclusions have been arrived at from the observed from the Asylum by her husband in June, 1885, hav- effects of cocaine, which has been administered very ing remained under treatment for six months. She extensively to the insane within the past five or six was greatly improved, both in physical and mental months: condition, when removed.

cholic state than when first she came under observa-upon the heart and vascular system. tion. She had attempted snicide, and was completely her second state was altogether worse than the first. On November 2 the use of hypodermic injections of slept better; but her melancholy was as profound cr's opinion. and her lamentations as distressing as usual. At this of systemic disorder.

The cocaine had a pleasant effect upon her, always acting as a cerebral and nervous stimulant, and it exhilarated and enlivened her for from one-half to one hour after the administration. She was so pleased

great earnestness. It always increased the pulsations of the heart from twenty to twenty-five beats, and the sphygmograph uniformly indicated very con-Dear Sir.—With the view of increasing the amount siderable increase of arterial tension. It did not produce nausea or loss of appetite, nor did it procaine, I submit the following history of a case treated duce uniformly marked paleness of the surface, which the Missouri State Lunatic Asylum No. 2: is one of its chief primary characteristic effects. Esther C., admitted October 21, 1884; aged 39 Nothing indicating illness was noted at the time when the last evening portion was injected, but duryoungest 21/2 years old. She was a strong, healthy ing the night she complained of pain in her head, woman until four years after marriage, about which especially on the left side, and she became restless time she became affected with some uterine trouble, and sleepless. On the following morning the temand was never strong and well afterwards. She had perature rapidly increased, and the pulse also innever any acute serious illness. Eighteen months creased in frequency and force, indicating serious previous to admission the first symptoms of mental constitutional disturbance. The surface of the exderangement were observed, manifested by neglect tremities was pale and cool. The face was discolof maternal and household duties, and by frequent ored, bluish, turgid and puffed. The eyeballs were tacks of excitement and violence, and threatened to head, and articulation and vision were perceptibly kill herself and baby. She had delusions in regard impaired. She could not be aroused to give an into religion. There was no insane heredity, but her telligent reply to questions. Delirium soon supermother was an exceedingly nervous woman. Her vened. The discoloration and swelling of the face expression was anxious and distressed, and she was continued. The circulation of the extremities diminished. The balls of the eyes rapidly protruded, and The thoracic and abdominal organs were sound, within a few hours they had protruded so far that the and performed their functions very well. Cervical lids could not cover them. The balls felt hard, dense and corporeal endometritis existed, associated with and resisting. Violent delirium passed into profound profuse vaginal leucorrhoea. She was greatly de coma, which terminated fatally within thirty hours pressed and profoundly melancholic, constantly la-from the time the last injection was given. Unfor-menting and complaining that she was the most mis-tunately, no autopsy could be obtained.

The importance of this subject requires no apology

1. It is an agent possessed of great potency. It In September, three months after her removal, she acts primarily with great power and celerity upon the was re-admitted in a much more deplorable melan-cerebral and spinal nervous system, and secondarily

2. From its potency and rapidity of action it is inconsolable. Her physical condition was low, the liable to initiate organic lesions and functional disuterine disorder and leucorrhea had re-appeared, and turbances which are uncontrollable. It is not uniform in its action, and therefore is an uncertain agent.

3. Its effects are too transient and unstable to behydrochlorate of cocaine was commenced, Dr. A. P. come a reliable and efficient remedy in constitutional Busey administering one grain at 9 A.M., and the or organic diseases. The approdisiac effects attrisame quantity at 4 P.M. This was continued for buted to it have not been observed, neither have the thirteen successive days. At this period her physi- intense nausea and inability to vomit been observed. cal condition had improved, she was stronger and Its permanent beneficial effects in melancholia and better nourished, her appetite was better, and she allied affections are not established facts, in the writ-

4. As it is an agent of great potency, and as it is time there appeared several irritable boils upon the under trial to determine its limits of usefulness and face, scalp and neck, which was the only indication danger, it should be prescribed with increasing precaution and discretion. GEO. C. CATLETT, M.D.,

Physician and Superintendent of State Lunatic Asylum.

St. Joseph, Mo., January 30, 1886.

## BOOK REVIEWS.

Professor an der Universität Strassburg. Figuren in Holzschnitt. Svo. pp. vi, 146. zig: Verlag von Wilhelm Engelmann. 1885.

BACTERIA. By A. DE BARY, Professor in the University of Strassburg. Leipzig: Wilhelm Engel-Chicago: Koelling, Klappenbach & Kenkel.

Professor de Bary is well known to bacteriologists and biologists by the three works from his pen which have already been published: "Die Fruchtentwickelung der Ascomyceten," in 1863; "Die Mycetozoen," in 1864; and his greatest work, "Vergleichende Morphologie und Biologie der Pilze, Mycetozoen und Bacterien," 1884. The purpose of the little work now under consideration is to give an insight into the nature of bacteria, but the author states in his preface that one must not expect to find a complete treatise on bacteriology.

The first six chapters, covering fifty pages, are devoted to the biological and histological study of bacteria in general. Then comes a chapter relating chiefly to the subject of fermentation; chapter VIII is devoted to the Saprophytes. The subject of fermentation is again taken up in the next chapter. The remaining chapters deal with the parasitic bacteria, including a general discussion of parasitismus. The harmless bacteria of warm-blooded animals are discussed in a short chapter, Milzbrand and Chickencholera in one of eighteen pages, and the "Causative Relations of Parasitic Bacteria to the Infectious Diseases of Warm-blooded Animals" in one of twenty pages. The last chapter concerns the "Bacterial Diseases of the Lower Animals and of Plants."

It will be seen by this short account of the scope of the work, that methods and questions of cultivation of bacteria receive but very little attention. Nevertheless, the work contains a vast amount of interesting reading and positively useful material-material that cannot be obtained in such concise form in any other work of which we have any knowledge. It is completed by a good index.

PRACTICAL SURGERY: INCLUDING SURGICAL DRESS-INGS, BANDAGING, FRACTURES, DISLOCATIONS, LIGATION OF ARTERIES, AMPUTATIONS AND EX-CISION OF BONES AND JOINTS. By J. EWING MEARS, M.D., Lecturer on Practical Surgery and Demonstrator of Surgery in Jefferson Medical College, Surgeon to St. Mary's Hospital, etc. With 490 Illustrations. 8vo, pp. xii. 794. Philadelphia: P. Blakiston, Son & Co. 1886. Chicago: W. T. Keener.

As a convenient work on practical surgery, this, the second edition, is much in advance of the first. Three new sections-on fractures, dislocations, and resections-have been added, and enhance the value of the book, and the section on antiseptic dressings has, of course, been almost entirely rewritten and much improved. Indeed, it is not sufficient to say are not members of the Association, should be for

very clear and concise statement of the antiseptic methods of surgery.

Of the chapters devoted exclusively to surgical VORLESUNGEN ÜBER BACTERIEN, VON A. DE BARY, technics, the one on excisions is perhaps the most Mit 18 pleasing, and of this chapter the part on excisions of Leip- the face. This is only natural, in view of the fact that the author has won an especially enviable reputation in this particular field of surgery. Though there may be a few points on which many surgeons would differ from the author, as a whole the work is excellent; the student or practitioner who follows it intelligently cannot easily go astray. We could wish that a chapter had been added on operations on the abdominal and pelvic cavities, and on the operations for hernia.

## ASSOCIATION ITEMS.

INFORMATION OF IMPORTANCE TO ALL MEMBERS OF THE PROFESSION IN AMERICA.

MEMBERSHIP IN THE AMERICAN MEDICAL ASSOCIATION.

MEMBERSHIP .- Every one who attends an annual meeting of the Association as a delegate pays at that time five dollars, and thenceforward becomes a Permanent Member. He continues as such as long as he remains in good standing in the body from which he was originally sent as a delegate. As a Permanent Member, he must pay Five Dollars Annually, when notified by the Treasurer, whether he attends the meetings of the Association or not. Payment of annual dues entitles him to receive the weekly JOURNAL of the Association for one year.

MEMBERS BY APPLICATION are such as have not become Permanent Members in the manner above indicated, but apply to the Trea urer for membership, forwarding at the same time to him five dollars and the certificate of the President and Secretary of their State or local society, that they are in good standing in such society. They pay five dollars annually thereafter, when notified by the Treasurer. Members by application can join the Association at any time, and they receive regularly the weekly JOURNAL.

WHEN DUES ARE PAYABLE.—The annual dues from Permanent Members are payable to the Treasurer at the time of the annual meeting of the Association, or immediately thereafter. The payment entitles the member to receive the JOURNAL for one year from the following July. Payment for 1885, for example, entitles the member to the JOURNAL from July, 1885, to June, 1886, inclusive.

As some of the members have not yet forwarded to the Treasurer their dues for 1885, they are urgently requested to do so at an early day. Having entered upon another year of membership, they are morally and legally responsible to the Association for the payment of their annual dues, having already received for three months of the new year-1885-the Jour-NAL of the Association.

Subscriptions to the Journal, from those who that it has been much improved, since it is now a warded to the office of publication, 65 Randolph Street, Chicago, and not to the Treasurer; but all or smiling, without any reason whatever, etc. While Treasurer, Lock Box 1274, Philadelphia.

who is in regular receipt of the JOURNAL, dies, his latter being bought of a Corean hawker. On hearfamily or other representatives are requested to in- ing the work "oil" (masto) spoken by their comform the Treasurer at once of the fact.

few members of the Association are still in arrears spite of all entreaties and injunctions. In view of the amounts for which they are indebted to the and purgatives in every case. The patient, slept Association.

scarce.

RICHARD J. DUNGLISON, M.D., Treasurer. Lock Box 1274, Philadelphia, Pa.

#### MISCELLANEOUS.

MIRYACHIT.-In an editorial note on this subject the British Medical Journal says: Etymologically the term mir vachit is decidedly a failure, originating from a defective knowledge of Russian. Mirvachit, or, as it should be written, miriatchit, means literally "he or she fools," or "plays the fool." It is derived from the verb miriatchitje. The verbal noun is miriatchenie (fooling or playing the fool); he or she who miriatchit, is miriasha. Hence-if it be desirable to retain a Russian word-it would be more sensible to call the disease *mirratchenië*, as it is called in Russian, instead of miryachit (he fools). In the 1 ratch, No. 36, 1885, p. 602, Dr. Jankovsky publishes an interesting note on an epidemic of this curious neurosis, which has come under his observation in the Littoral District of Eastern Siberia. He first came to be acquainted with mirrashas in this way. One fine evening in 1876, shortly after he had been appointed surgeon to the 1st Eastern Siberian Infantry Battalion, a feldsher (assistant surgeon) on duty hurried to him with a startling information that fourteen "mad" soldiers had been brought to the hospital. On his arrival, the author really found a crowd of the patients, and, naturally enough, addressed to them the question, "What is the matter with you?" To his greatest astonishment, all fourteen addressed him in chorus, "What is the matter with you?" He tried then to put the interrogation in another way, "What ails you?" The answer followed again, "What ails all you? In short, every word of the medical man Col. John E. Summers, Surgeon U. S. Army, retired from ac-was simuly echoed by every one and all of the pa-tive service, by operation of law, Jan. 24, 1886. (S. O. 20, tients. On examination, he found, in every individual case, increased apex-beat, rapid pulse, extreme nobility of the limbs, (especially of the hand), somewhat increased cutaneous sensibility, dilatation or contraction of the pupils, gay disposition, laughter,

payments of annual dues must be forwarded to the the author was examining the patients, an officer in command arrived, and informed him that all the men DEATHS.—When a member of the Association, had had for their supper potatoes with hemp-oil, the mander, all the soldiers suddenly went on with PAYMENT OF DUES FOR PREVIOUS YEARS.—As a repeating "Oil, oil, oil, in all possible manners, in for payment of dues for 1883 and 1884, they are the fact that one of the patients vomited, and after requested to forward at once to the Treasurer vomiting ceased to "fool," the author ordered emetics quietly through the night, and on the next morning Transactions of the Association.—These an- all were well, being able to only vaguely recollect the nual volumes, thirty-three in number, to 1882 inclu- events of the previous day ("as if in a dream"). sive, may still be obtained, with few exceptions, from An inquiry elucidated that the Corean oil-merchant the Treasurer, at reduced prices. The Index to was a mirrasha, and that "fooling" attacked only these volumes will be forwarded on receipt of One those soldiers who had seen and spoken to him. An-Dollar. An opportunity is thus afforded to complete other case of multiple miriatchenie was observed by sets of these valuable publications, or to obtain im- Dr. Jankovsky in Vladivostok in 1878, in four children portant papers and works which are daily becoming of one family, aged from 3 to 7 years. Sporadic cases of "fooling" were met with by him very often. As a rule, the disease is chronic, and apt to spontaneous remissions. It begins mostly under the influence of contact with a miriasha, but sometimes is hereditary. It attacks only natives and "well acclimatised" immigrants, and here again only children and subjects of a "low intellectual level." The general health of the *miriasha* remains intact. The disease usually does not interfere with the occupation of the patient. It is obviously a form of "epidemic male hysteria."

> PROGRESS OF SMALL-POX AND CHOLERA.—From the circular of the National Board of Health, dated January 27, 1886, we take the following results of small-pox in Montreal up to January 20, 1886. During the week ending Jan. 21 there were 10 deaths in the city and 6 in its suburbs. The total number of deaths from small-pox in the city of Montreal from the beginning of the epidemic in April to December 31, was 3,164, as follows: In April, 6; May, 10; June, 14; July, 46; August, 239; September, 659; October, 1,393; November, 633; December, 165. There were also 363 deaths from measles, typhoid fever and diphtheria during the year, and the total mortality from all causes during 1885 was 7,885 as against 4,358 during 1884. Consular reports from different parts of Europe show that the disease is decidedly declining as a whole.

> From the same sources we learn of the continued prevalence of cholera moderately in the Province of Huelva in Spain, and in the single Department of Finisterre in France.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTTES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM JANUARY 23, 1886, TO JANUARY 29, 1886.

A. G. O., Jan. 25, 1886.)

Major Wm. E. Waters, Surgeon, granted leave of absence for one month and fifteen days. (S. O. 5, Div. Atlantic, Jan. 23, 1886.

Asst. Surgeon J. M. Banister, ordered for temporary duty at Ft. Warren, Mass. (S. O. 16, Dept. East, Jan 23, 1886.)

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

PUBLISHED WEEKLY.

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CHICAGO, FEBRUARY 13, 1886.

No. 7.

# ORIGINAL LECTURES.

EPILEPSY-TORTICOLLIS-IRRITABLE HEART.

A Clinical Lecture Delivered in the Jefferson College Hospital.

BY ROBERTS BARTHOLOW, M.D.,

OF PHILADELPHIA, PA.

PROFESSOR OF MATERIA MEDICA AND THERAPEUTICS IN THE JEFFERSON MEDICAL COLLEGE.

We have here a woman approaching the climacteric period, who tells us that she has had four well-marked attacks of convulsions since she was 17 years of age, the last one occurring at night when she had several convulsions; between these well-marked attacks she has frequent less severe "spells," characterized by vertigo, more or less confusion of thought and speech in several members of which there is a well-marked of which we will order one drachm, morning and history of epilepsy.

petit mal and grand mal, between which there is a other functions, and if we find any derangement we vast gulf; a vast chasm separates the words epilepsy will remedy it. and epileptiform. As a rule, true or essential epilepsy begins at puberty, while epileptiform seizures trifling case to bring before you, but it offers some may commence at any period of life. If the seizures very interesting points. I have repeatedly impressed begin at the age of 30 or 35, they are most likely dependent upon some organic disorder, and very frequently it is a tumor of the brain. In true epilepsy there is not always discoverable any gross lesion, in this case without asking a question. The external in this case without asking a question. The external though of course some lesion must be present, and it expression of parts, the features will reveal much, can occasionally be found. Habit, in neurotic per- and it will repay you to cultivate the habit of close sons, may be a cause; that is to say the nervous sys- observation. You may recall the old adage, "Show tem forms a habit, just as there is a habit of taste or me your ear and I will tell you who you are, whence smell or any other kind of a habit; but, of course, you came and whither you go." There is much in habit plays but a small part in the causation.

out for some reflex cause; inquire about the aura, I notice that she holds her head in a constrained powhich may give some clue to the origin, though it is sition; when at rest it is drawn somewhat backwards referred to the stomach. It is of the utmost importance to inquire at what times the attacks occur, much more important than you would suppose, for attacks that occur at night are much less amenable to treat-toid muscle is rigid, as is also the trapezius, the anment and are much more obstinate. Mild seizures terior edge of which stands out. The muscles of and those occurring at long intervals are likewise the opposite side seem relaxed. very obstinate. Those attacks that occur in the day We have here, then, a case of torticollis, which is time, with great violence, and are directly traceable one of the most difficult diseases among the minor to some cause, are the most satisfactory because we lills to treat, which statement I am very sure you will can usually relieve them by removing the cause. verify after you have been a short time in practice. They are not infrequently due to the irritation from The muscles of one side are in a state of spasm in

an overloaded stomach; we must always look for outside disturbances and remove them.

If there be any secret in the treatment of epilepsy, it is in regulating the diet. I am sure that more good has come from attention to this one point than from anything else. I am quite sure that it has worked many cures; drugs have a trifling potency compared with a rigid diet. The meals must be small at a time, meat only once daily, and the stomach should never be overloaded, while large draughts of liquid must be avoided, even of water. Fatty food should be interdicted, and but small quantities of starchy or saccharine matter allowed. For drugs, we must remember that this woman is approaching the climacteric period and that the attacks are growing worse, hence our drugs must be directed towards allaying any irritability of the sexual system. This can be and some staggering. She belongs to a neurotic family, best accomplished by the use of bromide of sodium, evening, for the first week, and after that one drachm We have, as you know, two varieties of epilepsy, daily, in two doses. We will also look to all the

Torticollis .- This might seem, at first blush, like a the idea conveyed by this adage, and you should not When investigating epilepsy we must always look forget it. Now when I look closely at this woman,

this disease, while those on the other are paretic. muscles. By these combinations we can generally

that torticollis is especially common among women, rapid rate. There is of course some hypertrophy, and in many of these cases it is associated with uterine trouble. This woman is 49 years old and is now passing through the change of life, it having been constitute a disease. The anemia which deranges mon cause. Inquire always whether it is due to any, and regurgitation of food; she has an insufficiency whether it is purely neurotic from the climacteric; I primary and secondary assimilation. severingly every day.

tic training under the direction of the will, which acid is set free. should be used to educate the weaker muscles to an-

One set of muscles are acting over-powerfully, the cure the disease, if there be no lesion of the nerve, seat of the disease being in the nerves that supply but we will find it a very obstinate disease to handle.

the muscles, there is an irritation of the motor nerve, Irritable Heart.—Here we have a pale, anamic and this irritation excites the muscle to spasmodic woman, in a state of constant nervous tremor, who contraction. In every voluntary movement there is was told some years ago that she had hypertrophy of a contraction of the muscle under the stimulus of the heart, and who ever since has lived in constant the will, but here the will is in abeyance; the over- fear of a sudden death, afraid to go to sleep, afraid acting muscles are hypertrophied, while those on the to leave home, unable to perform her domestic duopposite side are atrophic; the disease is therefore ties, and with life a burden to her. She is now at secondary to an irritation of the nervous apparatus. the climacteric period, but she was excessively ner-All kinds of remedies have been used in vain, but yous even before this time. Upon examination I we can do so much in these cases by attention to find simply a highly irritable nervous system, which little details and can cure the disease if it has not I believe to be mainly due to the high condition of lasted too long. It has been present in this case for anaemia which the woman presents. She has a neua year. The first point is to look for a cause of irri-rotic temperament. The heart is not irritable as we tation to the nerves; is it impinged upon by a tumor, see it in exophthalmic goitre, where it continually a gumma? If so we have clear sailing. May be the pulsates at the rate of one hundred or more; her irritation may be reflex from the uterine system, as heart, while it is now, under excitement, beating at is not uncommon, and in such cases, of course, we the rate of one hundred or one hundred and twenty, can do nothing towards a cure until we remove the will, when she is quiet, drop down many beats; but uterine trouble. It is a fact that I have observed the least emotion will make it drive ahead at a very seven weeks since her last sickness; the uterine irri-the nervous system is in turn due to digestive disortation about the climacteric period is a not uncom- ders, which we find evidenced by heart-burn, acidity disturbance of the stomach or intestinal canal, or of diet and poor digestion; there is a degeneracy of

am inclined to lean to this latter view in the case It is idle to try to relieve this condition of the nerbefore us. We must address our remedies, therefore, vous system, unless we supply it with good blood; it to the nervous system of the climacteric. Galvan- cannot be done with drugs alone; the nervous sysism and faradism will do a great deal of good, and tem must have good blood; we cannot so change the best procedure is to galvanize the overacting and this system as to make it functionate as it would in faradize the underacting muscles; I will use fifteen a person of lymphatic temperament, but we can cells of a small battery, applying the steady, non-ingreatly moderate its erratic manifestations, we can terrupted current on the contracted muscles, and quiet it. We will commence by giving this woman the interrupted current on the paretic muscles; I ten drops of dilute nitric acid thrice daily; in a little prefer the slow interrupted current, for the rapid in- while we will order her a more generous diet, preterruptions will throw the muscles into a tetanic conscribing especially milk and eggs; interdicting stale dition; the slow current should be applied to each bread (of which she eats a great deal), and coca shells muscle in turn and must be used regularly and per- (which she drinks), because she cannot digest the fats; this I know because the eructations or regurgi-A great deal can also be accomplished by gymnas- tations are of an offensive acid character; butyric

We must also leave out starchy, saccharine, and tagonize the stronger; it is wonderful how much can all fermenting foods. Nutrition must be forced; she be accomplished in this direction by the force of the should have milk every three hours, eggs daily, and will. All drugs that have a reputation for controll-meat at every meal, and of meat she should have ing muscular spasm have been tried in this affliction, fresh beef, game and poultry (except veal and duck), and hyoscyamus and gelseminum have done some fresh fish, no salt meat or salt fish of any kind. She good, but they do not cure. Arsenic thrown directly should eat but little bread, substituting for it such into the muscle, by hypodermic injection, has done vegetables as celery, lettuce, or spinach, those that more good than anything else; its use was begun are free from sugar or starch. I am in the habit of empirically, because it was known to do good in telling such patients to eat lettuce in the English chorea, which is a disease somewhat analogous to fashion, that is, to take out the centre leaves and dip torticollis; some very obstinate cases have been thus them in salt. If the patient can have cod liver oil, cured by arsenic. Cocaine, the drug of the day, has without its producing acid indigestion, it should be also been used with advantage, injections of one-sixth given in doses of one drachm in half an ounce of or one-fourth of a grain being made. While these injections are being made into the contracted muscles, strychnia should be similarly used in the paretic eighteen, but at forty-nine there is not so much dansimilation.

full meal, for at that time the blood that exercise the various remedies recommended for accelerating would call to the muscles or brain-work to the brain the dilatation of the os can do no injury unless most is required in the stomach to aid digestion. If this inappropriately employed. The few that cannot be years will prove no demon at all, for there is here duty to accelerate the labor.' only a normal hypertrophy, such as we see in the

## ORIGINAL ARTICLES.

SOME REMARKS ON THE MANAGEMENT OF PRO-TRACTED FIRST STAGE OF LABOR.1

BY HENRY DAVIDSON FRY, M.D.,

because of my belief that the proper management of the first stage of labor is more neglected than any of

Sufficient attention is given to the elucidation and treatment of all the conditions, natural and unnatural, that do and may arise during the progress of the subsequent stages. The consequence is that the general practitioner is ever ready to lend assistance at such times, whilst in the first stage, supported by waiting, like Micawber, not "for something to turn up," but with equal patience for the womb to open. During the weary hours that his patient is suffering

An explanation, in part, for such inactivity is thus given by Lusk:2 "There is an erroneous opinion that, so long as the membranes are unruptured, this condition (the first stage) may be allowed to go on indefinitely." To add to the prevalence of such a dangerous opinion so able an obstetric writer as

ary 13, 1 2 Science and Art of Midwifery. New York, 1 34, p. 424.

ger of establishing a bad habit. A person at fifty Leishman's gives the following advice: "And, even years of age, who has led a temperate life, can take in cases where its duration is prolonged far beyond a little whiskey as food, as alcoholic food, with ad- the average, this of itself is no excuse for interfervantage, but it will do no good to one who has been ence, unless the general symptoms indicate that it is a toper. It is, when properly used, an admirable our duty to accelerate the labor by such means as food, quickly oxydized, and it helps primary as are within our reach—a state of matters which is of rare occurrence." Practically the same statement Oxygen must also be ordered, not as "compound regarding the trivial consequence of prolonged first oxygen," the greatest imposition of the day, but ox- stage is made by Playfair and by Cazeau. In his ygen as we have it in the open air. I am frequently opposition to this view Lusk" continues: "There is asked my opinion about "compound oxygen," and nothing that requires more judgment in midwifery when I explain that the ordinary atmosphere is only practice than to decide when the time has arrived at compound oxygen my inquirers are amazed to think which delay is fraught with more danger than active how foolish they have been to pay a big price for interference. For my own part, I believe that many that which they could obtain for nothing. Exercise fair lives are needlessly squandered because of exshould be enjoined just at the end of digestion, when cessive timidity begotten of imperfect obstetric the food is ready to be assimilated and requires an teachings." Delay cannot be otherwise than fraught abundance of oxygen to complete the metamorphosis. with more danger than active interference when that Exercise should not be indulged in just after a interference is in itself harmless. The majority of woman will follow my advice she will be relieved classed with these may be reserved until, as Leishman entirely, and the demon that has haunted her for has said, "general symptoms indicate that it is our

It is as unwise as inhuman to allow women to suffer the pains of the first stage of labor when protracted for hours beyond physiological limits. The loss of sleep, the want of nourishment, the anxiety of protracted labor, and above all the nervous depression least of all, a slow convalesence, are some of the strumental interference will demonstrate that very many are preceded by slow dilatation of the os. The firmly believe, upon the appreciation of these facts

Childbed.": The following case furnished a theme woman, aged 23 years, who was suffering the pains noon, and that his patient had passed a sleepless

the formation of the bag of waters. Dr. Lusk ad-

<sup>1</sup> Read before the Medical Society of the District of Columbia, Janu

<sup>&</sup>quot;System of Midwifery 1 75, p 27.

System of Midwifery Plala, 1 , pp. 27.

System of Practice of Olsteries, Cazeau and Tablier, Phila, 4, pp. 4, 66.

Linds, p. 425.

JOCKNAL OF THE AMERICAN MEDICAL ASSOCIATION, Vol. III, No.

ization and of artificial refinement, it becomes imper- dilatation of the opening. the current opinion that the length of the first stage wall becomes closely applied and both engage within of labor before the rupture of the membranes is a the pelvic canal. The best example of this is met matter of indifference, a teaching which I believe has with in head presentations, particulary in primiparous cost the lives of many women; in a few, death result cases when the presenting part, enveloped by the ing from shock; in more, the exhausted condition in uterine neck, is often observed nearly or quite down which the woman is left after childbirth rendering her to the pelvic floor at the beginning of labor. Rupture an easy prey to the perils of the puerperal state."

command for accelerating dilatation of the os, I invite is in great part retained. This condition, viz.: the attention to a few facts connected with the mechanism engagement of the presenting part and the lower of this stage of labor. During pregnancy we recog- segment of the uterus within the brim or canal, has nize the existence of two processes; first, the growth an important bearing upon the question of artificial of a body to be expelled; and second, the growth of rupture of the membranes. the organ which is to expel it. The fecundation of Having glanced at the mechanism by which dilathe ovule is followed by segmentation, and, in rapid tation of the os is effected, we are now prepared to order, the developmental changes of embryological formulate the conditions favoring a normal first stage. life. With the beginning of fecundation the musculature of the uterus develops rapidly. The hard fibrous character of the uterine wall becomes replaced by a which, besides possessing the requisite degree of highly sensitive, soft, muscular structure. From the strength, must act in a line parallel to the axis of the early months of gestation to the advent of labor this pelvic brim. The latter condition is necessary in muscular organ is undergoing constant contraction order that the force of the contractions may be made and relaxation, as if impatient to expel the contents. to impinge upon the tissues surrounding the os. As pregnancy progresses the contractions increase in strength, and often imperceptibly merge into true the cervix and lower uterine segment. pains of labor. Several weeks preceding labor the uterine tumor with its contents settles into the pelvic brim or canal, and certain preparatory changes take influence of the sacro- and vesico-uterine ligaments place in the tissues of the cervix. They become soft- may come into action. ened and redematous, and the canal is obliterated.

ministered sufficient chloroform to obtund the sensi- and thinned, and the internal os is gradually dilated. bility of the vagina, and lifted the head from contact Contractions of the longitudinal fibres of the cervix with the cervical walls. The bag of waters then also tend to pull the os open. A similar action is formed and dilatation rapidly followed. At about possessed by the uterine ligaments when descent of two o'clock in the afternoon forceps were applied the uterus favors their coming into play. Each conand delivery effected without further trouble. Post-traction is accompanied by tension of the membranes partum hæmorrhage was promptly arrested by a hot stretched over the os, which, as the os dilates, become vaginal injection. Alarming symptoms developed, more and more convex. The support afforded the the wrist became pulseless, the extremities cold. A bag by atmospheric pressure being less than the intratemporary improvement encouraged false hopes, and uterine pressure, the decidual membranes are slipped in four or five hours after delivery his patient was a down and protruded into the vagina. The difference corpse. Dr. Lusk then took up for consideration of the two forces increases as the os enlarges, and the various causes that may give rise to sudden death consequently the bag of waters forms more quickly after labor. The symptoms of the entrance of air after a certain degree of dilatation has occurred, into the circulation, of thrombosis and embolism, The mechanism is similar to the action of cupping and of nerve exhaustion and shock were carefully glasses, the rarefied atmosphere within the cup represented, and the unhappy termination of the case senting the intra-vaginal pressure. The same forces was attributed to the latter condition. The interest- continued after rupture of the membranes give rise ing paper was concluded by these significant words; to the formation of the caput succedaneum. The pro-"As the nervous organization of woman loses in trusion of the bag with each uterine contraction furpowers of resistance as the penalty of a higher civil-nishes an efficient hydrostatic wedge for aiding further

atively necessary for the physician to guard her from If the presenting part of the feetus be a favorable the dangers of excessive and too prolonged suffering. one, and no disproportion exists between it and the Especially I would raise my voice in warning against maternal passage, the lower segment of the uterine of the sac now gives passage to the "forewaters," Before offering in review some of the means at our while the amniotic fluid surrounding the feetal body

1. Regular intermittent contractions of the uterus,

2. A softening and thinning of the structures of

3. The formation of the bag of waters.4. Descent of the uterus in order that the dilating

Weak contractions of the uterus are witnessed in The first object to be accomplished by intermittent first labors occurring in very young or old subjects. contractions of the womb is dilatation of the cervix. Rapid child-bearing and preexistent pathological con-The muscular apparatus is much less developed here ditions of the uterine structure are some of the influthan at the fundus, it has fewer circular fibres, and is ences leading to such a result. Feeble contractions further weakened by an opening in its wall. The are likewise dependent upon over-distension of the compression of the contents of the uterus, which is uterine walls by excess of amniotic fluid or the prescoincident with each contraction, causes this part to ence of twins. Contractions, although strong, may be bulge because it offers less mechanical resistance, inefficient because irregular and spasmodic. They The lower segment of the uterus becomes softened are generally short and cramp-like in character, with

with these are mental emotions, nervous excitement, which she was allowed to remain upon her back, a filled bladder or loaded rectum.

be prevented by pathological conditions of the tissues. pose of overcoming this uterine obliquity, and in ten Adhesions existing between the decidual and uterine minutes the head was at the vulva. membranes near the internal os may be the means of The proper course to pursue in this case was preventing the formation of the bag of waters. Pau- plainly manifested and promptly yielded its result. city of amniotic fluid and the early engagement of the 1f the cause of delay had been misinterpreted and presenting part within the pelvic brim are additional oxytocic remedies administered, or any inappropriate obstacles to such formation.

the axis of the pelvis arises from malformation of the could not have been looked for. This was the papelvis, or from some disproportion between the diam-tient's tenth confinement, and the preceding pregeters of the presenting part and pelvic brim, or from nancies had so distended and relaxed her abdominal the axis of the uterus and that of the pelvic brim not parietes that sufficient support was not afforded to

being parallel.

ditions that may interfere with the physiological amount twenty-four hours before labor I should study progress of the first stage of labor, conveys some under the head of hydrorrhea gravidarum, a subject idea of the complications to be overcome by treat- which has been worked up thoroughly by a fellow ment. It further teaches the importance of ascer- member of this Society-Dr. T. C. Smith. I would taining the cause of delay in any given case before add that the expulsion of the offspring was followed attempting a plan of action. No fixed rules are laid by considerabe amniotic fluid. down to guide us. Individual experience and close dilatation and will point out the line of treatment most likely to meet the demands of the case. "Trifles light as air" appropriately used will succeed when action. powerful means may not only fail, but do harm if injudiciously employed. The following case illus- assist its dilatation. trates this point:

since. She had not considered it necessary to send certainly do. In fact, much of the good effect attribfor me until just before the hour mentioned, when, uted to the latter class doubtless owes its efficacy to while sitting in a chair, a sudden gush of water satu- increase of uterine action. rated her clothing. She retired, and when I arrived, I. In the first class are placed opium, chloral, and the pad upon which she was lying, which consisted anæsthetics. The most signal benefit follows the of four thicknesses of a quilt, was wet to the rubber employment of these agents in suitable cases. Most cloth beneath. Examination revealed the os dilated confidence can be placed in them when delay accomas large as a silver dollar, the head was presenting, panies irregular and spasmodic pains, and when weak and the membranes were intact. The vagina was contractions are the result of depression and loss of moist, but no fluid came away during the examina- rest from protracted suffering. It has been my lot the discharge. I directed her to stay in bed and to soon completed after the administration of a few send for me on the recurrence of pain. Not having doses of chloral, when seventeen hours of delay had received any message I called about noon, and found previously witnessed no progress of the first stage. the same condition of affairs existing. Two grains of Opium must be given in full dose by mouth, by opium, which were ordered to relieve her of irregular rectum, or by the hypodermatic injection of morphia, pains, restored quiet, she slept some, and was com-chloral by mouth or rectum. The administration of fortable until midnight, when labor set in. About either of these is followed, as a rule, by one of two one o'clock another discharge of water occurred, and effects. There may occur the immediate conversion I saw her an hour later. The bag of waters was rup- of the ineffectual pains into such as produce a favortured, and the head was engaged in the upper part of abld impression upon the unyielding os. Nervous the pelvic canal in the right occipito-anterior position. excitement gives way to quiet, the duration of the The os was dilated as large as the rim of a tea cup, pains is lengthened, and the intervals of repose are its margin was thinned and the superjacent tissue periods of recuperation. moist, soft, and dilatable. While verifying the position of the feetus by means of abdominal palpation, uterine contraction for one, two or more hours, probposed of the gravid aterus was deviated to the right isfactory progress of dilatation. It is a common

little period of repose intervening. Often associated of the median line. For the next half-hour, during strong contractions produced no appreciable change. Organic softening and thinning of the cervix may She was directed to turn on her left side for the pur-

method adopted to hasten delivery, harm might have Failure of descent of the uterus and its fixation in resulted; at any rate the above happy termination keep the gravid uterus in its proper position. The Such a list, incomplete as it is, of the various con-first discharge of fluid which occurred in such large

Treatment.—The most important of the remedies observation will most likely enable us to detect the at our command for accelerating the first stage of nature of the perturbating influences which retard labor will be considered under three separate classes:

First. Pain-stilling agents.

Second. Remedies employed to increase uterine

Third. Remedies applied directly to the os to

This division of the subject facilitates its study, but I was called to see Mrs. P— at 5:30 A. M. of May is open to the objection of inaccuracy. Remedies 21, 1885. Labor pains had commenced the day of the first class often increase uterine action, and before and had annoyed her at irregular intervals any direct application of methods to the os most

The pains had ceased with the appearance of to see dilatation of the os begin promptly, and labor

it was discovered that the whole globular mass com- ably with sleep, and then the return of pain and sat-

experience to witness the cervix relax and dilate taken the place of her nervous excitement. In one during this period of repose. Some writers, among hour and a half only half an ounce of chloroform had them Playfair,8 deny that chloral possesses this power been administered. to annul uterine action, and attribute the beneficial influence of the drug to the former of the two effects tractions were increased, mucus flowed from the above mentioned. On the contrary, I have distinctly vagina, and the os continued to dilate. At 5 o'clock seen such controlling influence follow its administra- the chloroform was withheld for a time and then emtion. Only recently a case came under observation ployed intermittingly until the end of labor. in which 40 grains, given in two doses, produced entire cessation of pain and caused sleep during the of chloroform, the child was born. most part of the succeeding four hours. At the end of that time regular and strong contractions set in, class I will refer briefly to electricity, the introducthe labor, which had lingered all night, progressed rap-tion of the solt bougie, and artificial rupture of the idly, and in less than two hours the infant was born. membranes. The administration of ergot during the The os softened and dilated during the repose.

may be used with the best prospect of success. Such fair, is more applicable to the expulsive stage. labors usually occur in primiparæ, and in women of

highly sensitive nervous organization.

time, and were accompanied by unusual suffering.

3 A. M.—Examination with finger still caused excessive pain, the head was in contact with the peri-uterus and the membranes is an efficient means of neum, and the os was thin and dilated the size of a increasing feeble contractions. It is best made use twenty-five cent piece. The suffering was so great, of when the membranes are intact, at any rate beawakened her. At no time did she inhale sufficient which require manipulation of the cervix. chloroform to produce unconsciousness; she could tell when the contraction reached its acme, and when the most frequently employed of all the means for it was declining.

3:45 A.M. Vaginal examination caused less distress and the parts were moist. More progress was made within this hour than had been the case during plied to the lower segment of the uterus, and when the preceding fourteen hours of suffering. The bag the pains have pushed both down into the pelvic of waters was formed and protruding, and the os was canal, it may be justifiable to rupture the bag, prodilated to the size of a silver dollar. Composure had

4:30 A.M. The strength and duration of the con-

At 7 o'clock, four hours after commencing the use

11. Remedies to Increase Uterine Action.—Of this first stage justly finds little favor at the present day. Anæsthesia, particularly by chloroform, is, at times, Quinine is highly recommended by some for its power the remedy par excellence. The following history of restoring strength to the weakened constructions, demonstrates the class of cases in which chloroform. Manual pressure, so successfully employed by Play-

Attention is now being directed to the value of electricity in obstetrical practice, and from the pub-Case-On Sunday, at noon, Mrs. N. P., a primilished accounts of its action upon the gravid uterus para, was taken with labor pains which were short, excellent results may be expected to follow its use. sharp, and returned every four or five minutes. At One of the most interesting articles that has been eight o'clock in the evening I found the following written upon the subject recently is from the pen of condition: The head had descended almost to the Dr. W. T. Baird, of Texas. Among the indications floor of the pelvis and presented in the R. O. A. for its use he states: "That dilatation of the os is position, the os was the size of a ten-cent piece, and greatly facilitated, thereby shortening the labor in the membranes were drawn tightly over the opening every stage." "This effect," he says, "I have conduring the pains. The contractions were so frequent stantly observed in all the cases which I have treated and painful I ordered 30 grains of chloral to be taken with the current, and it is easy to see that it follows in two doses. The effect was to compose her and as a consequence that, if the current will increase cause drowsiness for awhile, but not to lengthen the the force of the contractions of the longitudinal and intervals of the pains. At 1:30 A. M. she became oblique fibres of the uterus, the os will be more rapnervous and declared she could stand the suffering no idly developed." . . . . His results were obtained longer. She shrank from vaginal examinations in by use of the faradic current, the positive pole being consequence of the painful condition of the parts, applied to the lumbo-sacral region and the negative the genital canal was dry, the os thin and wiry at its to the fundus uteri. An opportunity was recently border, and dilatation but little increased. The presented to make a fair test of its value, and the hypodermatic injection of 14 grain of morphia sul-effect was very decided in increasing the force and phate was given without any apparent result. The efficiency of the contractions, but I am sorry to adpains continued to recurfrequently, to last but a short mit I did not witness the wonderful sedative influ-

The introduction of a soft bougie between the

chloroform. It was magical. She no longer com- assist dilatation, but also increase uterine action. By plained of pain, the contractions increased in strength, adding an antiscptic to the water they exert a twothey lasted longer and recurred less frequently. As fold influence for good, and are particularly useful soon as one passed off she dozed until the next when, at the same time, other means are resorted to

> increasing pains and accelerating the first stage of labor. The procedure is by no means harmless. When the presenting part of the child is closely ap-

<sup>&</sup>lt;sup>9</sup> American Journal of Obstetrics, Vol. aviii, Nos. iv, v and vii, pp. 337, 481, and 719.

vided other means have been tried and failed. It is particularly called for when weak contractions result from overdistension and when delay is caused by adhesions between the lower uterine wall and the decidnal membranes, preventing the os from retracting over the presenting part. It is wiser, under the circular description over the presenting part. It is wiser, under the circular description over the presenting part. cumstances, for the physician to hesitate before adopting a plan that favors laceration of the cervix, the immediate and remote evils of which are too ter of every day observation. That these cataracts can well known. More reprehensible is its performance when the os is high, and when the presenting part

does not engage in the brim. rectly to the eervix to facilitate dilatation. Most im- glasses, has long since been established by thousands portant of these are Barnes' bags, manual dilatation, and efforts to correct displacement of the os, and to blind is now, therefore, no novelty. Experience has favor the formation of the bag of waters. Lusk also taught the surgeon that if good sight is to be New York a pair of forceps which he had designed for dilating the os. This instrument differs from the done very early in life. If the cloud in the pupil be narrow-bladed forceps of Taylor, which is intended allowed to remain for too long a time, during the to pass through a partly dilated cervix, and draw the growth of the child, the retina seems to be arrested os in the line of the axis of the pelvic canal. Such when glasses have been carefully adjusted. Very tion to receive the force of the uterine contractions. ference is the backward displacement of the opening age of 25 possesses peculiar interest. with the thinned anterior lip covering the presenting malposition is corrected. Lateral displacements require the same attention. The abdominal bandage may be needed in a few of the foregoing cases to correct the position of the fundus, or the same result patient. Pushing up the anterior lip when caught is a well recognized procedure.

by making efforts to favor the formation of the bag other eye to be operated upon. When the boy atof waters. When failure is the result of pancity of tained a suitable age he was sent to the Virginia amniotic fluid little, of course, can be done to reme- State Blind Asylum, and was there educated. He dy the difficulty. When due to adhesion of the de- was taught, among other things, to cane chairs, and cidual and uterine membranes these must be broken when he arrived at manhood this became his daily up by sweeping the finger around the inner surface of occupation. When 25 years of age, having heard the uterus as far as it can reach. When the head is what wonderful things were being done by modern early engaged and prevents the fluid from passing to surgery, the desire to see took possession of him, and

remedies employed for protracted first stage of labor, I will conclude by hoping that the members of the Assistant Bishop of the Episcopal Church in Vir-Society will discuss the question and give their views ginia. He brought him to my office and asked that concerning the following points:

1. How great are the dangers of protracted first stage of labor, and is it advisable to interfere?

3. Individual experience regarding the most efficient remedies, and the indications for the use of each.

## OPERATION FOR CONGENITAL CATARACT IN TWEN-TY-FIFTH YEAR: VISION SLOWLY ESTABLISHED.

BY JULIAN J. CHISOLM, M.D.,

That children are born blind with cataract is a matbe removed by absorption under surgical procedures is the experience of every ophthalmic surgeon, and that infants who have been operated upon for cata-III. The last class embraces means applied di- ract can, when old enough, learn to read with proper of witnesses. The acquisition of sight to those born recently presented before the Obstetrical Society of secured to those born blind with cataract, the operation for the removal of the obstruction must be head into the canal. I will call attention only to a in its development by the absence of its normal stimfew points. One is, the excellent result that often ulus, strong light, and the needful sensitiveness of follows so simple a manceuvre as drawing a displaced this membrane for good seeing is never acquired even rarely is useful vision secured to adults who have remained blind throughout their entire growing life, The most common condition calling for this inter- and hence the case now reported of blindness to the

W. B., aged 25, was brought to me in July, 1882, part. The finger should be passed into the os, and for cataract operation. Soon after birth it was disthe part drawn forwards and held in place until the covered that his pupils were not black but were of an ashy hue, which became the more conspicuous with his growth, and was finally diagnosed as congenital cataract. When the blind child had attained two years of age his parents allowed an itinerant ocmay be obtained by changing the decubitus of the ulist to operate upon one of his eyes by the needle puncture. He had promised to make the child see, between the presenting part and the symphysis pubis but as iritis supervened and the pupil became closed, the operation proved a failure. This accident dis-Valuable assistance can sometimes be rendered couraged the parents and they refused to allow the the bag, the presenting part must be raised and held with it came the hope that even he, blind as he had been from birth, might be made to see the forms Having enumerated and classified the principal which up to this time he had only known by feeling. He sought the advice of a clerical friend, now the the cataract be removed.

I found the eye previously operated upon lost, with no light perception remaining. The pupil was 2. What proportion of cases require such inter-closed, the anterior chamber effaced, and the eye so disorganized by the former inflammation that there was nothing left of it but its name. The other eye had good light perception, and barring the white pupil seemed well formed and promised some results nerve were in good condition.

He returned to his home one month after the op-

the course of conversation asked me whether I had and the general recognition of all large objects. heard of the sight which my patient had finally secured. He told me that he usually spent a part of his summer vacation in the neighborhood where this est interest in his welfare, made it a point to visit him annually and watch his progress. For the first year after the operation the improvement was not great, so that he could not trust himself alone. The definition of large objects seem to dawn upon him very slowly. It took his retina two years to acquire comparatively small objects, and even the alphabet to make the diagnosis with considerable accuracy. had been conquered, and the reading of very large

from operation. I explained to him that the opera- extraction went, was a success. Before he left me tion was not a difficult, dangerous nor painful one, I could detect no abnormal changes in the fundus of and that his prospects for a successful extraction of the eye with the optical microscope. To what exthe cataract were good, but that the retina may have tent the peculiar functions of the retina had underlost nearly all of its sensitiveness, and that therefore gone development I had no means of determining. he should not expect too much from the operative. As he had no conception whatever of objects beyond procedure. Under chloroform the lens was extract- what the handling of them would give him, I did ed through an upward iridectomy. No complical not expect him to see or appreciate them immediately tions followed upon the operation. By the ninth after the operation. If the acquisition of sight could day the wound had healed and the bandages were be attained I knew that it would be of very slow de-permanently removed. When examined the pupil velopment. Professional experience had taught us was comparatively clear and the eye exhibited very but little in this direction, and surgical reports were little injection. There were a few opaque shreds of not rich enough in such material to give data upon capsule in the pupil, but not enough to interfere with which to build hope. The results of three years' dethe functions of the eye, if the retina and optic velopment has put him further on the road to secure good vision than I had imagined possible.

I had previously operated upon a patient 22 years eration, sadly disappointed that he could not see, of age who had been brought up in a blind asylum. When asked what difference there was between his He could see to get about, but the presence of a present condition and his former state one month zonal cataract in each eye from infancy did not perago, he said that light appeared to him very much mit him to see small objects. When the cataracts intensified, and that he could now detect the shadow were removed after he had attained his majority his of any body between him and the light, but that he vision was so far improved that he then learned to or any body between inhand the light, of the large could not recognize outlines of any object whatever to read, and eventually became a successful mersad at heart he went back to his old trade, at which chant. It took him nearly two years to acquire a he had become quite skilled, and I heard of him six facility to see coarse print, and he never exceeded months afterward as being lead about, in the absence pica, which is the largest type that printers use for of useful sight to guide himself. I had put his case the body of many books. No magnifying glass perdown as one from which no good was now to be ex- mitted him to recognize fine print. There was a pected, and therefore dismissed him from my mind, great difference, however, in the amount of sight Early in January, 1886, three and a half years after which these two patients started with. One had the operation, I was visited by the Bishop, who in only light perception, the other already useful vision

Baltimore, February 2, 1886.

## patient resided, and as he had always taken the deep- INFLAMMATION OF THE LINING MEMBRANE OF THE FALLOPIAN TUBE. WITH EXUDATION OF PUS OR PUROFIBRINOUS FLUIDS.

BY R. STANSBURY SUTTON, M.D., LL.D., OF PITTSBURGH, PA.

This disease is termed salpingitis, and like a bronsufficient sensitiveness to detect large objects and to chitis, it may be acute or chronic. The acute form permit him to avoid them in moving about. After is not distinguishable from an ordinary peri-uterine two years he could walk alone, and now rides horse-inflammation. The chronic form may be recognized. back all over the country. On the last visit the In some cases the diagnosis is limited to certain peri-Bishop was delighted to note a marked improvement. ods in the history of the case; in other cases the His vision had become sufficiently acute to detect symptoms may be so constant as to render it possible

The causes of this disease have frequently been said type had been acquired. He had secured the aid to be limited to gonorrheal infection. This is an error. of interested friends who were instructing him in It does arise in strumous women from the constant inreading. A book of large print, letters one-fourth troduction into the uterus of instruments, whether by of an inch long, had been procured. In this, aided reason of the introduction of septic matter, or from by a two-inch magnifying lens, he could read with mechanical violence, I am not sure. But it is more than some facility. It has taken him nearly four years to probable that it arises from the introduction of septic attain this degree of useful sight. This progress matter. The entire gynecological practice of some marks clearly the slow development of retinal sensi- seems to be limited to a single procedure, viz.: the bility, and from it we may expect that time will still introduction of the uterine sound; and the rationale of the treatment is explained to the patient thus: I have not seen the patient since he left me for "There are adhesions between your womb and bladhis home, 300 miles away from Baltimore, now nearly der, or womb and rectum, and these must be broken four years. The operation, as far as the cataract up." Or: "You have got a tumor in your womb,

and fixation in retroversion of the uterus in another; approaching hysteria are present. The patients lack chronic invalidism in a third; and the fourth case was color, and bear the evidence in their faces of sufferabsolutely free from all disease, but had been gouged ing. One patient often complained of being "so regularly for a supposed fibroid which never existed, stiff as to be scarcely able to walk." In all of my The constant poking at the interior of a uterus with own cases I have observed that the menstrual flow sounds will frequently produce an inflammatory con- was disturbed, being profuse and lasting beyond the dition of the lining membrane of the uterus and tubes time, and finishing up with a leucorrheeal discharge as well as a general pelvic cellulitis. The older 1 sufficient to annoy the patients. In one of them the convinced that local treatment directed to the interior. There was no mistake about this, for I finally removed of the uterus instead of to the surrounding structures the tube when it was full of pus. The case was a is entirely too, much practised. I find scarcely any very interesting one. Twice I postponed operating use of late years for the old Simpson's sound, sponge on account of a subsidence of the mass in the pelvis, or laminaria tents; they lie about as relies of the past. The patient insisted that she had for several days ob-Symptoms are no longer treated for diseases, and the served a flow of matter from the vagina. Finally I uterine cavity is no longer made a chemical labora- was called to see her when she was confined to bed tory. The condition of the pelvie and abdominal vis- with a severe menorrhagia, and I felt the mass uncera receives more attention, and less local treatment usually large, tense and painful. As soon as I got is required. Tonics, massage, rest, hot water, regula- her cleared up she entered my private hospital and I tion of the bowels, a good diet, and an occasional operated upon her. application of iodine to the vault of the vagina will soon do away with a host of cases formerly treated in right groin and back; stiffness of thighs; is with text-book punctiliousness. The cases requiring pale, tongue is heavily furred, is slightly hysterical, surgical treatment receive it promptly and with the loss only of enough time to prepare the case. I elastic, painful swelling exists in the pelvis to the am sure that such a course is productive of less harm right of the uterus. It has come and disappeared, and of more good than the other.

principles laid down by all authors.

1882, at his clinic in Birmingham, England, "Please examine that woman." I did so. He said, "What is that?" I replied "a case of chronic cellulitis." "No," said he, "it is a case of salpingitis, pus in the on the fourth day, and remained so; wound healed, tubes." I now for the first time knew that I had seen as all my abdominal wounds do, by first intention. the disease before and had not recognized it. I have prostitute, it is easier to recognize it than when the and boiled water was used for sponges. patient is unmarried and above all suspicion-because sexual intercourse in chronic salpingitis is well-night unendurable. Occasionally the muco-pus or pus and serum will escape from the tubes through the uterus and relief follows; if the tube fills again the suffering returns. I have seen this occur. Bimanual palpation will reveal a fulness on one or both sides of the pel have formed the mass is fixed.

and it will be removed by making pressure on it in occur, lasting eight or ten days. During these the patient cannot walk about without much suffering, I have just now under my care four striking exam- and there is an acceleration of pulse and temperaples of this treatment persisted in to the production ture. Pressure bimanually produces a feeling of of salpingitis, unilateral, in one; chronic cellulitis faintness, and occasionally reflex nervous phenomena grow, and the more experience I get, the more am I tube was now and then emptied through the uterus-

Miss - has a strumous constitution; pain has menorrhagia. On local examination, a semito my personal knowledge, several times in the last An acute salpingitis recognized as a peri-uterine six months. In a good light, under Sims's speculum, inflammation should be treated on the well established a little pus is found oozing from the external os uteri. On January 9 she was put on the operating table, The existence of chronic salpingitis is not always etherized by my head nurse, and, Dr. Stone assisting easy of recognition. Mr. Lawson Tait said to me in me, I opened her abdomen by a two and a half inch incision, and removed her right ovary and Fallopian tube; the latter full of pus. Her temperature never exceeded 99.5° F. after operation, was normal

It may be interesting to some to know that no seen many cases since, some operated upon by Mr. earbolic acid or other chemical touched this patient Tait, and I do not yet feel competent to always re- until the wound was closed, when iodoform gauze eognize the condition. When the symptoms are well was placed over it. The sutures were boiled in clear marked, and the patient is a married woman or a water, boiling water was poured over the instruments.

## MEDICAL PROGRESS.

EXPLORATION OF THE UTERINE CAVITY IN CASES vis. This fulness or swelling is not solid and painless, OF MENORRHAGIA. —At the meeting of the British but semi-elastic and painful. The swelling may be Gynacological Society on December 9, Dr. ARTHUR well off on the sides or be directly behind the uterus W. Edis read a paper on this subject. The author itself. Other structures than the distended tubes are desired to draw attention to the urgent necessity of likely to be involved in the swelling, and if adhesions this proceeding, when dealing with cases of severe persistent or recurrent uterine harmorrhage. The Pain, reflex in character, is usually complained of subject was one of great interest, and often one of in one or both groins, in the back, in the bladder or great anxiety to the practitioner. There was a tendown the legs. Frequent attacks of pelvic peritonitis

of many and various conditions. A correct diagnosis practical, but he took exception to one or two points, was the first and most important element of successful treatment, which otherwise was mere guess-work. Succeed when the uterus was rigid; and after all it Speaking generally, there was almost invariably some was not a rapid, but a long and tedious process relocal cause when the homorrhage was really severe, quiring an anosthetic. He preferred the sea-tangle-Cardiac, hepatic, or renal disease might be present tents used with proper precautions, and always colas a complication, or independently, and should lected and prepared his own. In regard to those cases always be taken into consideration. Uterine hæm- of metrorrhagia in which nothing could be found after orrhage might be aggravated by the injudicious use exploration, it should be remembered that an ulcerof alcoholic stimulants; more especially was this the ated or excoriated condition of the mucous membrane case about the time of the menopause. The author need not be restricted to the os or external portion had repeatedly witnessed cases where the mere ab- of the cervix, but might extend up the uterine cavity. stention from alcohol had been sufficient to arrest a It was quite in keeping to suppose that a congested profuse hemorrhage, which had been going on for months, and threatened even the patient's life. In attempting to form a rational diagnosis, it was of causing them to bleed and enlarge. The last objective profuse that a congested with the same effect on the uterine mucous membrane as was the case in piles, attempting to form a rational diagnosis, it was of great importance to get a careful and exact history of tion he could take was to the incision of the cervix, the details of the case. Before proceeding to local The danger to the patient from septic poisoning was investigation, the heart, lungs, liver, and other organs, greatly increased by such a measure. should be carefully examined, and inquiry made into DR. Barnes thought no law in therapeutics more the habits of the patient. A careful pelvic explora-clear than that which dictated direct examination of tion should follow. Then, if after consideration of an organ at fault if it could be effected. The endeavor all the facts of the case, the presumption were, every- to do so was made, in the case of other organs, by thing else being excluded, that there was some intra- percussion and auscultation. The uterus offered the uterine complication, the practitioner was not justified incontestable advantage of being directly accessible. in allowing the patient to go on bleeding indefinitely. A narrow condition of the os externum was a frequent without giving her the benefit of further assistance, factor in cases of hæmorrhage. Great benefit was The author, in general, effected dilatation by dividing often derived from simply enlarging this opening by the cervix with the metrotome or scissors, either a strictly limited incision. The immediate effect was alone, or in conjunction with the employment of tents to relieve local engorgement. It also afforded a ready or other dilators. It was advisable, after operation, escape for imprisoned blood-clots and mucus, and to irrigate with some appropriate antiseptic lotion, gave free access for exploration and the application morning and evening, for a few days. In cases of of topical remedies. It was also useful in many cases persistent hiemorrhage, due to retention of the pla- of intra-uterine polypus and fibro-myoma of the body centa, following a miscarriage, the cervix generally of the uterus.—Dr. Thomas Savage found Hegar's remained sufficiently patulous, or was so readily dil- dilators to be very unsatisfactory. Laminaria tents atable, that no difficulty was experienced. Where, were much more efficient, but were sometimes followed however, only a small portion of the placenta had by disastrous consequences. In several cases in been retained, and the case allowed to go on for sev- which he had suspected a portion of the ovum to be eral successive weeks or even months, the cervix left behind, he had thoroughly swabbed out the uterine might be found so contracted, as to necessitate the cavity with pure carbolic acid, and found that such a introduction of laminaria tents over night. In such course would often prove sufficient for cure.—Dr. cases, incision should never be resorted to, this BANTOCK was compelled to dissent from Dr. Edis on method being reserved exclusively for cases of small one or two minor matters. He did not approve of fibroid or fibroid polypi in the interior of the uterus. incising the internal os after partial dilatation, for the The author related several interesting cases to ex- purpose of removing a small fibroid tumor, because emplify his meaning, and to show that, until the cavity it would be impossible to control the subsequent exof the uterus had been explored, a correct opinion tension of the laceration of the divided tissues concould not be formed as to what method of treatment sequent on the forcible extraction of such a hard body should be adopted. He would lay stress upon the as a fibroid tumor. He had met with cases exactly importance of dilating the cervix and exploring the corresponding by those narrated by Dr. Edis, and it interior of the uterus in all cases where himorrhage was quite easy for him to support his views. 11c from the organ persisted unnaturally, and where the thought it was a mistake to mix glycerine with iodine ordinary medicinal agents failed in affording relief, or carbolic acid when the full effects of either remedy and there was no evidence of any condition external were desired, for in both instances the caustic effect to the uterus sufficient to explain the persistence of was in this way reduced to a minimum, if not wholly hemorrhage. - Dr Aveling had observed that in cases removed. Especially was this the case with carbolic requiring dilatation where something existed in the acid. He was not prepared to assent to the doctrine uterus capable of being removed, the cervical canal that a cervix which was the subject of even extensive been noticed by Harvey. In these cases, he preferred of chronic catarrh, etc., should not be subjected to contracted, a more gradual method was better. - DR. tained the most satisfactory results from dilatation

disease, in place of regarding it merely as a symptom ROUTH believed that Dr. Edis's paper was eminently

was either dilated or dilatable; this peculiarity had disease of a non-malignant character, but the result to use his own dilators. Where the os was rigid and dilatation. These were just the cases in which he oband the subsequent daily introduction of a stripe of sharp crampy pains, radiating to the thigh along the 16, 1886.

PALPATION OF THE PELVIC ORGANS.—DR. B. S. SCHULTZE, of Jena, has recently published (Centralbl. für Gvnäk., Oct. 24), an original communication on ovarian vessels and nerves as they cross over the felt through the contracting muscle, which becomes back of the pelvis.

active contraction, is often mistaken for the former, eral part of the vagina; and, by passing the finger forwards towards the anterior bony origin of the muscle, behind the body of the os pubis, the obturator comes particularly evident during extension and ad- don Medical Record, January 15, 1886.

lint saturated with glycerine for ten to fourteen days. course of the nerve. [This, if misunderstood, may -MR. Lawson Tait considered the use of sponge- be taken to be symptomatic of some acute inflamtents to be, of all the methods of dilatation, the matory process in the pelvic cavity. A thorough exmost dangerous, and had long since given them up. ploration of the vagina with the finger, in a case of Hegar's dilators he considered extremely risky, and suspected uterine disease, is very likely to involve their employment was as exhausting for the operator pressure on the nerve, and this may become a source as for the patient.—British Medical Journal, Jan. of fallacy. Pressure on the ovarian plexus must also cause pain even in health, and thus the tenderness is not necessarily a proof (vide supra) of chronic oophoritis. - Rep].

The pyriformis is difficult to detect by vaginal palpation in subjects where the vagina is long, and the bimanual palpation of the pelvic viscera. He had pelvis deep. It can easily be touched when the pelvis already noted ("Ueber Palpation der Becken," Jen. is shallow and the vagina broad, or in women of Zeitschr. für Med. und Naturw., 1870, v., p. 113) diminutive proportions. When the uterus is high up, that the contracting and relaxing psoas muscle, along as in advanced pregnancy, the finger can easily reach the brim of the pelvis, was an excellent guide to the the upper border of the muscle. The pyriformis is, fingers engaged in detecting the position of the ovary according to the evidence of palpation, very irreguin the bimanual method. External pressure along larly developed in different patients, and it is not so the same part of this muscle will often, in cases of evidently set in action as the obturator, during active chronic oöphoritis, or complicated parametritis, cause rotation outwards of the lower extremity. On the severe pain, especially when the hand passes over the other hand, in many cases it remains in continual contraction, especially when the patient lies in an pelvic brim. [See reporter's note below, with regard uncomfortable position, or is in a state of alarm. to pressure on the obturator nerve.] When the psoas Pressure on the contracting pyriformis is often inis kept in a state of clonic spasm, through apprehentensely painful possibly, ("vielleicht," cridently, might sion of pain or through faulty position of the lower be said with full confidence. - Rep.) through transmisextremities, it may readily be taken for a swelling, sion of the pressure to the sacral plexus. Through the result of pelvic inflammation. As long as the these peculiarities the pyriformis may become a promipsoas remains relaxed it cannot readily be distin nent source of fallacy. Dr. Schultze, a few years guished by the hand placed upon the iliac fossa, but ago, examined a very corpulent patient suffering from the pelvic brim can be felt through it. When, how- chronic metritis and parametritis. He took the two ever, the patient bends her thigh, the brim cannot be contracted pyriformes for the ovaries fixed to the

When both the pyriformes and the obturatores in-Dr. Schultze finds that two muscles are to be determinate set in action, the bulging of the obturators tected on careful vaginal palpation, and to be taken is most prominent a little behind the middle point of into account as valuable guides to other structures, the foramen ovale. As each obturator bulges but These are the obturator internus and the pyriformis. Little, there is not much chance of its being taken for [The sphineter vaginae and levator ani are easy to a tumor or a collection of inflammatory deposit. The detect. The anterior part of the latter, when in most projecting part of the pyriformis in full contracwhich lies below it, separated sometimes by a distinct, out three quarters of an inch or more from the angroove. The tendinous arch, whence part of the terior surface of the sacrum. The inner borders of apart, so that two fingers can be pushed between fibres can be detected as they arise from the sacrum between the sacral nerves, provided that the muscle be Vaginismus is very frequently, we find, caused by tion. If the patient, lying in an easy attitude, have painful contraction of the levatores and in cases of rotated the lower extremity outwards without setting fissure of the anis or inflamed harmorrhoids.—Rep.] the pyriformes in action, she should be told to hold The obturator internus, Dr. Schultze states, is a must the thigh stift. This will set all the femoral muscles cle generally well developed, and its movements can in action, and the pyriformes may then be distinctly be felt through the vaginal walls if the patient rotate felt. This will be sufficient to distinguish the muscles the corresponding leg outwards. Its contraction be- in question from a morbid growth or deposit. Lon-

NUTRIENT SUPPOSITORIES.—A case was related by portion lying further back towards the sciatic notch. Mr. Godfer, for himself and Dr. Barlow, at the last Pressure on the contracting muscle seldom causes meeting of the Clinical Society, in which the advantpain, but pressure on the obturator nerve produces age to be derived from nutrient suppositories was well

relieved by enemata of three-quarters of a pint of wounded bone or not; but in the latter case a longer water, which were in all cases absorbed. With regard time is required for union. 9. For successful insertorectal alimentation, it is often observed that after two or three days the rectum becomes intolerant of nutrient ble result is obtained even when the smallest pieces enemata. To avoid this, food was given in form of are inserted. 11. In the case of insertion of small direction are inserted. third of its weight of the peptonized meat-extract, maintain contact between the medulla and the piece and rolled into cones weighing 100 grains. The of bone transplanted. - London Medical Record, second was made by peptonizing milk with pancreatic January 15, 1886. and dividing as in the first case. Peptonized milk being now sold in a concentrated form, it may be A. BLOMFIELD says that the usual method for the used instead of ordinary milk, which saves much time quantitative determination of albumen in the urine and trouble. The suppositories were certainly ab- in the course of clinical work must be regardsorbed, and kept the patient going for several days. ed as unsatisfactory. It consists generally in boil-One was introduced about every three hours. His ing a test-tube about half filled with the urine, tongue became very dry, after a time he was given allowing the coagulated albumen to subside, and then some pieces of underdone chop, which he was al- getting by sight a rough estimate of the proportion lowed to chew and to swallow the juice derived there- of the albumen to the amount of urine employed. from, but not the fibre. Besides maintaining his There is a method used in many of the French hos-nutrition fairly, the patient, who was rather an irrita-pitals which yields results possessed of numeric acble, querulous subject, was satisfied and comfortable, curacy, and which serves to give a good idea of the and the advantage in keeping his abdomen quite actual amount of albumen in the urine. The method quiescent was very great indeed." If other cases was devised by Dr. Esbach, and consists in the preshould confirm the favorable impression as to the ad-cipitation of the albumen by means of picric acid. vantages to be derived from this method of feeding, After standing twenty-four hours, the precipitated when contrasted with the failure which in a few days albumen reaches a certain height in the tube, and it generally results from the attempt to sustain life by is according to height to which it reaches that the nutrient enemata, as the rectum generally soon be amount of albumen is determined. The tube is emcomes intolerant of them, there will doubtless be pirically graduated in such a way that the number to found a wide use for these suppositories in the very which the precipitate reaches gives directly the large class of cases in which the stomach requires to grammes of albumen per litre of urine. The reagent be kept at rest. Those who employ them may find, for precipitation is made by dissolving to grammes too, that the liquid which the system requires daily of picric acid and 20 grammes of citric acid in 800 may be in some cases administered by the stomach; or 900 c.c. of boiling water, and then adding suffithis would, one might suppose, tend still less to the cient water to make one litre. Urine is poured into disturbance of the lower bowel, and leave it still the test-tube up to a certain mark, the reagent added more at rest to digest and absorb the suppositories up to another mark, and then the tube is inverted alone. British Medical Journal. December 19, about a dozen times to mingle well the contents, and

Siglo Medico, Nov. 22, 1885,) arrives at the following The Lancet, Jan. 23, 1886.

exhibited. The patient, as will be seen from a perusal conclusions: 1. Pieces of bone inserted in the of our report of the meeting, suffered from typhlitis. diaphyses of long bones may become completely Mr. Godlee opened the abscess-cavity, and allowed united to them, and continue to live. 2. They not a large quantity of feetid pus to escape. The patient only continue to live, but also grow. 3. The insereventually quite recovered, without any palpable tion of bone gives results in whatever position the
evidence of the thick bands of inflammatory material
which are so troublesome in many cases treated on
expectant methods, and had since had no sign in any
between the piece inserted and that to which it is apway of any trouble whatsoever about the caecum. plied. 5. Around the piece inserted, a bony, peri-Dr. Barlow, speaking of the diatetic treatment after osteal, and medullary callus is formed. 6. As in a the operation, remarked "that in this case it was fracture, this callus has only a temporary vitality. especially desirable to keep the stomach and intestinal 7. After the lapse of a certain time, the periosteal and tract at absolute rest. For many days, therefore, the medullary callus is reabsorbed, and the engrafted very minimum of food, namely, a little barley-water, bone is only to be recognized by its greater vascularity. was given by the stomach, and the patient was fed 8. The grafting takes place whether the piece inby the rectum. The thirst was found to be entirely serted be completely adapted to the margin of the digestive suppositories. Of these, two very con-pieces of bone, if partial suppuration of the wound venient forms were made. The first was made by occur, some small pieces may yet adhere if the supdiluting a good meat-extract with water, and pepton- puration do not extend to the parts of the bone inizing it with Bullock's pepsin, neutralizing, and then serted which touch the medulla. 12. For the complete concentrating, to a soft paste. Cacao-butter was then success of the insertion, apart from antiseptic mediadded in fine shavings, and intimately mixed with one- cation, moderate pressure must be employed to

ALBUMINOMETRY AND ESBACH'S TUBES .- MR. J. placed in the vertical position for twenty-four hours, when the height to which the subsided precipitate has Transplantation of Bone.—Dr. Ferrari, (El reached gives the grammes of albumen per litre.—

#### THE

## Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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#### "OPERATIVE SURGERY OF THE BRAIN."

makes an octavo volume of eighty pages, and is di-

surgery is taken up under a number of propositions, away the mallet and chisel. We have already said the first of which is that "the complexus of symptoms that the fourth proposition is that the inner table is called 'compression of the brain,' is due not so much usually more extensively shattered and splintered to displacing pressure exerted on the brain substance than the outer table. This has been shown by exas it is to some form or degree of intracranial inflam- perimental fractures produced in the dissecting-room mation." We must agree with the author that too and by observation of cases in private practice; and much has been made of "compression of the brain," it is simply in accordance with a well-known mechanand to a great extent with Hutchinson in saying that ical law. It is easily seen, then, that the great danger "compression of the brain from depressed fragments is from inflammation set up by the depressed fragof bone is an imaginary condition." Dr. Roberts ments of bone, and not from compression. As rethinks that it would be well if traumatic "compression gards the fifth proposition, that "perforation of the of the brain" were always translated "inflammation cranium is to be adopted as an exploratory measure of the brain," and if the profession were taught to almost as often as it is demanded for therapeutic believe that it was due to irritation of the periphery reasons," there must necessarily be much difference of the brain from traumatic causes. The second of opinion; but as in the case of laparotomy for diagproposition is that "The conversion of a closed nosis if the surgeon cannot see his way without per-(simple) fracture of the cranium into an open (com- forating the cranium the surgical reasons seem to be pound) fracture by incision of the scalp is, with the on the side of exploration. The risks of obscure improved methods of treating wounds, attended with knowledge are usually greater than those of divided very little risk of life." It must surely be admitted scalp and perforated bone; and the earlier the exthat so long as the cranial fracture is closed the sur-ploration the less the risks. Comment upon the sixth geon must be to a great extent in the dark as to its proposition, that "Drainage is more essential in

precise character; and it is in this respect that a simple fracture of the cranium differs from every other fracture. "Uncertainty as to the character of a cranial lesion is more dangerous to health and life than the conversion of a closed into an open fracture of the skull, because observation has taught the profession that open cranial fractures do not resemble in fatality similar open fractures of long bones." This argument finds strong support in the fourth proposition, that in the majority of cranial fractures the inner table is more extensively shattered and splintered than the outer. The question, then, resolves itself into one of correct diagnosis. We must learn the character of the lesion, and then we are in a position more probable than improbable even with the com-

tions of the cranium by the trephine or other cutting is, if properly done, attended with but little more Such is the title of a most exhaustive paper read risk to life than amputation of a finger through the by Dr. John B. Roberts, of Philadelphia, before the metacarpal bone." Of the 115 cases of trephining last meeting of the American Surgical Association, collected by Amidon there were only four deaths The paper, which has been printed in book form, which could be attributed to the operation. Dr. vided into three chapters, which deal respectively as any man in America, and it is his opinion that it with the "Principles of Cerebral Surgery," "Cerebral is one of the safest of the capital operations. The Localization," and the "Operative Treatment of risk would be still further diminished, probably, if surgeons were to confine themselves to the conical The consideration of the principles of cerebral trephine or the burr of the dental engine, and throw

wounds of the brain than in wounds of other struc- the fissures sufficiently multiple to approach the chartures," seem scarcely necessary, since, in view of acter of a comminuted fracture. In cases of closed recent papers and cases, the proposition seems almost | comminuted fractures he would trephine with evident self-evident, as does the seventh, that "Many regions depression with or without brain symptoms, and with of the cerebral hemispheres of man may be incised brain symptoms without evident depression. With with comparative impunity." We are sure also that no evident depression and no brain symptoms he those who have read the reports of the cases of Bull, would incise and probably trephine. (He would tre-Parkes, Hopkins Sands, Brinton and Nancrede will phine unless the comminution was inconsiderable). agree that "Accidental or operative injuries to the With open fissured fractures he would trephine with cerebral membranes, meningeal arteries or venous brain symptoms with or without evident depression; sinuses, should be treated as are similar lesions of with neither evident depression nor brain symptoms no similar structures in other localities." And as regards operation should be performed; while with evident dethe ninth and last proposition, that "The results of pression and no brain symptoms he would possibly trecerebral localization are more necessary to the conscientious surgeon than to the neurologist," very little sion was marked, or the fissures sufficiently multiple consideration will show that it is true, and that as a to approach the character of a comminuted fracture). rule surgeons do not pay sufficient attention to the In cases of open comminuted fractures he would tresubject. When the neurologist is wanted to give an phine except when there is neither evident depression opinion in the matter the necessity is not so pressing nor brain symptoms, when the operation would be that one or two days will make much difference; but performed unless the comminution was inconsiderwith the surgeon the opinion must be formed im- able. Punctured and gunshot fractures always demediately. An operation is or is not necessary, and mand operation. It should be remembered that if necessary it should be done at once. And for when operations for fractures of the skull are dethose who desire to make a study of this subject, we manded they should be performed immediately or do not know where a better account of it can be within a few hours. The risk to life is enormously found than in the second chapter of the valuable increased by waiting to see if the patient may not

of "indications in traumatic cases," of "contra-in-cipient inflammation of the brain (meninges?) dications," of "points for opening the cranium when" When is perforation of the skull, in order to remove

get along very well without an operation. But Passing over the second chapter, which deals ex- whether the operation be performed or not all cases, clusively with cerebral localization and contains tables' says. Dr. Roberts, should be treated as cases of in-

localizations," we may now consider the third chap- operation says our author, is contra-indicated in cases ter— "Operative Treatment of Cerebral Lesions"— of intracranial bleeding that do not present the sympin which the principles laid down in the first chapter toms which are believed to be produced by accumuare applied to the treatment of (a) cranial fractures; ulation of blood in either the cavity of the arachnoid (b) intracranial hemorrhage; (c) intracranial sup- or the space between the skull and the dura mater. puration; (d) epilepsy and (e) insanity following If localized hæmorrhage within the arachnoid be cranial injury; and (f) cerebral tumor. In discussing reasonably ascertained, he considers trephining justifithe treatment of cranial fractures Dr. Roberts asks able. When the disc of bone has been removed the four questions: 1. What conditions demand incision | bluish and non-pulsatile dura will probably bulge into of the scalp? 2. What conditions render incision the opening, and should be incised to allow the blood of the scalp unjustifiable? 3. What conditions de- to escape. In some cases, however, this bulging will mend perforation of the skull? 4. What conditions not occur until many hours after the injury. Gradrender perforation unjustifiable? These questions are ually increasing brain symptoms, after injury to the answered in a tabulated statement. In cases of head, "especially if there has been a period of reclosed fissured fractures he would not operate if there turn to consciousness after shock of traumatism, sugbe no evident depression and no brain symptoms; gest the occurrence of intracranial bleeding from but he would incise the scalp and trephine with brain meningeal vessels," even should no fracture or desymptoms with or without evident depression. With pression of bone be detected. Operation is especially evident depression and no brain symptoms he would indicated if the localizing symptoms point to no other incise the scalp and possibly trephine. He would be region of the cortex and if the symptoms are such as inclined to trephine if the depression was marked, or render cerebrallaceration improbable. "A very short interval of immunity (from head symptoms after traumatism) indicates rapidly flowing hæmorrhage branches, or ligation or compression of a sinus. It subcranial clot rather than the depressed cone. Reliberation of blood-clot and control of hæmorrhage than for deformity in the bony outline."

case of laceration of the middle meningeal artery before the Clinical Society of London, on October 9. The patient fell on his head, and soon became completely insensible. Mr. Symonds trephined on account of hemiplegia and deepening coma. A pulof bone was removed. Two lacerations of the vesrunning the vessel with fine gut, and the other by dividing the vessel and twisting both ends. Hæmorrhage still continued, and was arrested after the bone had been incised to the base, by under-running the artery with a piece of dura mater, making traction on the ligature carried out of the wound, and by carrying a pair of torsion forceps down as far as possible and giving half a twist. The patient died fifty hours after the accident, but death could not

Of the treatment of intracranial suppuration we can only say that if the surgeon can locate the seat of suppuration he should operate and evacuate the pus; if he cannot locate it he should hunt for it, taking care that the aspirating needle be not thrust too deeply towards the medulla and base of the brain. The case reported by Nancrede to the American Surgical Association, in 1884, shows that it is never to late to seek for pus. Of Dr. Robert's remarks We set out with the intention of calling attention to able and masterly monograph, and have exceeded our limits. He is to be congratulated that he has been able to compress so much information, and so much good surgical reasoning into so small a bookfor it is one to be studied, and studied hard by everyone who may possibly have to deal with an injury of the skull or brain; and we must regard the operation as both justifiable and demanded.

#### HYPODERMATIC MEDICATION

It is thirty years since Dr. Alexander Wood, of and demands early operation, with probable ligation Edinburgh, introduced to the medical profession the of the middle meningeal artery or one of its large subcutaneous method of administering remedies. The entire following of Æsculapius may be said to be must be remembered also that compression symp- armed with hypodermic syringes. Yet it is doubttoms, coming on immediately or quite soon after ful if the average practitioner, as a rule, uses this indepressed cranial fracture, are very often due to the strument for the administration of anything except morphine. Again, it is probably safe to assume that moval or elevation of bone is often needed more for too great recklessness is often shown in the use of this mode of giving this remedy. It is not always easy to substantiate the suspicion that a patient has Mr. Charters Symonds reported a very interesting succumbed to an overdose of morphine thrown under the skin, whereas it is a very easy thing to entertain and even express such a suspicion. This is shown by the frequency with which the laity whispers the account of some case in which Dr. - gave Mrs. — a dose of morphine hypodermatically, when sating clot was removed, and hæmorrhage was pro- she went into a heavy sleep and never awoke. fuse. In order to reach the laceration a great deal Doubtless many of such instances are examples of post hoc, propter hoc. Yet it is only too true that sel were found, one of which was closed by over-some of the patients thus treated have been sacrificed. However exceptional death from the subcutaneous administration of morphine may be, the mere fact that such an untoward result is possible should lead physicians to err, if err they must, on the side of

The subject of "Hypodermic or Subcutaneous Medication" was discussed at the fifty-third annual meeting of the British Medical Association, at Cardiff, last year. As the two questions, concerning the range of its employment and the extremes of the doses regarded as safe, were considered, it may be well to give the readers of THE JOURNAL a summary of the ideas there presented. The discussion was opened by Dr. Talfourd Jones in the Section of Pharmacology and Therapeutics. He would not limit but would recommend all practitioners to carry appropriate solutions of atropine, apomorphine, and a combined solution of morphia and atropine in the proportion of twenty to one. There can be no doubt that given subcutaneously, morphine acts more promptly, certainly, and with fewer disagreeable aftereffects than by the stomach. Moreover, its effect is not merely a general one, but in addition it exerts a local anodyne power, which is marked and often of great service.

In this respect Talfourd Jones is a disciple of Alexander Wood, not of Hunter. He believes that in curing neuralgiæ, such as sciatica, brachialgia, trigeminal neuralgia, etc., it is far more efficacious to inject the narcotic at or near the seat of pain than at some remote part. He cites cases in support of portion of 1 to 20. Indeed, he rarely employs this position of which space forbids the repetition morphine alone, except in certain cases in which it is here. He is of the opinion that there should be a desirable to lessen the vigor of the respiration. In definite and uniform dosage established for this pow-painful thoracic diseases, as pleurisy, it is well to leave erful agent. Lawson thought the initial dose should out the atropine, since its stimulation of the respirabe 16 of a grain, but Jones has seen very alarming tory act would be likely to aggravate the suffering. effects follow that amount. There are many conditions that must govern the size of the dose in each on account of its certainly modifying the unpleasant individual case, such as the bodily weight, the age, after-effects of morphine. Before leaving the subject idiosyncrasy, and the intensity of the pain or gravity of these agents he would emphatically recommend ' of the condition which calls for the hypodermatic use the hypodermatic use of moderate doses of this of the remedy. He would suggest that for an adult "atropho-morphine," as he dubbed their combined female the initial dose of morphine by this method solution, in attacks of cardiac asthma. These atshould be  $\frac{1}{10}$  gr., while for a grown male  $\frac{1}{6}$  might be tacks, which are paroxysmal and occur chiefly at employed. He would never give morphine subcu-night, are most quickly and beautifully relieved by taneously to children, if possible to avoid it, while to this means. The effect is to stimulate and not de-

tion of the acetate of definite known strength. For an addition to a practitioner's therapeutic knowledge sixteen years he has used a solution always made in that we are glad to have Talfourd Jones give it his the same way and of the same strength. The salt endorsement. used should be fresh. "Procure a stoppered bottle" Lastly, he would urge the hypodermatic use of that holds exactly one fluid ounce. Half fill this with apomorphine. It is a prompt and safe emetic, spewater, which I never use distilled, then put into the cially serviceable in cases of poisoning and alcoholic bottle 40 grains of acetate of morphine and drop into intoxication. A convenient solution of the hydroit exactly 4 minims of acetic acid. Shake and the chlorate can be made of the strength of one per salt will instantly dissolve. Then fill the bottle with cent., and of this the dose for an adult should be water. The resulting solution will be pale and clear. from 4 to 10 minims; that is, from the twenty-fifth to Such a solution, if properly kept, will not in six the tenth of a grain. The  $\frac{1}{2\pi}$  will produce emesis in months throw down more than a fraction of a grain from three to five minutes. For children 1 to 272 of the acetate. It will perhaps become darker in minims should be employed. Still, he thinks it precolor, but this is immaterial." It should be kept away ferable to administer it to young children by the from the light. It is much stronger than the solutions stomach. It should be remembered, however, that commonly employed in this country, 12 minims repre- apomorphine acts very slowly when given in this way, senting I grain of the drug. Great care has to be since its action must depend upon its being absorbed. taken in the measurement of so strong a solution, As regards the needles employed, Jones is of the and unless syringes are used the pistons of which are opinion that they are best made of steel, since they provided with a nut, there would seem to be a greater penetrate more easily and with less pain than those likelihood of accidents. Moreover, the acetate is made of silver. Except when intended to reach said to contain to per cent, more morphine than does deep tissues, their length should be from three-fourths

its employment hypodermatically often because of practical points touched upon it is not best to menits unrivaled power over muscular spasm, as in hepa-tion here, as they are such as would naturally suggest anodyne and antispasmodic, as an anhydrotic, as . In conclusion it may be said that there are several of the strength of 2 grains to the ounce of water, to have at hand. German therapeutists are very fond ing considered and recommended these remedies matically for the treatment of syphilis. This method separately, he yet desired to endorse most emphat was introduced by Lewin, and is very efficacious

one under the age of 5 years it is never admissible. press the already weakened and overburdened heart. Jones employs and earnestly recommends a solu- This is no new idea, yet it is so certain and valuable

of an inch to one inch. Such needles are easily The reader next considered atropia. He advised cleaned and not likely to bend or break. Other

a respiratory and cardiae stimulant and as an an-other remedies, such as pilocarpine, which are usetidote to opium narcosis. He advised a solution fully given subcutaneously, and which it is advisable and of this the dose is from 1 to 6 minims. Hav- of administering the bichloride of mercury hypoderically their combined administration in the pro- when it is desirable to bring the system rapidly under

the 18 of a grain. It is combined with  $\frac{1}{30}$  grain of injections of carbolic acid during the last six or eight ought to receive greater attention on the part of the paragraphs from his paper:

heat the solution for subcutaneous injection. The upon the posterior cervical region, which measured amount to be injected may be put into a teaspoon, five by six inches and was very irritable. I selected and a lighted match held under it until it boils. By two or three of the most prominent sinuses and inthe time the fluid is taken into the syringe and the jected into each of them about 10 minims of pure to inject. We are confident that many cases of ab- the injection it was noticed that the inflamed areola seess and sore arm would be avoided by taking this had nearly disappeared, and the sore itself was castpreparations are used. And when the solution is acid were then injected, after which the ill-condi-

## TREATMENT OF CARBUNCLE WITHOUT

At the annual meeting of the American Medical Association, in May, 1885, Dr. L. D. Bulkley, of New in the treatment of carbuncles of all grades of severity, without incisions or other surgical procedures. His method consists essentially in the daily dressing antiseptic unguents spread on thick soft felt cloth, coincided with Dr. Bulkley.

incisions through the diseased structures, by severing simple ulcer. Furthermore, carbolic acid acts as a blood-vessels, added to the danger of septic poison, local anaesthetic in these cases, and did it do no ing, and thereby doing in some cases positive harm. other good than this in these most painful affections Since the publication of Dr. Bulkley's paper in The we would be amply justified in its employment for JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION this purpose alone." for May 16, 1885, an article has appeared in Daniel's Texas Medical Journal, of November, 1885, by DR. fair trial, with proper caution, lest too much of the C. H. Wilkinson, of Galveston, giving the results carbolic acid might enter the circulation.

the influence of the drug. The dose is from 16 to of his experience in the treatment of carbuncles with morphine, and a small amount of sodium chloride, years. He fully sustains Dr. Bulkley in the opinion dissolved in 15 minims of water and injected be- that surgical interferences with carbuncles are worse neath the skin of the back. This mode of treatment than useless. We cannot give a better idea of the has the endorsement of high authority. Hypoder- plan of treatment which Dr. Wilkinson claims to be matic medication possesses many advantages and original with himself, than by copying the following

"An Italian laborer, æt. 51, applied to me for It is somewhat remarkable that so few physicians treatment of a well developed carbuncle situated needle screwed on it will usually be sufficiently cooled carbolic acid, full strength. On the second day after little trouble, especially when the more irritating ing off several large sloughs. A few more drops of made on the spot boiling the water ensures solubility, tioned, painful and highly inflamed carbuncle was and often precludes the necessity of the addition of converted into a simple, healthy, granulating ulcer, an acid as a solvent. It is often the case that nervous which healed to complete recovery within a few weeks patients will contract the muscles of the arm into after. Since the treatment of this patient I have which the injection is to be made, and the injection fallen heir to many similar cases; the carbuncle in is thus often made into a muscle. This may cause the great majority of instances being situated on the an abscess. Lastly, injections should be made, if nucha; and in every instance did a speedy return possible, in a region comparatively free from super- to health follow the carbolic acid treatment, as ficial blood-vessels, and where there is a large amount carried out in the case of the Italian. My method of employing the agent has been, as just stated, to select a few prominent sinuses and inject into them from five to ten drops of pure liquid carbolic acid, using an ordinary hypodermic, or, better still, a Heaton's hernia syringe, throwing the fluid in the direction of the hard, red and painful spots about the York, read a paper claiming a good degree of success periphery, and being careful to pick up all excess of acid that might ooze back through neighboring sinuses, with sponge or blotting paper.

"Carbolic acid in this class of cases acts by conof the carbuncle with unirritating and somewhat verting an unhealthy into a healthy inflammation. All erysipelatous tendency is checked instanter, wherever the acid touches, while the stimulus it affords to the capillaries promotes absorbtion on the one hand eral of the more experienced members of the Section and healthy granulation on the other. Great sloughs of necrotic, connective tissue are thrown off, and the It was stated by the writer of the paper that free carbuncle is soon converted into a rapidly-healing

The plan here suggested is certainly worthy of a

#### SOCIETY PROCEEDINGS.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, February 1st, 1886. THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR.

Dr. J. Suydam Knox read a paper entitled QUINSY AS A RHEUMATISM.

The author reported the treatment of fifty cases of the disease. In forty-five cases (95 per cent.) there was a positive rheumatic diathesis. Forty of these cases were cured in thirty-six to seventy-two hours, without suppuration. The treatment was salicylate of sodium, and hot alkaline gargles, or the repeated insufflation on the tonsils of bicarbonate of soda. Five cases, decidedly rheumatic, were not benefited were not benefited, and at the end of forty-eight hours the ordinary treatment of quinsy was followed. Only one of these cases did not suppurate. The doctor concludes that a large majority of quinsies are rheumatic inflammations: 1. From the percentage observed. 2. From the success of anti-rheumatic treatment. 3. From the similarity between the symptoms of quinsy and rheumatism.

Dr. Knox said that wherever possible he used an insufflator and blew bicarbonate of soda directly on the tonsils, using as much as 30 grains, and allowing it to remain on the tonsils as long as possible, to be followed by a gargle of water as hot as could be borne and to be continued until the throat was cleared, which would take from half an hour to two hours. He sometimes used carbolized lime water, with morphia. He said that he could not say as to is usually in the gald, an abscess is formed from glandular inflammation and suppuration takes place

Dr. A. B. Strong reported

A CASE OF INTUBATION OF THE LARYNX FOR ACUTE CATARRHAL LARYNGITIS, WITH RECOVERY.

instant relief without cutting or bloodshed, being free to remove the tracheotomy tube. from danger, and readily assented to by the parents.

DR. F. E. WAXHAM said that from his experience. The care of the patient after operation is slight, as with intubation of the larynx he was thoroughly con-

have to be interfered with, nor does it often clog up. The tubes as now made, those of Dr. O'Dwyer, are not easily coughed up. It is easier to introduce than remove the tube, owing to the fact that if the thread is left in the mouth it causes coughing and difficulty in swallowing. It was observed that during the thirteen hours the child wore the tube with the thread she had more difficulty in swallowing than subsequently when the thread was withdrawn; the thread being drawn across the epiglottis probably interferes with it closing the glottis during deglutition. Besides, the thread requires constant watching lest the child grasp it and withdraw the tube. Still, in case a mass of mucus should lodge against the lower end of the tube and stop respiration, the thread might be the means of saving the child's life by allowing the tube

to be speedily withdrawn.

THE PRESIDENT said it was a matter of surprise to him that so small an opening would allow the exit by similar treatment. Five cases, not rheumatic, of secretions, as in the case just reported. It had been his experience that recovery always follows cases of catarrhal laryngitis. However, in these cases, he thought the introduction of the tube might be of great benefit in relieving difficult breathing or dyspnæa, and in allaying the fears of friends. He was aware that a very small opening gave air sufficient for inspiration for some hours. He once operated on a boy about 5 years old, in whom the trachea by improper manipulation was turned in some way, and the incision made in the side of the trachea. When the external tracheotomy tube was introduced into the wound the child breathed quite well, the suffusion of the face passed away and the lips became red, but still the sound of the breathing was not satisfactory to the ear. He then tried to introduce the the symptoms of suffocation. On removing the external tube at the bottom of the wound the trachea was seen unopened. The child recovered. The President said that while the tube was in this bad position he looked into it through the fenestra, and the bottom of the tenestra was an opening through which the smallest probe could be introduced into the trachea, which enabled the child to inspire air He said the patient was a child, at. 212 years, deli- enough to relieve the urgent symptoms. He thought cate and small for her age. She had been sick that in a case of true diphtheritic laryngitis an openthirty-six hours when it was decided that intubation ing of the size of the tube under discussion could, was imperatively demanded, and it was done. In- in his opinion, not give exit to any such amount of stant relief was obtained. The act of introducing a secretion as is frequently seen during an operation. No. 3 tube had caused such an abundant ejection of He did not think that intubation of the larynx would the mucus, and the breathing was so easy, that the take the place of tracheotomy; it no doubt is of tube was withdrawn, and the child passed the night great benefit in those cases where the patient is likely comfortably. However, at 4 P. M. of the succeeding to die unless some measure be quickly adopted day the tube was re-introduced with the same success, which will give time enough to allow the operation of but about twelve hours after the child eaught hold of tracheotomy. In the case under discussion the tube the thread and withdrew the tube. The No. 2 tube was worn sixty-eight hours continuously. He had was then placed in position and remained there sixty- not seen a case of tracheotomy where the closure of eight hours, when recovery was complete. Dr. the fenestra gave evidence that the trouble with the Strong said intubing the larynx has advantages over larynx or glottis was overcome in less than six days. tracheotomy in being quickly performed, furnishing. This was the shortest time in which he had been able

compared with tracheotomy, as the tube does not vinced of its utility, and its superiority over trache-

otomy. He had eight recoveries out of his first DR. E. FLETCHER INGALS did not take an enthuseventeen cases, a result which he claimed could not siastic view of intubation excepting for young chilbe approached by tracheotomy, especially in Chicago. dren, when he thought it would be found more satis-The ages of the patients varied from 11 months to 5 factory than tracheotomy. In very young children years; he considered these eight cases as being saved tracheotomy does not result well, and he thought from certain death, as in only one case would trache-intubation would be unsatisfactory in older ones until otomy have been permitted by the friends, and he we have larger tubes. He stated the accepted opinhad the corroborative evidence of other physicians ion of surgeons to be that a tube of less than oneas to the impending danger, and the urgent necessity fourth of an inch in diameter can not furnish sufficient of surgical interference. Since his last report he had air for a child to live on. 1)r. Ingals thought that had a number of cases, and had performed the oper- Dr. Waxham had been remarkably successful with ation four times during the last week, one patient intubation, and had demonstrated its utility, for which being only 11 months old, suffering from both laryn- he deserved credit. Dr. Ingals thought that intubageal and pharyngeal diphtheria; the urgent symptoms tion of the larynx is preferable to tracheotomy in were at once relieved. In another case aged 18 children less than three and a half years of age; months, where death was impending, the tube was children much older than this cannot get a sufficient introduced without difficulty and the child relieved, amount of air through the tube now in use. He said, and recovery would without doubt have been the also, that in performing one operation he had had result had not the child died of pneumonia on the trouble with the gag, which was not large enough for second day. In another case, one of malignant diph- the child, a boy of five years, who lifted his teeth theria in a child of 2 years, the patient succumbed from the gag and closed them on the doctor's finger. on the second day after the operation. In another He thought there was no need of the thread remaincase he found the patient cold and livid, pulseless, ing, as there could be little difficulty in removing the and unconscious. After the tube was introduced cold tube. Dr. Ingals thought in cases where it is difficult water was dashed on the child's face, and in about five to get the consent of friends, or where the conditions minutes he looked around and asked for his father; are such that tracheotomy cannot be performed right took some milk and passed into a quiet sleep. This away, intubation would be of value; there are cases child died from pneumonia three hours later. Dr. not membranous in which intubation may be of value. Waxham said that in the eight cases that recovered. The statistics looked pretty bad for tracheotomy, but in every instance false membrane was observed; when he had seen statistics of fifteen or sixteen cases where the tube was introduced the membrane was ejected, half of them were recoveries. His success had not been either in large flakes or broken-down masses. He quite so good, but he attributed this mainly to the recommended that in treatment after intubation noth- fact that he had operated on five children who were ing at all irritating should be given, as when a child almost dead, or at least had stopped breathing before takes fluid of any kind a few drops will trickle into the operation began. He had the good fortune once the trachea and cause violent coughing, and this irri- to save a child who had not breathed for what seemed tation will often lead to pneumonia. In a child rug- to him twenty minutes. One of the strong points in ged and strong, bichromide of mercury may be given favor of intubation is that it may be done early, and to hasten disintegration of false membrane. The it does no harm even if unnecessary. most remarkable case coming under his observation was a child of 4 years upon the verge of suffocation, drawing the line which would more accurately dewhen, upon the tube being introduced, a considerable portion of false membrane was thrown out through tion seemed to him the operation for private practice, the tube and the violent symptoms subsided at once. and continued about the house during the four days age through natural channels, the freedom of intubathat the tube was worn, and finally made an entire tion from grave responsibility, its bloodlessness, the regard to the comparative value of tracheotomy and give as the percentage of recoveries from tracheotomy about one in three, but these statistics are made up we have trained nurses and all modern appliances. from the most favorable reports. If a physician has and there is more hope of success in tracheotomy. one recovery out of three or four cases he is justly a grand future.

Dr. H. T. Byford said there was another way of and statistics so far are comparatively favorable to The thread was removed, and the second day after it as such. But the cooperation of the patient's the operation the child was playing about the room friends, the preparation of the inspired air by passand perfect recovery. Dr. Waxham thought that in simplicity of treatment afterwards, as well as the greater rapidity with which the mucous membrane intubation very much might be said. The text-books around the vocal chords will get well, are conditions which have less bearing in hospital practice, where While he did not think this latter operation favorable proud of it and reports the case; on the other hand, for private practice, such advantages as having the tube under the eye, and within reach of the fingers, no report is made. He had known one physician to of an attendant, the ease of local medication, the have operated fifty times with but two recoveries. possibility of removing shreds of membrane and plugs Dr. Waxham thought that the thread should always of mucus, and of inspecting the parts by removing be removed, as it is a constant cause of irritation, and the tube, and the longer time the tube can be rethat no difficulty need be experienced in removing tained, these are things that do not pertain to intubathe tube with extractors. He thought intubation had tion, and which, in hospital practice, must secure for it some consideration. He said that there was one

pelling it with sudden explosive force; he can sim- child. ply inspire and expire forcibly and after exhausting

DR. G. C. PAOLI said that malignant diphtheria is sending the patient more quickly to another world. tracheotomy.

DR. J. M. Angear said he wished to call atten- supplant tracheotomy. tion to a physiological and anatomical fact that had of children who suffocate will suffocate when there fifth day he did not find it occluded.

clinical fact that had not been mentioned in this draw back the arytenoid cartilages. When inflamconnection, yet which, more than all other things matory action has interfered with these muscles put together, accounts for the success of intubation drawing back the arytenoid cartilages, some mechanand the failure of tracheotomy as life-saving meas- ical interference like this tube will assist these musures: in the one the patient can cough; in the other cles to keep the chink of the glottis open and let air he can not. After intubation the patient can nor- in. He thought a large number of children who died mally close the glottis, compress the inclosed air in of diphtheria did not choke to death, but died of the lungs, and with sudden explosive force expel ev-erything that is sufficiently loosened. This accounts tube or tracheotomy, or any other process, could for the fact that with such a small tube the patient save them. If there was interference with the openexperiences no difficulty. After tracheotomy the ing of the chink of the glottis he had no doubt the patient has no means of compressing the air and ex- introduction of the tube would save the life of the

Dr. J. S. Knox said that the curses of tracheotomy efforts get rid of a little of the mucus. This despera re the subsequent thoracic complications, either ate condition of affairs has led some surgeons to em- heart-clogs or congestion and inflammation of the ploy the dangerous and barbarous custom of intro-lungs, producing fatal results, and the reason probaducing feathers or other irritants into the tube to bly is that tracheotomy is the final resort in cases of stimulate the mucous membrane, which excites the laryngeal obstruction. He thought that if tracheotpatient and scatters the mucus both upwards and only were performed as early as intubation, there downwards. When somebody invents an appliance would be fifty per cent of recoveries. The great which will enable the patient to really cough through advantage of intubation is that it can be performed the tube, then tracheotomy will be placed upon a early, and the early operation of intubation would rational basis, and will stand some chance of be- no doubt save many a life that tracheotomy would coming a useful operation. The doctor thought not save performed late. He thought that tracheottracheotomy had made a poor showing for its years omy performed as early as intubation would show as good results.

THE PRESIDENT said that he did not intend to say a morbid poison, and that in epidemic cases there anything against the practice of intubation, but he are very few recoveries. He stated that in such cases did not believe that it would take the place of trachexudation does not take place in the larynx or eotomy. Intubation has had but a very short trial, pharynx, and that an operation would only result in and it is not yet time to pronounce it better than The early experience of the President Dr. W. E. Quine said that he had operated twelve in tracheotomy had been almost the same as that of times for tracheotomy and had not had one recovery. Dr. Waxham in intubation. In the first fifteen cases in diphtheritic cases. He knew he was not alone in operated on but half of them recovered, and his an experience of unvarying failure in cases of this later experience was better than that reported by kind; and he knew some surgeons now regard trach- Dr. Waxham, as within the last month he had had eotomy with very little enthusiasm. It seemed to three cases of tracheotomy, all recoveries, while Dr. Dr. Quine unfair to place intubation of the larynx Waxham reports four cases of intubation, all fatal. in contrast with tracheotomy upon the basis of the So far as his own personal experience went, he thought assumption that tracheotomy is always a dernier restracheotomy had the advantage. The President sort, that it is done when the patient is absolutely thought that if he should put a tube in a child's moribund, and that intubation is done under the throat for the relief of laryngitis and the child died most favorable circumstances. This is not the fact, without his having performed tracheotomy, he should Dr. Quine said he was personally cognizant of two consider himself very much to blame. He had no of Dr. Waxham's cases in which the patients were doubt that cases of extreme diphtheritic laryngitis in extremis, and in which death would undoubtedly got well after tracheotomy; he had seen diphtheria have occurred in two or three hours had not relief of the pharynx and of the larynx recover after trachbeen afforded. Surgeons rarely had occasion to eotomy. Although he did not feel enthusiastic about perform tracheotomy under more discouraging cir-lintubation he thought it had a very good place and in many cases might be very useful, but could never

DR. WAXHAM said he had never found the tube not been alluded to, viz: that the arytenoid cartil- occluded when it was removed. In one case when ages are not mature and that the chink of the glottis he introduced the tube a portion of the membrane is held open by positive muscular action in small was crowded down ahead of it, obstructing it entirechildren, whereas in adults and older persons the ly, and the tube was ejected and was then completely arytenoid cartilages are mature and the chink is filled with membrane; the child recovered subsenever closed. Dr. Angear said that a large number quently. On removing the tube on the fourth or

is no membrane present to cause suffocation, but DR. A. B. Strong said, in conclusion, that he had simply some diseased condition that has interfered had some experience with tracheotomy, having had with the action of the delicate little muscles that twelve cases with but one recovery. He had no when taken out.

#### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, January 13, 1886. The President, C. H. A. Kleinschmidt, M.D., IN THE CHAIR.

T. E. McArdle, M.D., Secretary. (Concluded from page 160.) Dr. H. D. FRY read a paper entitled

SOME REMARKS ON THE MANAGEMENT OF PROTRACTED FIRST STAGE OF LABOR.

(See page 171.)

having brought this subject to the attention of the yet Dr. Johnson advocates the use of one and depre-Society. He believed that a great deal of danger cates the employment of the other. from a protracted first stage is due to its deleterious pelvis, rigidity of the os, and so on. Physicians have his hand over the abdomen. been governed too much by the oft repeated axiom DR. FRY said he had mentioned in his paper the interference is demanded by the exigencies of the to pain. case. In reply to a question by Dr. Fry, Dr. Johnmore effective.

doubt that in cases of diphtheria the membrane could DR. A. Y. P. GARNETT was sorry that Dr. Taber come up through the opening. The case read was Johnson had not given us some more enlightened reported as spasmodic croup, and was not supposed views on the points under discussion. He apparently to be one of false membrane, but he believed the in the same breath urges stimulation and relaxation. child would have died without interference, and that He employs faradization to shorten the first stage belief was shared by Dr. Danforth, the attending because it produces uterine contractions, and he physician. Dr. Strong said that he would hardly counsels the use of chloral for the same purpose befeel safe in leaving the tube in the trachea of a child cause of its relaxing effect. Dr. Garnett had no without the thread. He agreed with the President experience with electricity in labor, but he was dethat large pieces of membrane could not readily sirous of knowing whether a current strong enough pass through such a long tube. In the case report to produce uterine contractions might not have a ed the tube was entirely free from membrane or pus harmful effect upon the fectus. These gentlemen adopt means which have for their effects the same results obtained formerly by opium and bleeding. He was not a strong advocate of early interference, but believed in applying forceps when occasion

DR. JOHNSON did not pretend to any special knowledge of electricity. In labor cases this means must be employed delicately and properly. The least injurious way is to apply one pole to the sacral region and the other to the fundus uteri; or the accoucheur may hold one electrode in his hand and pass the other hand gently over the woman's abdomen. It is true the faradic current is used in extrauterine pregnancy for the purpose of killing the fœtus.

Dr. Garnett asked Dr. Johnson the exact physiological action of ergot on the muscular fibres of the Dr. J. Taber Johnson congratulated Dr. Fry in uterus. Ergot contracts and electricity contracts;

Dr. Johnson replied that ergot produced tonic influence on the second stage. The patient enters contractions of the unstriped muscular fibres of the upon this latter stage with diminished strength. The uterus, oftentimes shutting off the natural blood supwhole household, in fact, is demoralized. The mother ply to the child. Electricity can be applied at wifl and child are in danger; the latter from asphyxiation, and need not be used so as to cause continuous conthe former from long-continued pressure. Dr. Fry tractions. Ergot also contracts the short circular had not referred to some of the prominent causes of fibres of the os. In reply to a question by Dr. Fry, the trouble under consideration; such as malpresen- Dr. Johnson said he had used a Kidder's battery with tations, ossification of the fontanelles, failure of the the ordinary hand electrodes. He placed one sponge head to properly mold itself, unusual small size of at the back of the patient and held the other with

concerning meddlesome midwifery. Proper scientific deleterious effect upon the first stage of the failure interference is always permissible when intelligently of the uterus and its contents to descend within the applied. Dr. Johnson had used electricity in labor pelvic canal. The causes of delay which Dr. Johncases, and whil he is not such an enthusiast as son claims that he had overlooked were just such Dr. Baird, yet he had derived benefit from it, that prevented this descent. He thought Dr. Garand had great hopes of its future. The faradic curnett took a narrow-minded view of the subject. In rent seems to steady the contractions, in a word, to one case sedatives may be required and in another render intermittent pains rhythmical. Chloral had stimulants would be proper. The rational method also proved an effective agent in Dr. Johnson's hands. of treating these cases is to find out the influence at He gives fifteen grains every hour until the agonizing work which prevents dilatation of the os, and to emintermittent pains are quieted and the patient is en-ploy that remedy indicated for its relief. Dr. Fry abled to bear down with better results. The warm exhibited the electrodes used by Dr. Baird. He bedouche against the cervix is often beneficial. A large lieved that electricity would prove a powerful and part of the gynecologist's practice is due to unat-valuable aid in overcoming feeble uterine contractended labor cases. It will not do for the accouch- tions. His experience with it held out such a promeur to be a mere midwife; he must know when ise, but he did not find that the current gave relief

DR. J. M. TONER thought there was some misapson said that when he had used electricity he had prehension as to the neglect of physicians in the not found the pains less painful, but stronger and treatment of protracted labor cases and their indifference to the sufferings of parturient women. There may be some difficulty at first in determining which

treating a sensitive and dry vagina.

which produce nervons exhaustion, and yet do not Drugs Act." assist the progress of labor. The moisture obtained from the natural secretions is better than all oint-held in the Grand Hall of St. Bartholomew's Hosments. Dr. Fry spoke of the benefits to be derived from the proper use of morphia and chloral, and called attention to the method of lifting the head than 700 years ago it was founded by one Rahere, until the bag of waters is formed.

## FOREIGN CORRESPONDENCE.

#### LETTER FROM LONDON.

Scarlet Fever from Milk-The Society of Public Analysts-St. Bartholomew's Hospital - Pasteur's Rule concerning Rabies—Spontaneous Hydrophobia.

Dr. Wynter Blyth, Medical Officer of Health to the Marylebone Vestry, has just presented to that having been, enriched from time by charters and body a report which throws new and unexpected light grants of lands from successive monarchs, and legaon the origin of a recent outbreak of scarlet fever, cies from the pious and charitable. It now possesses A minute examination leads to the inference that 13,000 acres of landed property in the home counevery case in the outbreak referred to was traceable ties, and 2000 houses in the city and other parts of to the drinking of milk from a cow or cows on a the metropolis. These estates are administered by model farm some distance from town. Dr. Blyth, a treasurer and a board of management. The nursafter mentioning that Dr. Power has been deputed to ing staff is nearly 200 strong, and consists of sisters investigate the matter, says, one of the cows has been who are distinguished by their blue dresses, the nurses bought and removed to the Brown Institution, where being attired in dark gray and the probationers in Dr. Klein is making experiments with the milk and light gray. These probationers are divided into two secretions. It appears that between December 1st classes. Forty are ordinary probationers, well-eduand 29th there were in the parish sixty cases of ill-cated women, who bind themselves for three years, ness having this one thing in common; that the passome of them daughters of clergymen, and who retired to the best light that the passome of them daughters of clergymen, and who retients drank milk from one of the three dairies ceive payment for their services; whilst about eightgetting their supply from the same model farm. Some een are special probationers, who pay a guinea a week of the sufferers had simple sore throat, others a mild at- for instruction in the science of nursing, and for whom tack of scarlet fever, a few a severe attack. In one case a home, presided over by a lady superintendent, is death resulted. Those who drank no milk save that provided. To the present treasurer is to be ascribed which had been boiled, were not attacked, and most the credit of introducing the system of training of those who merely took a little milk in tea and nurses at St. Bartholomew's, for until his appointment coffee escaped. Children taking considerable quan- as treasurer, in 1873, there was not a single skilled tities of lukewarm or unboiled milk, and adults nurse in the establishment, although there were many drinking raw milk formed the bulk of cases. Several in the newest of our metropolitan hospitals—St. cases of infection from the cream occurred, and I Thomas's. It should be mentioned that with the had reason to believe that the disease-influence was steadily increasing value of the hospital's house in a more concentrated form in the cream than in property-for the landed estates are, owing to the the milk. This report is necessarily incomplete, for general agricultural depression, not in a very flourthe full history will not be known until Dr. Power ishing condition—is a parallel increase of expendipublishes his report and gives details relative to cases ture, consequent on the entire reform in the system in the parishes of Hampstead and Hendon, infected of nursing, the rebuilding of schools, museums, and either direct from the farm or indirectly through class-rooms, and the maintenance of a convalescent dairy, together with the results of the examination of home at Swanley, in Kent, into which home are adthe cows and Dr. Klein's experiments. There can mitted patients only who have passed through the be no doubt but that from these data most important hospital. The programme of the entertainment condiscoveries may be made as to the origin of scarlet sisted of two dramatic pieces, sustained with much fever, and the results are awaited with much interest ability by the members of the Hospital Dramatic by the profession.

At the annual meeting of the Society of Public are true and which are false labor pains. The be- Analysts, Dr. Alfred Hill, of Birmingham, was reginning of labor is not always easily determined. He elected President for the ensuing year. The President advocated the use of hot water and unguents in in the course of his address referred to the work done by the Society during the year in the advancement of Dr. Fry said he had reference to those pains science and in the improvement of analytical methods, which were strong enough to keep the patient awake, and alluded to several matters of interest in conprevent her from obtaining proper nourishment, nection with the working of the "Sale of Food and

> The annual Christmas festivities have just been pital. A singular interest attaches to the history of this well-known hospital, from the fact that more who had been the king's jester, but later in life became a monk, whereupon he made a pilgrimage to Rome. There he visited the monastery of St. Bartholomew, situated upon an island in the centre of the Holy City, where the sick were taken in and tended by the monks. On returning to England he obtained an interview with the king, who granted him the space of ground outside of the then limits of the city—the same site on which the present hospital stands-then, as now, known by the name of Smithfield. From that date the hospital has been doing the good work in which it is now engaged, Club. Between the pieces was a concert, the part-

by a large audience.

dog have been sent to Paris at the expense of the has just been mentioned of well-established "spontaneous hydrophobia" in a man aged 29. Not only did all the symptoms which characterize that malady declare themselves, but the matter taken from the patient's body when he died communicated it to rab-

## LETTER FROM PARIS.

Prof. Peter on the Parasitic Doctrines of Disease.

fessor of Medical Pathology at the Paris School of Medicine, as being an avowed adversary of the paraand art of medicine of the present day. As the parasitic doctrines have been published in the medical It may, therefore, be interesting to know what arguvance against them, and it is with this view that I here reproduce notes of a lecture recently delivered by Professor Peter on the subject. The necessary distinction, said the Professor, between the lesion who look upon tuberculosis as a parasitic malady and originate in our own organisms, that the different consider the rod, which the microscope has revealed viruses generated in us may be transformed under in certain tuberculous lesions, as the cause of the certain influences into agents of protection of the malady. Thus we have now two tuberculoses: The rganism, and M. Pasteur ought to be commended tuberculosis of the old school was a general, spon- for his researches and his experiments, but we must taneous, intrinsic malady, created by the organism not cry victory too soon.

songs in which were admirably rendered by members sion of a foreign body. According to this view of of the Hospital nursing staff and of the Hospital the matter, the bacillus is at the same time the cause Musical Society. The whole was thoroughly enjoyed and the criterion of the nature of the malady. It consequently follows that if, in the lesions which clin-M. Pastenr has laid down the following rules as to icians have always looked upon as being scrofulons. hydrophobia in dogs, which will be read with inter- bacilli are found, these lesions ought henceforth to est: "Every dog, whether it eats or not, that is be reputed tuberculous; this would lead to the admisattacked with rabies, dies in a few days. When it sion of the identity of scrofula and tuberculosis, eats, death is delayed a few days, but that is all. It which would evince gross misapprehension of clinical cannot live for more than ten days, and will probably observation. If, on the other hand, in granulations die on the eighth. During the interval rabid symp- manifestly tuberculous, one does not find bacilli, but toms will be shown. Lock up, therefore, and chain zooglea, the partisans of the parasitic doctrine conthe dog. Be careful in feeding it, and in clearing clude that the malady is tuberculous, but of a zoogleeic away its litter not to go within biting distance. If tuberculosis, which would be the height of confusion. it survives the tenth day you may have an easy mind. After giving a description of the bacilli and the vari-If it has bitten a person before being secured, the ous maladies in which they are found, Professor Peter wound must be attended to. It should on no ac- admits that the discovery of Koch has been a real count be neglected. The spittle of a perfectly conquest. Koch has taught us, that in revealing the healthy dog may contain microbes which would cause existence of bacilli, to better recognize the tubercle. an abscess. In very rare cases the bites of such as Laennec taught us to recognize the divers modaldogs have caused septic blood-poisoning. If rabid ities of the tubercle, the grey granulation. The symptoms declare themselves, a person who has been crude, caseous tubercle, grey infiltration. So far the bitten should at once go to M. Pasteur's laboratory, discovery of the bacillus of Koch is a conquest for and he will be happy to treat them for rabies. Two morl id anatomy; it is also a conquest for semiology, Hungarian soldiers who were lately bitten by a mad as the presence of the bacillus permits us to distinguish the sputum of a tuberculous patient from that

But since the discovery of Koch, the profession seems to have gone too far in the wake of enthusiasm. It was believed that the recognition of this rod, a pretended parasite, was going to open a new era to the therapeutics of tuberculosis. It is a strange error which consists in deducing therapeutics from morbid anatomy, which is only the natural history of lesions, as semiology is the natural history of symptoms, and in confounding the lesion, which is only a product, with the malady, which is an act, it will be just as if one confounded surgery with medicine. The lesion is a "fail accompli." It is a manifestation of a devithe physician struggles against an act when he treats ing nature of the pneumonic, to the vitality of the Heuritic, that he should address himself. Medically speaking, in discovering the bacillus, there was no therapeutic conquest made; as the parasite was considered, hypothetically, the cause of tuberculosis, it was thought that by impeding the life of the parasite one would cure the tuberculous affection. This, said

After giving a description of the origin and development of the various bacilli, as shown in the labor-

In concluding his lecture, Professor Peter explained why he should be so embittered against the parasitic The tuberculosis of the new school is a malady of doctrines, "which seem to spread after the fashion of extrinsic or accidental origin, produced by the inva- the parasites;" it is because those in favor of the

doctrine "are mistaken in taking the effect for the They hied home, went to work upon an organization phthisical subjects had caught the disease by contacontagion. The therapeutic consequence is to seek to combat the parasite without, in organizing quarantines against tuberculous subjects, and within in administering microbicide substances such as creosote, carbolic acid, etc. Finally, M. Peter finds the social sanction in the reproduction, in our times, of savage scenes worthy of another age. That which was seen lately at Naples and at Sicily, for the choltowns in the south of Italy, where the landlords Secretary-General, which stated as follows: compel the unfortunate subjects of phthisis to cancel compel the unfortunate subjects of phthisis to cancel "We have the honor to inform you that at the close of the their leases. It is to prevent the generalization of Sixth Session of the International Medical Congress, held last such monstrous acts that M. Peter believes it his duty to combat with all his force, to convince his confrères, to combat with all his force, to convince his conferes, to instil his ideas into his pupils, and to keep the public on their guard against the delusions which trouble the brains of our contemporaries.

"This desire having been communicated to the presidents of the Royal Collegates from the various universities, or other than the public on their guard against the delusions which the brains of our contemporaries.

Prof. Peter was a pupil and friend of Trousseau, whose doctrines he is supposed to have fully imbibed, and from his present position his opinions are worthy of some consideration.

## DOMESTIC CORRESPONDENCE

#### THE NINTH INTERNATIONAL MEDICAL CONGRESS.

TO THE EDITOR OF THE JOURNAL:

matter of the next meeting of the International gust 2. Medical Congress, which has not attracted attention, undue haste exhibited by the Original Committee of for according to the American Medical Association Seven to get out their work ad captandum vulgus, any consideration whatever in the organization and The editor of the Philadelphia Medical News, in his control of the Congress, asserting that it only has a specious editorial reply to "Country Doctor" in his membership of 3,000 members against 40,000 physissue of January 30, although he was one of the seven, cians excluded from the Congress by its present carefully abstains from any explanation of it.

These seven, whom he with characteristic modesty describes as "the most eminent contributors to the adgo to Copenhagen and invite the Congress to hold contradiction or correction. Assuming that the its next meeting in this country. They satisfactorily promised the members a generous welcome, he pledging himself to do a variety of things without reservation (expressed, at least), as to the contingency of his Committee of Seven or the coadjutors they them-

cause, a morbid product for a generator of disease, which showed the evidences of the personal preferand analogy for identity." Certain consequences of ences and enmities of some of the individual seven, such confusion broke out in the famous inoculations and published all over Europe their cut-and-dried of Ferrán, who pretended to produce an experimental scheme for a meeting which was not to take place cholera, as are so many experiments of the kind as until 1887, without waiting the few weeks before the performed in laboratories. As there is no error which meeting of the American Medical Association, to has not its sanction, the parasitic doctrine has had report their work to that Association in whose name, one in a social and medical point of view. To con- by whose authority and under whose appointment sider tuberculosis as parasitic is to admit that all only they had anything whatever to do with the matter.

Now let us see how differently things were mangion and that they can communicate it to others by aged for the Seventh Session of the International Medical Congress, which was held in London in 1881. At the Sixth Session of the Congress, held at Amsterdam in September, 1879, it was determined to hold the next meeting at London, in 1881, and in September, 1880, one year after the adjournment of this Sixth Session, and *only eleven months* before the convening of the Seventh, a circular was issued from London, signed J. Risdon Bennett, Chairman of the era, takes place every day, every year, in certain Executive Committee, and William MacCormac,

> September in Amsterdam, under the presidency of Professor Donders, of Utrecht, a unanimous desire was expressed that the

> colleges and other public bodies of the United Kingdom, including the principal medical societies, the British Medical Association, and the medical departments of the army, navy and India office, in order to obtain a thoroughly national represent-. ation of feeling and opinion.

> "The response to this appeal having been most cordial, it was decided at the meeting of delegates thus convened to com-ply with the wish expressed at the meeting at Amsterdam, and to hold the Congress in London. A general committee of organization was appointed, an executive committe, and a reception committee to carry out the necessary details.

"The work of the Congress will be carried on in fifteen Sections. The days of the meeting will extend from Wednesday, the 3d, to Tuesday, the 9th of August, both days included. A Dear Sir: There is one significant fact in this reception of welcome will take place on the evening of Au-

The London Medical Times and Gazette (since which to the writer seems important, namely, the gone out of existence) rebuked the London Lancet Committee on Organization. The British Medical Journal, which is no better informed than this as to the representative character of the American Medical vancement of medical science in the country in which Association, may well be suspected of arguing exthe Congress was to meet," were commissioned by parte, but there are American medical journals which the American Medical Association in May, 1884, to have reproduced this unfounded statement without American Medical Association was not the only source performed this office, and through their spokesman whence "to obtain a thoroughly national representation of feeling and opinion," as was obtained in Great Britain; on what assumption can the Original not being allowed to have everything his own way selves selected to constitute the General Committee (I do not mean the editor of the Medical News). with them, claim to have accomplished this result?

Were they authorized to act for the American Surgi- them in a way no New York New Coder ever dreamed Association, the American Laryngological Association, the American Academy of Medicine, the American Dimatological Association, the American Public just as legally recognized as the editor of the Phila-Health Association, the Medical Departments of the delphia Medical News. Army, Navy and Marine Hospital Service, the Canadian Medical Association, or, indeed, for anything but the medical profession as represented by the American Medical Association?

If there is any doubt in Europe that a thoroughly national representation of the profession of medicine in this country can be obtained through the American Medical Association, then let there be "convened a meeting of delegates from the various universities, colleges and other public bodies" in the United States (and Canada), including the principal medical soci-Session of the Congress need not assemble until the some of great interest. autumn of 1887. There is not such a mighty need of preparation that an active Executive Committee Penetrating Gunshot Wound of the Abdomen, by Dr. cannot accomplish it all within six months. Many J. K. L. Duncan, of DeWitt. The patient recovered of the previous meetings of the International Medical under treatment by opium and rest, though the ball Congress have been held at intervals of only two penetrated the intestine, as shown by the fact that it

Second in Florence, in 1869; the Third in Vienna, kidney, the assumption being based on the fact that in 1873; the Fourth in Brussels, in 1875; the Fifth a few blood-corpuscles were found in the urine on the in Geneva, in 1877; the Sixth in Amsterdam, in 1879; fourth day. As the ball entered the abdomen about the Seventh in London, in 1881; the Eighth in Copen- one inch above the umbilicus, and then lodged in the hagen, in 1884; and the Ninth will be held in Wash- intestine it does not seem possible that it could have

If the American Medical Association cannot be downward, and somewhat to the left." entrusted with the task of organizing the Congress,

cal Association, the American Gynecological Associ- of doing? In this country, be it remembered, the ation, the American Ophthalmological and Otological homocopath is not the only species of the irregular

### BOOK REVIEWS.

PROCEEDINGS OF THE NEBRASKA STATE MEDICAL Society. Seventeenth Annual Session, held at Grand Island, May 26-28, 1885. 8vo, pp. 385. Lincoln: 1885.

This well-printed volume of Transactions contains eties, the American Medical Association and the much more interesting and valuable material than is Medical Departments of the Army, Navy and Marine usually found in State Society Transactions, and the Hospital Service, in order to obtain such a thoroughly papers are conveniently classified under their proper national representation as was done at London, sections of medicine, surgery, etc. Under the Sec-There is ample time for such a meeting. The Ninth tion on Surgery we find seven papers, all of some and

The first surgical paper is the history of a case of was passed with the fieces. The author assumes in The First Session was held at Paris, in 1867; the the paper that the bullet, 38 calibre, injured the left reached the kidney, even though it "ranged inward,

Dr. Duncan also reports a case of Compound Fracin the name of the whole medical profession of this ture of the Skull, with Depression, in which the skull country, through its present Executive Committee, was trephined, and recovery resulted. The case was certainly the Original Committee of Seven, also appointed by it, can allege still less sanction for their wheel of a wagon loaded with grain had passed. He dictatorial proceedings. When the editor of the was picked up in an unconscious condition, in which Medical News, who was also one of the Seven, "one he was when Dr. Duncan saw him about twenty-eight of the most eminent contributors to the advancement hours after the injury. Examination showed a fracof medical science" in his country, Member of the ture of the right parietal bone over the middle pos-General Committee and Chairman of the Executive terior portion, and extending into the posterior Committee, writes to "Country Doctor" that "at superior portion of the squamous portion of the both the London and Copenhagen meetings irregular temporal bone. Having obtained assistance Dr. physicians are known to have inscribed their names. Duncan made a semi-circular incision extending someon the register and the fact did not in the least disturb what over the sound portion of the parietal, and found the Committee on Organization or detract from the a depressed fracture. The centre-pin of a trephine success of the meeting," does he intend the medical was placed on the sound table of the parietal bone. profession to understand that subscription to the Code superior to the upper line of fracture, so near the of Ethics of the American Medical Association does fracture that a portion of the circle of the groove not mean, so far as he and the rest of the Original (using Galt's conical trephine) would extend partly Committee of Seven are concerned, an honest, manly over the depressed portion of the hone and internal belief in its principles, acceptance of its restrictions to the line of fracture, making the groove evenly to and observation of its obligations, at all times and the internal table; thus enabling him to remove the under all circumstances, but that he and they did disk very readily. One portion of the depressed bone similarly intend not to be in the least disturbed when had penetrated the dura mater, and was removed enurregular physicians inscribed their names on the tire; the other portion was elevated. The whole register, and to sit in cheek-by jowl fraternity with wound was then dressed antiseptically. The wound

Having failed to elevate the depressed bone poisoning by nutmeg, all of which recovered. with such instruments as he had with him, Dr. Hil- On the whole this number of the Transactions of dreth determined not to trephine unless subsequent the Nebraska State Medical Society is far above the symptoms should demand it; the idea being that the average State Society publications. We could wish, loss of brain tissue would obviate the tendency to compression. He was inclined to think that it would be ful in the matter of spelling ("clo. pot." does not stand better to leave the depressed portion of bone where for any drug in common use), and that the next it was than to create a cavity by elevating it, and thus volume will not show so much extraneous matter. render drainage less perfect. The scalp was shaved, Nothing so mars the value and elegance of an article drainage provided for, adhesive plaster to retain flaps, as remarks seemingly intended to be rather funny, antiseptic compresses, and bandage. A considerable We also note a tendency in some of the articles amount of sloughing occurred under one flap, which towards sarcastic remarks. Happily these are faults was badly contused. Brain tissue continued to est that can be remedied. Elegance will often atone for cape from the opening for about ten days, aggregating a want of intrinsic value in an article, and inelegance the amount of 15ss, when it ceased and the opening has ruined many otherwise good papers. filled with fibrous tissue. Two small pieces of detached bone came away during the process of healing. A TREATISE ON EPIDEMIC CHOLFRA AND ALLIED Recovery took place without unfavorable symptoms.

The dictum of Legouest, "whenever there is a be performed," ought to be paraphrased "whenever embracing the consideration of Epidemic Cholera, there is a doubt as to whether a depressed portion of Serous Diarrhea, Cholera Morbus, and Cholera Inbone should be elevated, this doubt is an indication fantum. The author devotes the first 67 pages to a that it should be elevated." In the case reported brief historical statement of the progress of the chief by Dr. Hildreth it is very doubtful if so much as half epidemics of cholera in modern times, and a very inan onne of brain tissue would have escaped had the teresting and impartial account of investigations in depressed portion of bone been elevated. In any regard to the ctiology of the diseasy up to the prescase of doubt it is certainly better to incur the comparatively slight risks of early operation than the and sanitary conditions an important if not controlland sanitary conditions an important if not controllincompared to the progressor times, and a very interesting and impartial account of investigations in
teresting and impartial account of investigations in
the case reported price instorical statement of the progressor times, and a very interesting and impartial account of investigations in
the case reported price instorical statement of the progressor times. greater risks of a probably late operation, or subsetting influence as necessary predisposing causes, he pression is marked, even without brain symptoms; a good resume of the symptoms and morbid anatomy and a depression of three-eighths or one-half of an or pathological changes resulting from the progress inch is to be regarded as marked depression. Dr. of the disease. The next 43 pages contain a very Hildreth also reports an interesting case of Severe full review of the current views concerning the Pro-

was dressed on the third day, and the stitches were a height of fifty feet. There was complete motor removed and a collodion and cotton dressing put on paralysis below the 9th dorsal vertebra, with hyperthe sixth day. A fortnight later the boy was in per-fect health. In connection with this case we may mention one of *Depressed Fracture of the Skull, with* ergot, with blisters on either side of the spine opposite Laceration of the Dura Mater and Loss of Brain the point of injury, were administered during the Tissue, reported by Dr. M. L. Hildreth, of Lyons. A period of fever. The patient was able to walk with boy, act. 6 years, was kicked on the top of the head a cane in the course of six weeks, and continued to by a horse. There was a contused wound of the improve; but the paralysis of the bladder and rectum scalp extending backwards and to the right from a continued. Dr. J. S. Leonhardt, of Seward, reports point one-half an inch to the right of the median line, three cases of fracture, two of the superior maxilla, and at about the junction of the frontal and parietal; and one of the surgical neck of the humerus, which bones, for a distance of about five inches. Anteriorly were successfully and ingeniously treated. In the the wound extended through the bone, and one edge Section on Forensic Medicine and Toxicology is anof the fracture was depressed to the extent of about other interesting paper by Dr. Leonhardt, on Six half an inch. There was some twitching of the ex- Cases of Poisoning with Treatment, the poisoning tremities, but no paralysis, and the patient was "in- agents being Blackberry Balsam, phosphorus, aconite, different on being aroused, and inclined to be let carbolic acid, arsenious acid, and three cases of

DISEASES. By A. B. PALMER, A.M., LL.D., Professor of Pathology, Practice of Medicine, and Clinical Medicine in the College of Medicine and Surgery in the University of Michigan, etc. Ann Arbor, Mich.: Register Publishing House. 1885.

This is a well printed octavo volume of 222 pages, quent epilepsy or insanity. In the case under con clearly favors the doctrine of a specific or essential sideration it seems that whatever drainage was re cause, and that of an organic living germ. But after quired could certainly be better established even after giving due weight to all the interesting microscopic the creation of a cavity than by running the risk of researches of the last three or four years, he does a cavity of suppuration under the depression where not regard it as satisfactorily proved that the comma it could not be easily reached. There can scarcely bacillus of Dr. Koch is the essential cause of epibe a doubt that it is better to operate when the de-demic cholera. The next 20 pages are occupied by Concussion of the Spine, with probable Hamorrhage, phylaxis of Cholera. The comments of the author due to a fall upon the back on frozen ground, from are characterized by sound discrimination and good sense. The same good judgment, aided by personal experience, is seen in the full consideration which to the Treasurer their dues for 1885, they are urgently the author gives to the treatment of the disease, oc- requested to do so at an early day. Having entered cupying 55 pages of the book. The remaining 32 upon another year of membership, they are morally pages of the book are devoted to a very brief con- and legally responsible to the Association for the sideration of the diseases which the author calls al- payment of their annual dues, having already received lied to cholera. This monograph is well worth a for three months of the new year-1885-the Jourplace in the library of every practitioner.

THE FIELD AND LIMITATION OF THE OPERATIVE SURGERY OF THE BRAIN. By JOHN B. ROBERTS, A.M., M.D., Professor of Anatomy and Surgery in the Philadelphia Polyclinic, Surgeon to St. Mary's Hospital. 8vo, pp. 8o. Philadelphia: P. Blakiston, Son & Co. 1885. Chicago: W. T. Keener.

Dr. Roberts at the last meeting of the American family or other representatives are requested to in-Surgical Association, is one of the most valuable form the Treasurer at once of the fact. monographs that has appeared in America for many years. Its value consists in its brevity, its being concise and always to the point, and its wholesome for payment of dues for 1883 and 1884, they are disregard of traditions when experience shows that requested to forward at once to the Treasurer they are untrustworthy. We have already expressed our opinion of this volume in the editorial columns Association. of this week's issue of THE JOURNAL.

### ASSOCIATION ITEMS.

INFORMATION OF IMPORTANCE TO ALL MEMBERS OF THE PROFESSION IN AMERICA.

HOW TO OBTAIN MEMBERSHIP IN THE AMERICAN

MEMBERSHIP.—Every one who attends an annual meeting of the Association as a delegate pays at that time five dollars, and thenceforward becomes a Permanent Member. He continues as such so long as he remains in good standing in the body from which he was originally sent as a delegate. As a Permanent Member, he must pay Five Dollars Annually, when notified by the Treasurer, whether he attends the meetings of the Association of not. Payment -Reading of Minutes of Previous Meeting, Report of annual dues entitles him to receive the weekly of Standing Committees, Miscellaneous Business. JOURNAL of the Association for one year.

indicated, but apply to the Treasurer for membership, "Defective Vision of Children; causes and manageforwarding at the same time to him five dollars and the ment; with reference to pupils in our common certificate of the President and Secretary of their State schools," D. R. Silver, M.D., Sidney. "The necesor local society, that they are in good standing in sities of Physical Education," A. H. Brundage, M. D., such society. They pay five dollars annually there- Xenia. after, when notified by the Treasurer. Members by after, when notified by the Treasurer. Members by Second Session, 1 P.M. Standard Time.— The application can join the Association at any time, and Plague of Streets," Judge Silas H. Wright, Lancaster. they receive regularly the weekly JOURNAL.

from Permanent Members are payable to the Treas- A. Lee Reed, M.D., of Hamilton. "The Climate urer at the time of the annual meeting of the Asso- of Columbus," Starling Loving, M.D., of Columbus, ciation, or immediately thereafter. The payment "What our Country People should know about entitles the member to receive the JOURNAL for one Drainage and Sewerage," H. M. Fisher, M.D., Akron. year from the following July. Payment for 1885, for "Introduction of Sanitary Science in Villages." T. example, entitles the member to the JOURNAL from G. Barnhill, M.D., Finlay. "Municipal Sanitation," July, 1885, to June, 1886, inclusive.

As some of the members have not yet forwarded NAL of the Association.

SUBSCRIPTIONS TO THE JOURNAL, from those who are not members of the Association, should be forwarded to the office of publication, 65 Randolph Street, Chicago, and not to the Treasurer; but all payments of annual dues must be forwarded to the Treasurer, Lock Box 1274, Philadelphia.

DEATHS.—When a member of the Association, This little volume, a reprint of the paper read by who is in regular receipt of the JOURNAL, dies, his

PAYMENT OF DUES FOR PREVIOUS YEARS.—As a few members of the Association are still in arrears the amounts for which they are indebted to the

Transactions of the Association.—These ansive, may still be obtained, with few exceptions, from the Treasurer, at reduced prices. The Index to these volumes will be forwarded on receipt of One Dollar. An opportunity is thus afforded to complete sets of these valuable publications, or to obtain important papers and works which are daily becoming

> RICHARD J. DUNGLISON, M.D., Treasurer. Lock Box 1274, Philadelphia, Pa.

## MISCELLANEOUS.

THIRD ANNUAL MEETING OF THE OHIO STATE SANITARY ASSOCIATION, TO BE HELD IN COLUMBUS, FEB. 24 AND 25, 1886.

First Session, 9:30 A.M. Standard Time, Feb. 24. "The Relations of Christianity to Public Health," E. MEMBERS BY APPLICATION are such as have not R. Eggleston, M.D., Mt. Vernon. "Mistakes in become Permanent Members in the manner above School Architecture," Prof. P. W. Search, Sidney.

"The Climate of the Staked Plains, with particular WHEN DUES ARE PAVABLE.—The annual dues reference to Midland Texas as a Health Resort," C. C. L. Van Pelt, M.D., Toledo.

officers; selection of next place of meeting.

Fourth Session, 9:00 A.M. Standard Time, Feb. 25.—"Condensed Milk," F. H. Darby, M.D., Morrow. "The Meat Question," E. T. Nelson, Ph. D., of the Third and Fourth Generations, and how can they be avoided?" R. Harvey Reed, M.D., Mansfield. "Domestic Hygiene," G. C. Ashmun, M.D., Cleveland. "Sanitary Plumbing and House Drainage,"

James Allison, Cincinnati.

Fifth Session, 1 P.M. Standard Time.—"Tests for Impurities in Water available for Physicians' Use," by Fire," G. S. Franklin, A.M., M.D., Chillicothe. "Bovine and Humanized Virus and Supply of Virus," H. J. Sharp, M.D., London. "Cholera and its Prevention," D. N. Kinsman, Columbus. Miscellaneous January 16, 1886. business, introduction of officers-elect, appointment of standing committees, adjournment. quarters of the Association will be held at the Neil House.

Arrangements have been completed for the usual reduction of rates on all the railroads centering at Columbus; members will be returned at one cent a mile.

EDWARD ORTON, LL.D., President. Columbus.

#### R. HARVEY REED, M.D., Sec'y, Mansfield.

The following named railroads will return all attending the meeting at one-third the lowest unlimited fare, provided they apply to the Secretary, R. Harvey Reed, M.D., Mansfield, Ohio, within a week or ten days of the time of the meeting, and obtain the necessary certificate for the same, giving the name of the road and the station they desire to start from:

Baltimore & Ohio; Chicago, St. Louis & Pittsburgh; Cleveland, Columbus, Cincinnati & Indian- Babin, H. J., Surgeon, ordered to U. S. Str. "Vandalia." apolis; Cleveland, Akron & Columbus; Columbus & Cincinnati Midland; Columbus, Hocking Valley & Toledo; Indiana, Bloomington & Western; Pittsburgh, Cincinnati & St. Louis; Scioto Valley; together with all the important lines between Pittsburgh, Wheeling and Buffalo on the East, and Chicago and St. Louis on the West.

Return tickets will be issued at Columbus during the meeting at one cent a mile, on presentation of Bennett, B. II., Asst. Surgeon, died at Detroit, Mich., Feb. certificate from the Secretary, to all who come, and paid full fare over the Toledo & Ohio Central R'y.

THE PLYMOUTH, PENNSYLVANIA, WATER COMPANY, is reaping a whirlwind of legal action. Fourteen suits have been brought against it in the courts of Luzerne county by the relatives of those who died of typhoid fever last summer. It is probable that many more will be brought. It is claimed by the plaintiffs that the fever had its origin in contaminating material

Third Session, 7 P.M. Standard Time.—To be held which reached the water supply from a cabin on the in Senate Chamber, Capitol. Address of Welcome, banks of a stream which feeds the Plymouth reservoirs. His Excellency, J. B. Foraker, Governor of Ohio. The result of the trial will be looked for with interest, President's Annual Address, "The Progress of Sanias it will be difficult to prove the trail of a typhoid tary Science," Prof. Edward Orton, L.L.D., Columbus. fever germ. Should the plaintiffs succeed in recover-"Food and its Relation to Disease," J. H. Herrick, ing judgment for damages against the company it M.D., Cleveland. "Artificial Feeding of Infants," would tax the resources of it to a severe point, but W. J. Conklin, M.D., Dayton. Annual election of there would be a warning to other water companies. They will have to learn that the public health of which they are so largely the conservators, is a trust so sacred that they must use the utmost precaution to prevent the conveyance of disease through water they Delaware. "Who is Responsible for the Iniquities supply. The water-shed must be made a subject for the keenest scrutiny.

If the plaintiffs in these suits recover damages it it may be a warning to cities who control their own works, as well as to private water companies. It is a question whether a municipal government is not as liable when it supplies impure water as it is when a leg is broken by imperfect sidewalks. The care of Curtis C. Howard, M.C., Columbus. "Purified as the water-supply does not receive the attention from the public that it should, and a few successful suits for damages will show the public that it is within its power to demand pure water. - Sanitary News,

Sanitary Convention at Howell, Michigan. --The Michigan State Board of Health will hold a Sanitary Convention, at Howell, on March 3 and 4.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTTES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U. S. ARNIV, FROM JANUARY 36, 1886, TO FEBRUARY 5, 1886.

Major Richard S. Vickery, Surgeon, assigned to duty in connection with the Army and Navy Hospital at Hot Springs, Ark. (S. O. 24, A. G. O., Jan. 29, 1886.)

First. Lieut. A. R. Chapin, Asst. Surgeon, relieved from temporary duty at Ft. Robinson, Neb., and to rejoin his proper station, Ft. Laramie, Wyo. (S. O. No. 11, Dept. Platte, Feb. 2, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVV, DURING THE WEEK ENDING FEBRUARY 6, 1886.

Dixon, W. S., Surgeon, ordered to Marine Rendezvous, New York, to relieve Surgeon Babin.

Whiting, Robert, P. A. Surgeon, ordered to U. S. Str. " Vandalia."

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U, S, MARINE HOS-PITAL SERVICE FOR THE THREE WEEKS ENDED FEBRUARY 6, 1886, .

3, 1886.

Watkins, R. B., Asst. Surgeon, to proceed to Detroit, Mich., for duty. Feb. 3, 1886.

Pettus, W. J., Asst. Surgeon, appointed an Assistant Surgeon Feb. 5, 1886. Assigned to duty at New Orleans, La., Feb. 6, 1886.

#### CORRIGENDUM.

In the article on "Coryza" by Dr. Geo, N. Monette, JOURNAL of January 30, on 4th line of 1st paragraph read heating houses instead of "treating processes." In Japaragraph read most Actories for "mop factories." The formula at end of article should read Bismuth submit, 31, Idodform, 91). S. Apply locally.

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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CHICAGO, FEBRUARY 20, 1886.

No. 8.

## ORIGINAL LECTURES.

IMPERFORATE URETHRA-EXCISION OF THE SUPE-RIOR MAXILLA-REMOVAL OF AN ENORMOUS HAIR MOLE FROM THE FOREHEAD.

> A Clinical Lecture Delivered at the Mercy Hospital, Chicago,

BY EDMUND ANDREWS, M.D., LL.D.,

SURGEON TO THE HOSPITAL.

this subject is exceedingly scanty, because the cases to-day. are few. It is asserted by authors that new-born Excision of the Superior Maxilla. - Six months ago duty is first to see whether this may be a mere adhe- seat of the second upper molar tooth. It was reduty is first to see whether this may be a finer adnession of the urethral walls, capable of being separated.

If so, we may avoid any more serious operation. You will notice incidentally that this patient, though only eight hours old, takes its ether exactly like an the hard palate. The growth is too soft to be an adult, and seems to require fully as much anæsthetic osteo-sarcoma. It is therefore either ordinary sarin proportion to its size as any older person.

atus, using some firmness of pressure, I find the made, owing to the haste of the patient. We will parts separate under the effort, and a true meatus remove the growth. appears without a drop of blood being shed. Select-

ment gradually advancing, and no blood flows. We seem to be separating adhesions rather than perforating tissues. The force required is a good deal, and there is doubtless risk of making a false passage, but that will not be an irreparable evil. Patiently advancing the instrument in this way, you see that now, at the depth of an inch and a quarter, the tip of the sound enters a normal urethral canal and then glides

on without resistance into the bladder.

Ordinary surgical text-books scarcely refer to the We have here an unusual case. This patient is possibility of this operation except when the occlionly eight hours old, and is brought here because the sion is so thin as to be merely a septum across the urethra is imperforate. Examining the end of the passage. I was led to attempt it in your presence penis, the mucous membrane extends smooth and by another case brought to me a few weeks ago, glistening over the end of the glans without a sign which seemed almost precisely like this. The child of an opening where the meatus should be. How- was two days old. No meatus could be found. Modever, if I compress it laterally so as to throw the erate use of a probe made no headway. Discoursurface into wrinkles, there is a slight depression at aged in trying to reopen the natural route, I went the proper place for a meatus. Absence of the nre- behind the scrotum and cut down upon the urethra thral canal is generally due to hypospadias, in which at the middle of the perineum, thus giving a temcase the channel is not strictly non-existent, but is porary outlet to the urine. After a time, owing to only uncovered, from the non-development of its the contraction of the wound in healing, the flow of floor, so that it is an open groove. In this case, urine was impeded and some force was required for however, the parts are anatomically finished, so to its expulsion. One day, to the surprise of all parspeak, but the canal was either never formed or it ties, the urine burst suddenly forth by the natural has become obliterated in utero. You will, however, route, where there had been merely an adhesion of bear in mind that just as the prepuce is sometimes the urethral walls, which yielded to the pressure of found congenitally adherent to the glans, so we may the fluid behind the obstruction. In all probability, suppose the walls of the urethra to be in some cases had I been more persevering, I might have succeedadherent to each other. The surgical literature of ed by the same operation which I have shown you

infants may die of the obstruction. Obviously our this patient had a small tumor on the gum at the coma, or a carcinoma. As the glands of the neck If I now take a large probe and sweep it along are not perceptibly affected, there is hope that it may the fold which marks the site of the obliterated me- be sarcoma. No microscopic examination has been

First comes the extraction of the canine tooth in ing now a metallic sound somewhat conical at the front of the tumor, to make room for dividing the tip, but still blunt, and of the size of No. 2 of the jaw; next we divide the npper lip in the middle, English catheter scale, I press it into the meatus. Carry the incision around the alæ of the nose, and thence straight upwards. The second incision passes glans firmly, and pressing the tip slowly on in the line where the urethra should be, I find the instruand draw it backwards. The duct of Steno is entangled in the growth, and must be sacrificed. Professor Marshall, who is present with his dental engine, now divides the arch of the jaw, the nasal THE TREATMENT OF CICATRICES IN THE COLLUM process, and the anterior root of the zygoma. With a thin chisel I divide the arch of the hard palate, and seizing the growth with lion-jaw forceps, readily bring it away. You see that it fills the antrum, without adhering to it except at its posterior and outer border. These places have therefore to be cleared out 1874, Emmet indicated the operative treatment of with the gouge-forceps and bone-scoop, and the cavity cauterized with crystalized chromic acid. Replacing the cheek by the aid of suitable sutures, we will return the patient to bed. The operation would served. They had been recognized as the cause of have been more hopeful of permanent success had a relatively infrequent eversion (E. Martin) or of an I seen the patient earlier.

Hair Mole of the Forehead .- This infant has an

and wrinkled.

to consider carefully the wisest way of dealing with rents in the cervix. His proposition to heal these it. No amount of electrolysis of hair bulbs will an by operation, to perform trachelorraphy, excited very swer here. The following plan promises best: First extraordinary notice at that time, since it occurred I dissect the skin of the mole from the top of the just when far more attention was being given to seeyelid and carefully take it away up to the place curing a widely-gaping aperture of the uterus, and where the brow ought to be. We must now make the influence of the bilateral discussion was supreme. an eyebrow, which I will do by cutting two arched incisions, leaving a strip of the mole between them Americans very rapidly, considering all things; in to match the form and length of the brow on the Europe, however, it was quite the contrary, and this opposite side. As we do not know exactly how the operation was received very doubtfully, especially in contraction of the wound in healing will affect the Germany, although at that time operative gynecology form and position of the new brow, I make it a little was in a state of active development. First there wider than is ultimately needed, so that at a future was opposed to the method of Emmet the general time I shall have room to trim it to an exact corres- disinclination in Germany to favor operative interpondence with its fellow. Now I will raise the skin ference with the portio vaginalis. Then the attempts above the arch, and dissect it off as high as is neces- which were made to perform trachelorraphy were not sary to give her a forehead as high on this side as on seldom followed by imperfect results; the old cicathe opposite part. I will not remove that part of tricial formation soon showed itself again more or the mole embraced in the limits of the hairy scalp less, or, on the other hand, there was formed a stenbecause, as she grows older, it will match the rest of osis, an evil which just at that time it seemed to be her hair in color, and by dressing it low on the fore- a duty to zealously overcome by discissions. head she will be able to cover nearly the whole cicatrix from view.

reasonable degree of comeliness, and perhaps even to some measure of positive beauty.

## ORIGINAL ARTICLES.

## UTERI AND IN THE ROOF OF THE VAGINA.1

BY A. MARTIN, M.D.,

PROFESSOR IN THE BERLIN UNIVERSITY; CORRESPONDING MEMBER OF THE GYNÆCOLOGICAL SOCIETY OF BOSTON.

When, as long ago as 1862, and then more fully in rents in the cervix, which he considered as the sources of a whole series of gynecological maladies, these conditions had, up to this time, been very little ob-

ectropium (Roser).

Emmet, on the other hand, regarded these rents enormous hair mole extending from the transverse as the sources of catarrhs of the cervix and of the suture of the skull forwards and down over the whole the corpus uteri. He emphasized the difficulty and right side of the forehead as far as to the upper bor- even occasional impossibility of healing these cader of the eyelid. The hair upon it is exceedingly tarrhs as long as the rent exists. He further pointed thick, and darker than that on other parts of the out that these scars are the source of long-continuscalp. However, the dark eyelashes show that, as ing, ever-spreading irritation in the pelvis. Finally, the patient grows older, her hair will become black, he very particularly insisted that such rents hinder and match that on the mole. The skin on the centre the proper development of the uterus, if it become of the growth is nearly black with pigment, and thick | pregnant, and that in consequence, in a great number of cases, abortion is occasioned by them, and The immense size of the mole renders it necessary that many women who habitually abort suffer from

Emmet's propositions made progress among the

But even when, in Germany, the plastic operations on the portio vaginalis in great numbers were well Having thus removed all that is necessary of the received, and authors like Breisky, Spiegelberg, and mole, I take from the outer side of the patient's Schröder, and among others the writer, busied themthigh some thin shavings of skin and graft them upon selves with this operation, the operation of Emmet the raw area, to assist the process of cicatrization, remained a rarity. Although, perhaps not least by and improve the smoothness of the surface. In the recommendation of amputation of the portion grafting for this purpose we shave the grafts very vaginalis which I warmly advised in 1878, at the thin, but apply them in large pieces, from half an inch meeting of German Physicians and Naturalists in to an inch in length, which often adhere very per- Cassel, as imperatively indicated for wider fields of feetly. I have had them succeed an inch and a half usefulness, gynecology was led so far that excision in length. The result in this case will be to remove and amputation of the lips of the os uteri were una hideous deformity, and to restore the patient to a dertaken not solely on account of chronic metritis

<sup>&</sup>lt;sup>1</sup> Read before the Boston Gynæcological Society by E. W. Cushiog, M.D., for the author, on December 10, 1885.

and malignant degeneration, and in Germany this according to the method of Hegar or Schröder, or operation became very frequent; yet, notwithstand- as I do it as a rule, according to a plan combining ing all this, strangely enough Emmet's operation did both of these (see A. Martin's Pathology, Treatment not come into the class of the frequent gynecologi- and Diseases of Women, 1885, p. 285), gives a stump cal procedures. This seems somewhat strange to where, after completion of involution, very frequently American authors, especially if, after a prolonged so-the previous operation can be as little discovered as journ in Germany, they observe our daily work; and the alterations which led to the operation. this impression is fully expressed in the late work by

ever, is not at all that we do not recognize the im- I have repeatedly endeavored to combine the typical portance of the cicatrices, that we regard the removal Emmet's operation with excision of the diseased muof the latter as anything difficult, or that the perma-cous membrane, and Schröder has also attempted nent results of our operative interference on the this. For my part, however, I have given up this cervix were unsatisfactory; but the question was first method completely, and in these cases I practice considered whether the cervical rents are really the simply the typical amputation. essential cause of the troubles on which Emmet insisted. The answer to this question is that we see on and terminates in very different ways. It may so cervical rents causing no symptoms too often to per- heal, corresponding to the quick changes in the cermit us to reply affirmatively. There are either, (1) vical tissues, that scarcely any hardness and scarcely Catarrhal complications, i.e., affections of the mucous any cicatricial tissue can be distinguished, either by membrane; or (2) Peculiar and rare cicatricial form-palpation or by the microscope. In other cases the ations, which give importance to the cervical rents, cicatricial ramifications extend far beyond the immeand in such cases these should be attacked.

find catarrhs as complications of cervical rents. But the body of the uterus, which may disturb the phyin such cases the catarrh is not dependent on the siological position and shape of these parts of the rent as such. It has either originated as an inde-uterus in connection with respiration, and motion, pendent disease simultaneously with the injury of and fulness of the adjacent organs, in connection with the cervix, or it has occurred there later. Doubtless, their changes during menstruation and pregnancy. then, the symptoms of catarrh are much more prominent. The development of the glands of the area tended into the parametrium, reaching the base of affected, and the increase in volume connected there- broad ligament and the roof of the vagina, and drawwith, cause a protrusion of the diseased mucous ing them out of shape, and, in a unilateral affection, membrane; the torn os uteri gapes, the cervical mu-drawing the uterus as far as the wall of the pelvis, or cous membrane protrudes swollen, and with its hy- in cases of bilateral cicatricial formation, fixes it in persecretion and its hemorrhages shows the well the middle of the floor of the pelvis. Such fixation known and very typical appearance. The glandular shows its presence at every jar of the body, at every new formation which we must recognize as the anal change of position of the uterus. On this account tomical foundation of the erosions, according to C. severe distress is occasioned in almost all stages of Ruge's very significant investigations, also keeps the development of the malady, frequently defying spreading on the surface of the rent of the cicatricial treatment by medicaments. Operative interference tissue here developed, as it may also cover the whole is called for in these cases, and with such indications surface of the portio vaginalis (see plates LIX of E. we practice it with the best results. Martin's Hand Atlas, edit. II of A. Martin). Un- Cicatricial formation limited to the cervix is comdoubtedly these complications resist obstinately any monly treated by us by the typical trachelorraphy of therapeutic measures. This form of catarrh can only Emmet. The results of this operation correspond be healed by a careful treatment, so that such pato to the good success which Emmet himself reports tients must frequently suffer very severely, and be from it. When the mucous membrane is healthy a come chronic invalids.

preferred, as it appears, to use a more energetic torn in the external os. treatment of the affection of the mucous membrane, diseased one. The majority of cases of amputation, such a way that the wound, which was first round or

But in the few cases which heal thus typically there Bigelow ("Berlin a Medical Centre"). is moreover a proper aperture of the orifice with the The cause of this peculiar state of things, how-

The cicatricial formation of rents in the cervix goes diate vicinity of the rent. Thence arises a displace-There is not the least doubt that we frequently ment by contraction of the cervix, and also of the

Severe consequences occur when the rent has ex-

good scar is formed, which in case of subsequent Emmet prefers to cure this affection of the mucous pregnancy neither shows itself as a hinderance to the membrane by patient local treatment, and then perdevelopment of the body of the uterus or cervix, forming trachelorraphy. In Germany it is generally nor during delivery is found to be a weak spot, easily

In cases of extension of the cicatrices in the roof after some trial of what treatment with medicaments of the vagina I am accustomed to use a somewhat for a reasonable period can accomplish. In such a different procedure. I first separate the cicatricial case, however, there is no object in making also a tissue of the roof of the vagina and of the floor of trachelorraphy as such. For it is better to combine the pelvis from the cervix uteri, and excise the forthe excision of the mucous membrane with that of mer completely from its environment. Then, if the the cervical cicatrices; amputate the vaginal portion. cervical mucous membrane be healthy, I refresh the By this means, as a rule, a very well shaped new scar in the cervix, and here also I remove thoroughly portio will be formed in place of the torn, everted, all cicatricial tissue. Then the sutures are put in in

even gaping parallel to the median line of the floor relief, and when the victim vomits, the mountebank versely through the roof of the vagina. This scar is told he has ejected. running transversely through the roof of the vagina In view of our own observations of human weakfrom the wound by its own weight towards the me- into the ear for the relief of pain, and this treatment dian line in cases in which it has been distorted was sufficiently effective to preclude the necessity of towards the side.

of the roof of the vagina is generally attained. Con- has been advocated by numerous prominent authorivalescence in the cases observed by me was attended ties in medicine from his time to the present. Apolby no difficulties. The final result, however, was lonius recommended burned opium and castoreum. surprising in the completeness of the removal of the Archigenes practiced venesection and warm baths to severe symptoms which had accompanied these cica- the ear. Galen recommended warm wolf's milk or tricial contractions. One of my former assistants, pepper mixed with old oil for earache from cold; but Dr. Czempin, has undertaken the presentation of the for inflammatory earache he used fat of geese and detailed histories of the cases observed by me, so hens, and for severe pain, a mixture of opium, musk that I can refer to this work, which will soon appear, concerning the various particulars of the cases.

## COCAINE AND OTHER ANODYNES IN OTOLOGY,2 BY SETH S. BISHOP, M.D.,

Berlin, October 8, 1885.

of anodyne aural therapeutics. We sometimes look

of the pelvis, is united to form a scar running trans- exultingly points to the parts of liver which the patient

terminates in the end of the cervical rent; the latter ness and credulity, we should be prepared to look is closed either according to Emmet's plan, or, if with consideration upon many of the worse than usethere be at the same time disease of the mucons less practices of the ancients. To begin with Hipmembrane, an amputation of the lips, excision of pocrates: a deceptive treatment has been imputed to the erosions, and curetting of the mucous membrane him which he probably never practised. He is cited of the uterine body is performed. The dissection of as having recommended that "If any person have a the cicatrix from the cervix is made with a pointed pain in his ear, the physician should roll a bit of wool two-edged knife, and seems easy to perform when about his finger, and then pour some warm oil into the parts are put properly on the stretch with the the ear, and then, taking the wool in the hollow of his patient on her back and the vagina held well open hand, he should hold it before the ear, in order to by a Simon's speculum and Hegar's holders (see A. make the patient believe it has come out of it. In Martin's "Diseases of Women," p. 24, fig. 15). The order to make the deception complete, the wool wound gapes, often large arteries spurt (branches of should be at once thrown into the fire." The prothe uterine artery), and require quick action in con- cedure is not consistent with what we know of Hiptrolling the hæmorrhage; or on the other hand tem- pocrates, and moreover was not necessary, for he porary ligation at the sides. The womb falls away himself recommended the instillation of warm water practicing such a deception. His warm water treat-After sewing up the wound a normal configuration ment is one commonly resorted to at this day, and and white of egg, also castoreum, or a solution of opinm in thickly cooked juice of fruit. He took the precaution to use these remedies warm. Cælius Aurelianus employed leeches, cups, poultices and mustard plasters. Marcellus's refined taste was pleased with nothing short of frog's fat; and, to cap the climax of æsthetic culture, Serapion spurns the aid of a being so primitive in the scale of creation surgeon to the illinois charitable eye and ear infirmaty, and as the frog, and soars to the loftiest pinnacle of perfection in the world's evolution, declaring that the fat Before considering the newest and greatest remedy of woman, and that fat only, cures earache. His for annihilating pain, it will be both interesting and rule insists that the milk must be that of a woman profitable to take a brief survey of the past history who is nursing a female infant, if the patient be a boy.

So familiar is the subject that but brief mention with pity on the semi-intelligent, yet unavailing efforts need be made of modern anodyne treatment as apof dumb animals to relieve themselves of great bur-plied to the ear. The popular domestic remedies dens or pains. Similar sentiments are awakened by are sweet oil, molasses, laudanum, roasted onion, glythe scene which presents itself to our view as we look cerine and haarlem oil. The exceptions to be taken back into the darkness of the night of time, when the to these are that the oils are likely to become rancid birth of the infant, Medicine, was attended only by and irritating, and the glycerine and haarlem oil are the nurse of ignorance and the midwife of superstitoo stimulating. Moreover, the effects of most of tion. In the presence of the great evil, pain, which these remedies are practically those of a poultice, all feared and none could conquer, the sufferer's friends namely: warmth and moisture, and are generally to looked on, helpless to relieve, or adding to the unfor- be deprecated. Leeches afford more relief than any tunate's horror by crude, disgusting and aggravating other topical treatment heretofore used by the proremedies. One can hardly believe the stories told of fession. Morphia sulphate in the form of Magendie's ancient practices until he reflects upon the supersti-solution sometimes relieves. I have been in the tions of our own time. Even now I know of a man habit of prescribing it in 10-drop doses, warmed and who drives a thriving business by administering lobe-instilled into the ear. I have found it more effectual lia to every deluded mortal who applies to him for when combined with atropia, of the strength of 4 grains of the atropia to the ounce of Magendie's solution. The warm breath, not blown, but breathed

<sup>1</sup> Read before the Chicago Society of Ophthalmology and Otology, February 9, 1886

gently into the ear, with the open mouth close to the currence of the symptoms at the expiration of an auricle; warm water and warm vapor, especially from hour and a half or two hours. chloroform, are sometimes very grateful; but chloro-form should never be poured into the ear. Warm mention several facts of interest, though somewhat placed lightly in the external meatus has proved very I have dissipated a reflex earache, while curing the mitigating. In many cases of acute otitis media toothache. I have operated on squint eyes under which have come under my treatment before the cocaine anæsthesia without producing any pain. discovery of cocaine, I have not been able to give However, it is not a suitable substitute for atropia to patients such complete relief from pain as to secure relieve pain, for its continuous application to the sleep at night without exhibiting sedatives internally, cornea seems to produce opacities. It dilates the such as chloral, bromide of sodium or potassium, pupil when used locally, whereas in toxic doses inand morphine.

plicit: I have repeatedly employed it in aural dist he result of procuring sleep. eases in which an acute inflammation was limited to is the result of endosmosis.

was that patients usually reported that there was no treatment had been given. return of the pain. I was led by my experience It will be readily understood, after reflection upon with cocaine in hay fever and coryza to expect a return of the pain. I was led by my experience It will be readily understood, after reflection upon with cocaine in hay fever and coryza to expect a return of the pain. I was led by my experience It will be readily understood, after reflection upon with cocaine in hay fever and coryza to expect a return of the pain.

tobacco smoke passed through a pledget of cotton irrelevant. By treating a carious tooth with cocaine ternally it is said to produce contraction. On ac-Cocaine is the last and best in the list, but the ex- count of its primary inhibitory action on blood-vessels, perience of those observers whose writings upon little hemorrhage occurs during an operation under cocaine I have read, differs in so far from mine as its effects, but its secondary dilative action permits that they seem to exclude the skin from its field of as free bleeding afterwards as though the remedy had utility, whereas I have often applied it to cutaneous not been employed. I have prescribed a two per surfaces with the happiest results. To be more ex- cent. cocaine ointment in severe cases of thrush with

There is still another particular in which my expethe middle ear, when inspection disclosed the drum rience appears to have been unique. When I have head in its integrity, the external meatus not being found it necessary to apply a counter-irritant over involved, and the tympanic pain was intense. When the mastoid process and below the auricle, I have I began using cocaine in these cases I employed a painted the parts with the essential oil of mustard, four per cent. solution of the hydrochlorate. I and allowed it to remain until the stage of vesication brought no other pain alleviator to my aid, but relied approached and the patient complained bitterly of entirely on the new drug for relief. My practice has pain. Then the cocaine solution was painted thorbeen to warm half a dozen drops of the solution and oughly over the reddened surface, and in a few mininstil into the ear, with the patient's head inclined to utes the burning pain ceased. Hence the question the opposite shoulder. He is requested to maintain arises: why may we not be able to control the pain this position for five minutes, and before the expira- of burned surfaces in the same way, and to relieve tion of that time the pain is invariably assuaged, the burning sensation of erysipelatous inflammation, Usually not more than one or two minutes elapse the itching and burning of eczema and kindred affecbefore I inquire if the pain has ceased, and rarely tions? I have frequently employed this remedy in has it happened that an affirmative answer was not painful inflammations of the middle ear when perfor-returned before the expiration of two minutes. If it ations of the membrana tympani have existed, but I be asked how it happens that pain produced by cannot say that the results were more signal than in pressure on the nerves in the middle ear is relieved those cases in which perforation had not occurred. by a local anæsthetic in the external ear, with a layer I recall a case in which I made a crucial test of the of skin and connective tissue interposed between the efficacy of this new anæsthetic. It has been my medicine and the diseased membrane, I reply that it practice, after removing polypi, to cauterize the sites of attachments with mono-chloracetic acid, to pre-In acute otitis media the tympanic cavity contains clude a reproduction of those growths. I have had mucus, if not muco-pus, by the time a patient seeks under treatment a case of chronic suppurative inflamthe aid of a physician. Thus we have given a mem- mation of both middle ears, of thirty years' duration. brane intervening between fluids of differing densities, In either ear was a large fibrous polypus; in one it and a form of molecular attraction allied to that of was so large as to extend beyond the opening of the and a form of molecular attraction affect to that of was so targe as to extend beyond the opening of the adhesion, with the result of a rapid flow of the thinner external meatus. The patient could hear nothing fluid through the interposed membrana tympani, to with the worse ear, and very imperfectly with the become equably diffused in the thicker fluid contents of the middle ear. This passage of the cocaine solution through the drum head is certainly a rapid one, ing ready a four per cent. solution of cocaine in a s for there is no room for doubt that it reaches the medicine dropper. When the pain from the acid paining nerves in less than two minutes after imping- reached its height the cocaine was dropped upon the ing upon the membrane. This rapidity of action burning tissue, and in a moment the pain-distorted does not appear so wonderful to one who makes a countenance was transformed into a happy expression practice of applying the remedy to mucous surfaces, of gratitude. When I operated on the other ear I for almost immediately upon its touching the nasal took the precaution of applying the cocaine thoroughly or faucial mucous membrane the benumbing effect before resorting to the cautery. The patient experiis realized. The result for which I was least prepared enced no pain, and was loth to believe that the same

the drum head into the middle ear, why the solution over the whole medical world. So deep an impresand not an ointment should be employed; but the sion has it made on suffering humanity that it has ointment of the same strength is better adapted to rapidly passed beyond the conservative control of the treatment of furuncles, for it will remain longer professional men. The laity grasps at anything that in contact with the parts. A powder which I employ promises to be a boon-a panacea for all aches and in treating the respiratory passages may be used to pains. An indiscriminate use results—an actual cover furuncles, or to insufflate the middle ear when abuse of a remedy as potent for evil as it is powerful a perforation of the drum head is present. The pow- for good. Already the cocaine habit has supplanted der consists of six (6) parts of cocaine hydrochlorate the morphine, alcohol or chloral habit. A step in the and ninety-four (94) parts of sugar of milk. This right direction has been taken by the profession of makes an impalpable powder which will readily pass. New York, by the preparation of a bill for the Legiswith a column of air impelled through a perforation lature, to place cocaine on the list of poisons to be in the drum head. The instrument which I devised sold only on physicians' prescriptions. for insufflating cavities with powder is especially useful in this instance. It consists of a stout bottle the midst of our own ranks, impaired health and three inches high and two inches in diameter, with a temporary insanity are attributed to the excessive soft rubber stopper. There are two perforations ex- use of this drug. So, while lauding its merits, let us tending vertically through the stopper, through which manifest a just appreciation of its dangers, and erect pass two vulcanite tubes. The latter pass downward lighthouses of caution with the victims who have through the stopper, but do not extend below its fallen prey to its direful power. But the history of under surface. Above the stopper the tubes are bent in a curve so that their extremities point at right angles to their vertical portions. To one of these worse is its misuse. A note of timely warning should extremities is attached a rubber tube and bulb. The bulb contains a valve of soft rubber at either end, to prevent a regurgitation of the column of air sent into his patients' wills, he should be a guardian of their the bottle of powder, and a consequent dusting of health and morals. the operator's clothing. By varying the force with which the bulb is compressed one may project a small or large quantity of the powder into the ear at pleasure.

There are other important effects of cocaine on mucous surfaces than that already mentioned. After it has been in contact with mucous membrane about two per cent, preparation quite satisfactory.

brane, there is a secondary effect which I have observed repeatedly, but which I have never seen tracted the lens. This method has to-day many mentioned by any other writer. If the parts have advocates, and its advocacy is founded upon sound which persists with more or less constancy for a day its dangers. or two after the applications have been discontinued, and the subsequent hyperaesthesia may be found to the cornea, or iritis, and in extreme cases of danger be augmented.

Cocaine poisoning has repeatedly occurred, and in medicine is like the history of men. The greater the man, the grosser the abuse. The better the drug, the be sounded, and the duty of the conscientious physician done, for although one cannot be the keeper of

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#### THE FLAP EXTRACTION OF SENILE CATARACT.

BY J. W. THOMPSON, M.D., OF ST. PAUL, MINNESOTA,

Of all the methods of dealing with senile cataract ten minutes, the mucous tissue presents a pale and that have at various times been detailed and advocontracted appearance, even if it were previously cated by different authors, the upper flap with an red, swelled and painful, as it is in thrush, coryza and iridectomy has been attended with more uniform and hay fever. This, together with the anæsthetic effect, favorable results than any other. The flap extracmay be taken advantage of in catheterism of patients tion was first practiced without the removal of a segin whom the inferior meatus is constricted, and lined ment of the iris. The results thus obtained were with a hypersensitive membrane. In those cases the superior to those by any of the other methods that powder is more conveniently applied than the solu- had been previously practiced. Statistics show that tion, and the six per cent. powder is susceptible of about ten per cent. of the cases thus treated were more general application than any other. In mild lost. Mooren, of Düsseldorf, in 1862 proposed the cases of pain and hyperesthesia I have found the following method: He first did a very free iridectomy, removing a large segment of the iris. Although the primary effect of cocaine on mucous then allowed the eye fully to recover, waiting pertissue is to cause paleness and shrinking of the mem- haps three or six months as the case might require, been thoroughly anæsthetized, and especially if they principles. Small insults can be tolerated better have been kept in that condition for a number of than great ones. It divides the operation into two hours by renewed applications of the remedy, there equal parts, and likewise divides the danger to the follows a considerable swelling of the membrane, organ. The flap extraction is not, however, without

There may be diffused or defined suppuration of there may be not only iritis and suppuration of the However, it must be conceded that cocaine has cornea in conjunction, but every structure of the ordemonstrated itself to be the most important local gan may be seized with an active form of inflammaamesthetic that medical science has yet discovered, tion which, with the unfavorable surroundings, would But a few months old, in a therapeutic sense, its terminate in suppuration and its entire destruction. brilliancy of achievement has flashed like a meteor Tridectomy is powerless to protect against the calam-

might exercise a good influence in the event of a from a bleeding iris. 2. The diminished tension threatened defined inflammation. It does, however, lessens the chances of rupturing the posterior cap-give a high degree of immunity from iritis. In every sule, which might allow the vitreous to come for-flap extraction accompanied with an iridectomy at wards into the chambers, a circumstance highly to be the same time, iritis is one of the chief dangers to be deprecated. anticipated. It is no exaggeration to say that ninetenths of the failures that occur in flap extraction by laws which give the greatest possible space for when the iridectomy is done at the same time, have the exit of the lense with the least possible division

their origin in iritis. ural lens support it is very much more susceptible the centre of the globe. As soon as the point has to acute inflammatory action. Hence, when the iri- fairly entered the chamber the handle of the knife is dectomy is done as a preliminary step the iris is left carried backwards until the blade is parallel with the with its natural lens support and is placed under the plane of the iris. In this position the point is shoved most favorable circumstances for recovery, and thus along till it passes the centre of the pupil. The hanthe danger from iritis is almost if not quite removed dle of the knife is now depressed till the point reaches when the subsequent flap is made for the removal of a position directly opposite the place of entrance, the lens. If the final operation be dextrously done where it is made to transfix the cornea. The blade the iris is but little disturbed. The upward flap with is still parallel to the plane of the iris, with its cutthe iridectomy, of course, in the same direction, is ting edge directed upwards. Thus the blade, being preferable to the downward direction for two rea- parallel with the plane of the iris and the edge disons: 1. The upper lid furnishes an excellent sup-rected upwards with a gentle sawing motion, is made port to the flap and holds the corneal edges in close to divide the cornea till its extreme upper segment coaptation, a circumstance both essential and desira- is reached. The edge is then turned upwards suffible for a rapid union of the parts. 2. The artificial ciently to bring the plane of the knife perpendicular pupil is covered by the upper lid, which not only ob- with the axis of the globe. In this direction divide scures the deformity but prevents that disagreeable the corneal substance till the conjunctiva is reached. dazzling, an unavoidable concomitant when the pupil From this point carry the edge between the conjuncis made in any other direction. This method, however, of treating senile cataract has been objected then cut through the conjunctiva. This makes a to by many on the ground that the patient is subject- little conjunctival flap which can be easily adjusted ed to the anxiety of two separate and distinct oper- after the removal of the lens. The great vitality ations. This objection is, I think, in a very great and vascularity of the conjunctiva render its union measure overcome since the introduction of the use so rapid that a good support is made to its corneal of cocaine as an anæsthetic in ophthalmic surgery.

When this agent is properly employed both the dectomy a short time since, and after completing the capsule of the lens I have, with very satisfactory operation the patient in a very complacent manner success in a large number of cases, adopted a very asked me if I would soon be ready to begin. When different method. I employ the point of a Gräfe the first operation has thus been demonstrated to cataract knife to split the upper segment of the capthe patient to be painless while consciousness is undisturbed, the subsequent one is in a very great dethis method the lens substance is shelled out of the gree robbed of its anxiety. But it has been urged capsule and the cortical substance is left behind a well recognized practice and I think a very good as readily absorbed, since the aqueous has free acone, to drop into the eye a solution of atropine of cess to it. sufficient strength to procure as wide a dilatation of the pupil as possible before operating. I have used at one time and another. Some advocate its loboth hundreds of times and have never been able to cation entirely in the sclerotic, others in the sclerodiscover that the one diminished the tension any corneal junction, while there are many who think it more than the other. Admitting for the sake of ar- should be made wholly in the cornea. The reason gument that cocaine is the more relaxing of the two, assigned for making it entirely in the selerotic is that I think that the slight inconvenience to the operator this tissue heals more readily than the cornea. Exis compensated in a twofold ratio: 1. It renders the perience has, however, proven this to be a fallacy. operation almost or quite bloodless, and thus pre- Admitting, for the sake of argument, that there vents that occasional and disagreeable occurrence, a is a slight difference in favor of the selerotic, it

ity of diffused suppuration of the cornea, while it chamber partially or perhaps wholly filled with blood

The method of making the flap has been regulated of the structures involved. In entering the anterior When the iris is wounded and left without its nat- chamber the point of the knife is directed towards edges.

A word in reference to lacerating the lens capoperations are rendered almost or quite painless. sule may at this place be apropos. Instead of using By way of illustration I had occasion to do an iri- the ordinary pricker or cystitome for incising the by some as a serious objection against the use of co- where it is out of harm's way. At least that part of caine in the cataract operation that it diminishes the it is left which would otherwise float about in the tension of the globe, thereby increasing the difficulty of chamber and come in contact with the iris and perthe operation. This is another hair-splitting objection. haps ciliary bodies, and thus act like a foreign sub-Can any one tell why it should lessen the tension any stance and be a dangerous source of irritation. more than atropine? Is it a fact that it does? It is When it is left incarcerated in the capsule it is equally

The location of the flap has been much discussed

therefore, for making it wholly in the cornea is two-port to the entire surface of the globe. tissue unites more readily than the sclerotic.

able in giving a prognosis as to the result to be ob- been entirely discarded. It washes away the corneal of light and shade, and atropine. The latter conditreatment, would extend far beyond the limits asdeprives it of its normal elasticity and power to resist than energetic. inflammatory action. Its vitality is lowered, and consequently its power to resist mechanical injury dimmished. Therefore an active pupil can in truth be said to be a favorable prognostic symptom. Again, the flap operation should not be attempted when there is the slightest evidence of conjunctivitis. Cure this first. Neither the patient nor the physician can afford to disregard this one, little, important point. The drainage apparatus of the eye should also be carefully inspected.

collapse of the capsule is another favorable indicasiderations that should govern one in giving an opinion methodically cared for. as to the probable results of a flap extraction.

there is any prevailing epidemic, such as cholera or known of one family before in which typhoid fever any of the exanthemata. The depressing influences originated and went through the whole family, I was of these upon the mind of the patient disarms, as it at a loss to account for this abrupt appearance, and were, the physical forces, and thus, in the unguarded persistent protraction. The number of cases thus moments of nature, golden opportunities are thrown far have been twenty-six, the ages ranging from 11 to away and forever lost. It is so unlike many other 67 years. These have all been typical, well-marked operations, since the slightest error may turn the tide cases, though many others in the different families in of success and leave the patient in total darkness.

The general condition of the patient's health should premonitory symptoms, but no further development. also receive the most careful attention. In short, the present practice is to close the eye, cover it with a circular piece of soft linen, and then fill up the orbital of the fill up the orbital orb

would be unquestionably more than overbalanced cavity with little pieces of carbolized cotton, equally by going as near the ciliary region as is necessary to distributed. Before applying the bandage, place a make the flap wholly in this tissue. This is the dan- few pieces of the cotton around the orbit in such a gerous region of the eye, and the wider one steers of manner as to prevent too much pressure directly upon it in any operation the less is the result jeopardized. the eyeball. I prefer a flannel roller, which should The sclero-corneal flap is, in a diminished degree, be passed around the head three or four times in such however, open to the same objections. The reason, a manner as to cover the eye and give an equal sup-

fold: 1. It is farther removed from the ciliary region, The other eye should be covered as well, in order to and 2. The experience of such men as the late Mr. insure perfect rest to its fellow. The bandage and cot-Critchett, of London, confirms the assertion that this ton should be changed every twenty-four hours. If all sue unites more readily than the sclerotic.

There are some objective symptoms that are valuate of applying cold water dressing has tained by the flap extraction. The first of these is cementum and embarrasses the reparative process. the condition of the pupil: whether it be active or There are numerous emergencies that may arise, but sluggish, whether it respond promptly to the influence to detail them here, with the various methods of tion is the more favorable one, from the fact that the signed to this paper. Before dismissing the subject, stiff, thick, sluggish iris is predisposed to iritis. The however, permit me to ask of my readers for any inmuscle is partially deprived of its animal matter, its novations on the established order of things contained fibres are infiltrated with disorganized material which herein, a resistance that loves to be reasonable rather

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# SOME PECULIAR CASES OF EPIDEMIC FEVER OCCURRING IN TOULON, ILLINOIS.1

BY W. T. HALL, M.D., OF TOULON, ILLINOIS.

The purpose of this paper is to give a history of a peculiar epidemic which recently occurred in Toulon, When the extraction of the lens is completed, a Stark Co., Illinois. This history may, however, be prefaced by saying that Toulon is well watered, very tion. The reason for this is twofold. I. It is an few of the wells being influenced by surface water, evidence that the posterior capsule is intact, or at and no cases of the epidemic occurred in the part of least that the vitreous has not been disturbed; and the town where the wells are so influenced. The 2. That the cornea is in a healthy condition, as evi- natural drainage is far superior to that of most towns, denced by its pliability. These are some of the con- and the sewerage has been carefully, scientifically and

Having lived in the town for forty years, having Again, an extraction should not be done when known all the epidemics of the town, and having only which the disease has appeared have had some of the

Nineteen of these cases came under my care, and more carefully every detail, be it ever so small, is in speaking of this epidemic I will only describe considered, the greater will be the chances of success. those under my own personal observation. The first As the whole is composed of parts, so little ills com-bine to establish a morbid condition which may defeat the desired result. The experience of the past few writing (November 9). The premonitory symptoms years has also wrought some very valuable changes for the first ten days are those of typhoid fever, with in the after-treatment of flap extraction. When the the exception of more lassitude and more catarrhal edges of the flap are brought into close contact with trouble. On the eleventh day in thirteen of these each other and all coagula carefully removed, the cases, and in the remainder on the twelfth day, de-

veloped the trouble which was to be predominant the zigzag found in typhoid fever. In seventeen cases through the course of illness. Four cases were pro- it ranged from 100° to 100.5° F., in one 104°, and in nounced typhoid with well developed catarrhal fever one 105°. So the antipyretic treatment with quinia as a complication. The only symptom lacking in was indicated in only two cases. The temperature these cases was the typhoid eruption, and that was in the seventeen cases did not vary half a degree at lacking in all the cases. One of the peculiarities of any time for twenty-five days. this epidemic has been that no two cases in the same Syncope occurred in three cases; in one on the family have been exactly alike. For instance, I have seventeenth, one on the fourteenth, and one on the treated three cases in two families. In the one, the twenty-second day, in one of the cases lasting four-'typhoid element was predominant, in the second the teen hours. malarial, and in the third the catarrhal. The ringing in the ears was present in all, was the first symptom ond to the third day. In the most of them it was complained of and lasted through the whole course, mild and subsided after two or three days. In two increasing in severity, so that by the seventh day it it was severe and came on every few hours for twenbecame so pronounced that it was almost impossible ty-three days. to make the patients understand anything said to them. The tongue in two cases was red and glossy; in all the cases, but caused by far the most pain, and in three brown; in the remainder white and flabby, were the hardest to control. Some of the cases In fourteen tremulous, and in seven pointed.

of the cases, this commencing on the fifth or sixth three children that she suffered more each time in day, and lasting from twenty to twenty-five days. passing water than she had done in labor. The ejected matter was bilious all through the course. The urine was scanty, highly colored, and very The liver was engorged, and tender over the right offensive; frequently not over a teaspoonful after an lobe, in every case forming one of the first com-hour or two of hard straining. It was in the two plaints, and lasting to its termination. Haemorrhage cases of convulsions I have referred to as being of the bowels occurred in four cases very severely; caused by reflex action, as both cases went into conin one case mild. It occurred in two cases on the vulsions while passing water.

one six, in one three, and in one one day. The last passage in all the cases resembled beef's liver, odor with which I am acquainted, but just as proto which I can compare it; there were no clots, but fact, by the second day, I could tell by the smell a congealed mass. There was hæmaturia in three those coming down with this trouble. The night cases, coming on from the eleventh to the thirteenth sweats were severe in only two cases, but occurred day, but it never occurred in a patient who had in eleven. I omitted to state that the catarrhal affechæmorrhage from the bowels.

both sides, in five on one side. The enlargement on the seventeenth day. The eighteen cases that commenced on the fifteenth day in all the cases save recovered were bedfast from twenty-three to sixty one, and in that on the eighteenth day. Abscess days. formed in but one case, and I opened that on the fiftieth day, no pus being present until that time.

the fourteenth and one on the seventeenth day. In many of the symptoms of a bilious attack, I gave two I attributed them to reflex action from the blad-them calomel and jalap in powder, 10 grains each, der, which I shall describe farther on, and in one to followed in six hours by a Seidlitz powder. But I hereditary tendency to chorea. In the two of reflex soon found that I had cases that were going to be action recovery took place; in the choreic, death was protracted, and that I had to guard well my patients' the result. One had two convulsions, one five, and strength, and that persuasion rather than coercion the fatal case nine.

Epistaxis took place in all the cases from the sec-

The catarrhal complications were not only present would be upon the bed-pan six hours out of the The stomach was exceeeingly irritable in sixteen twenty-four, and one of them told me who had had

the twenty-ninth. In all of these cases the red tongue and tenderness in the iliac region were absent.

The hæmorrhage lasted in one case four days, in ious, and the most offensive I ever experienced.

both in color and consistency, more than anything nounced as is that of measles and small-pox. In tion extended along the whole track of the nose, the The parotid gland was enlarged in six cases on Eustachian tubes, and the ear. The fatal case died

These, I believe, are all the points of interest, save a few words as to the treatment. The first patients There were convulsions in three cases; in two on presenting themselves with a brown dirty tongue, and should be followed. I found that 2 grains of calomel. There was delirium in four cases, it being the de- with 3 grains of bicarbonate of soda every second lirium of typhus rather than of typhoid fever. The night, was preferable, with 5 grain doses of bismuth remainder would answer the questions coherently, yet through the day. I gave quinine in from 5 to 10upon recovery, the twenty-five or thirty days' period grain doses every two hours through the whole course of illness was a perfect blank. There was no mutter of the disease, except in the two cases in which I ing, no wandering except in the four cases mentioned, wanted the antipyretic effect; in those I gave to one and they were of that wild uncontrollable type, with 25 and the other 40 grains, in the evening, for four the ringing metallic voice found in the delirium of days, at which time the temperature came down to 101.5 F. and remained so until recovery. Instead The temperature was an even one, with nothing of of aural symptoms from the large doses of quinine,

would produce that trouble even in 5-drop doses. found that balsam of copaiba and cubebs in capsules in liquid form.

els, Dover's powder and camphor for the delirium, atropia for the sweating, bromide of potassium and bromide of ammonium for the convulsions, 10-grain doses of the potash, and 5 of the ammonium, every half-hour until the convulsive movements ceased. For the syncope I gave the carbonate of ammonia and tincture of digitalis. These drugs, of course, were given as indicated, while the quinia was never omitted until convalescence was fully established, and was then given for a week or more at lengthened intervals.

### COCAINE IN HAY FEVER.

BY E. FLETCHER INGALS, M.D.,

PROFESSOR OF LARYNGOLOGY IN RUSH MEDICAL COLLEGE, AND PROFESSOR OF DISEASES OF THE THROAT AND CHEST IN THE WOMAN'S MEDICAL COLLEGE, CHICAGO,

In the issue of THE JOURNAL for February 6 appeared the report of a lecture on the above topic by Dr. S. S. Bishop, in which cocaine is highly recomcurative.

cluded from other causes.

the hearing became better, convincing me that a It is true, also, that in his own case two applications the hearing became better, convincing the that a malarial poison was at the bottom of all these peculor of the galvano-cautery were followed by asthma, and liar phenomena, else there would not be such a tolerance for the drug. Turpentine, so useful when the tongue is red and glossy, was not admissible at all, for when the nasal mucous membrane is sensitive as the only cases to which I gave it had strangury in enough to cause the disease there is as much of it from six to nine hours after administering it. It involved as can be safely cauterized in fifteen or twenty sittings.

We must remember that in both nasal cavities there gave the only relief for the bladder trouble. I gave is an area of mucous membrane of not less than sixthem in capsules, as the stomach would reject them teen square inches, and sometimes half of this is involved; at the same time not more than one-fourth or I gave ergotine for the hemorrhage from the bow- at most one-half a square inch of surface should be cauterized at any sitting, and the last amount will be well borne only in exceptional cases.

In conclusion I wish to reiterate my belief in the value of cocaine for the relief of hay fever, in which disease I think I was first to use it; but I wish also to direct attention to the ill effects which may follow its protracted use, in order that physicians may caution their patients against using more than is absolutely necessary.

I wish, also, to assure the profession that they have in the surgical treatment a cure for the disease which may be relied on in at least nine cases out of ten.

64 State St., Chicago, Feb. 9, 1886.

# MEDICAL PROGRESS.

DIGESTION: ITS PHYSIOLOGY AND PATHOLOGY.mended for the relief of hay fever. The writer also Professor Ewald and Dr. J. Boas publish (Virmentions the fact that the drug sometimes causes chow's Archiv, Bd. ci, Heft 2) the results of a number unpleasant effects and that it cannot be considered of valuable experiments they have made on inmates of the Woman's Infirmary in reference to the physi-In addition to what he has said of it I wish to call ology and pathology of the digestive act. One of attention to an effect which I have frequently ob- the inmates was especially suited for this purpose. served, viz.: Continued use of the drug renders it She was a young woman with a peculiar neurosis of necessary for the patient to take more and more of the stomach, of an hysterical nature, in whom for the it for relief, and finally the constant stimulation of past six years vomiting had occurred spontaneously the sympathetic nerves in the nasal tract causes paralmost immediately on the ingestion of fluids, and esis, with resulting swelling of the turbinated bodies, from two to three hours after partaking of a solid which may at length permanently obstruct the naris.

Dr. Bishop states that no cure for the affection has health good, and she increased in weight while in the been heretofore discovered, but in this I am confident hospital. Repeated examinations showed the prohe has made a mistake. The surgical treatment cess of digestion to be normal. Inspection of the which he says is "too recent to have afforded per-contents of the stomach when she was fasting showed manent results" is as certainly entitled to the dis- (1) that they were constantly free from aliment: (2) tinction of being a curative procedure as quinine is that as a rule the reaction was neutral, in a few cases entitled to that of being curative for intermittent slightly acid; (3) that neither free hydrochloric acid fever. It has now been in use for four years, and nor lactic acid was present; (4) that peptone was the cases thoroughly treated by it at first are still free constantly absent. This is in direct contradiction from the disease. I have treated many patients in to what Schultz has recently stated-that the stomach, this way, and every one of them in whom the treat-fasting, has its contents strongly acid. To meet the ment was complete escaped the attack last summer. objection that the act of vomiting might influence the The writer suggests that the treatment may cause chemical changes, experiments with the siphon stomspasmodic asthma. In this I fully agree with him, as anything which causes closure of the naris may in whom there were no disturbances of digestion. These gave results identical with those in the case of treated by this method, just as it is the exception for Seeger—the patient subject to vomiting. By employpeople to have asthma in whom the nares are oc- ing certain reagents, the observers were enabled to separate lactic acid from hydrochloric acid, and de-

stomach. On giving Seeger 60 grains of white bread, with this was noticed in the patient Seeger. During it was found that in ten minutes afterward the con- menstruation the period of digestion was prolonged, tents of the stomach gave a slight lactic-acid reaction. and so was that of the lactic acid. Delayed diges-The reaction increased in intensity for thirty or forty tion would, therefore, go hand in hand with the perminutes, after which the lactic acid began to disappear sistence of that acid in the stomach. Therapeutically, and free hydrochloric acid took its place. As the the authors would only say this much in this paper: latter increased, the lactic acid diminished, until a that the results of their experiments place the selected a stage was reached when it completely vanished. diet-tables in a new light. All those articles of food They would therefore divide the process of digestion considered difficult of digestion are known to be great into three stages—the first, in which lactic acid is lactic acid producers. The addition of hydrochloric present but no hydrochloric acid; the second, or in- acid not only supplies the essential acid of digestion termediate, in which the lactic acid reaches its acme to the stomach, but causes the lactic acid to disapand hydrochloric acid first appears; the third, in pear, thus removing a factor of delayed or prolonged which the lactic acid rapidly disappears while the digestion. The authors are still continuing their inhydrochloric acid increases in quantity. On giving vestigations, and promise to make known the further the patient pieces of thin sliced meat, the same three results in a future paper. - New York Medical stages were observed, but the duration of each was Journal, February 6, 1886. longer than when white bread was given. The first occupied fifty minutes; digestion as yet had made but little progress, the meat fragments were still of a fleshy Sokoloff, soliciting the degree of "magister of veterred color, and the transverse straiæ were quite dis- inary sciences." selected for his inaugural work the tinct. The intermediate stage extended to ninety study of the minute structure of the pancreas during minutes after the meat had been eaten. Even yet its rest and action (St. Petersburg Inaugural Disserthe digestion had not made much progress, the retation, 1883, pp. 48; and the Arkhiv Veterinarnykh agents showing the presence of sarco-lactic acid and Vauk, Dec. 1883). The structure of the quiescent a slight amount of hydrochloric acid. In the third gland was examined in dogs, cats, rabbits, horses, stage (ninety to a hundred and twenty minutes) no cows, sheep and pigs. To study the alterations taksarco-lactic or lactic acid could be detected, while ing place in the gland during its physiological action, free hydrochloric acid existed in abundance. With he killed dogs, cats and rabbits at certain periods (4, a fish diet exactly similar results were obtained 5, 7, 10, 15, 20, 40 hours) after the ingestion of food Very convincing evidence that the lactic acid is a or after a subcutaneous injection of pilocarpine. product of fermentation of the food taken, and not specimens were hardened in chromic acid, spirit of a secretion from the stomach, was afforded by the wine, tincture of iodine, osmic acid, muriate of gold, experiments of giving the patient egg albumen alone. and Müller's fluid, and then stained with hæmotoxylin The examination of the stomach contents did not or picrocarmine. The results of these investigations show the presence of lactic acid in any of the stages. (carried out in Professor F. N. Zavarykin's laboratory) Quite different were the results when potatoes, which are summed up by the author as follows: are a great producer of this acid, were given. Lactic 1. The changes in the structure of the pancreas acid was detected as early as ten minutes after eating, during its action, show that the process which takes and persisted for a long time. To fully comprehend place in it is identical with that observed in other the strength of the position they take in reference to glands of similar anatomical structure and function the rôle played by lactic acid in digestion, another (salivary, pepsine glands, etc.). of their experiments must be related. They allowed the patient to masticate 30 grammes of thin sliced become granular and increase in their bulk ("as if meat and 20 grammes of white bread. These were swell"), their homogeneous zone being considerably divided into five equal portions; one portion of each diminished, or disappearing altogether. was treated with a 0.3 per cent, solution of hydrochloric acid. They were all put into the incubation action, the cells in which the homogeneous zone has oven for three hours at a temperature of 40° C., then disappeared, or is present only in the shape of an left for seventeen hours at the temperature of the extremely narrow marginal strip, undergo disintegraroom. There were thus four portions: 1, 15 grammes tion, while the remaining cells show a diminution of of thin sliced meat; 2, 15 grammes of thin sliced meat the granular, and an increase of the homogeneous plus 10 c. cm. of a 0.3 per cent. solution of hydro- zone. chloric acid; 3, 10 grammes of white bread; 4, 10 grammes of white bread plus 10 c. cm. of the 0.3 per veolus there appear small homogeneous wedge-shaped cent. solution of hydrochloric acid. These, on being cells, which are gradually lodged between the former tested, gave the following results: 1, strong lactic elements, and which replace the secretory cells deacid reaction, no peptones, no sugar; 2. also strong stroyed. [They are identical with Podvysotzky's lactic acid reaction and slight peptone reaction; "cuneiform cells," though viewed by Sokoloff in a 3. strong lactic acid reaction; 4. no lactic acid different light.] between the two acids. If the digestive act is inter- in the interstitial tissue of the gland. fered with in any way, the lactic acid stage is length
6. These round cells (lencocytes), probably, serve

tect their presence respectively in the contents of the ened in duration. An interesting fact in connection

THE STRUCTURE OF THE PANCREAS.—MR. VASILY

2. During its physiological rest, the secretory cells

4. At the same time, on the periphery of the al-

as a source from which the homogeneous cells in the sequel-even after some years' interval-of tubercular alveoli are originated.

interstitial tissue. So far Mr. Sokoloff.

Heidenhain).

first proved by Gaule).

be) observed. Sokoloff's "homogeneous cells" are, probably, best explained by some defective methods of examination.

that tuberculosis of the urinary bladder is mostly a of the blood. - British Medical Journal, Jan. 9, 1886.

epididymitis. Returning to the cases of genital 7. Therefore, the destroyed secretory cells, to all tuberculosis, it was stated that in thirty-one out of probability, are replaced by new ones, which are de-thirty-five the lungs were more or less involved, but veloped from leucocytes wandering in the glandular whether primarily or secondarily could not be deter-There were three cases of acute miliary mined. In a preliminary note in the I ratch, No. 21, 1883, tuberculosis apparently due to caseous deposits in p. 323, Dr. Klavdia Ulezko opposes him from the the genital organs. The majority of the patients beginning to the end of the matter, pointing to the were between the ages of 25 and 50; but the list of results of her own investigations conducted in the sixty included two children aged 2 and 7 years relaboratory, and under the guidance, of Professor M. spectively, and twelve cases between the ages of 50 D. Lavdovsky. Her statements may be given thus: and 80. The duration of the disease was most varia-1. No destruction of the secretory cells ever takes ble, in some cases lasting for years, in others only a place during the physiological action of the pancreas few months. The clinical features were described, (as well as of the salivary glands, as proved by and the differential diagnosis detailed. Instances Professor Laydovsky in opposition to Professor were given of retention of sexual power even in bilateral disease, and in two cases of unilateral dis-2. Hence, generally, there is no occasion to look lease healthy children were procreated. No evidence about for any substitutes for the pancreatic secretory of transmission of the disease to the wife was found, cells in relation to the regeneration of the latter; and Dr. Simmonds confirmed the opinion that such this would be the more superfluous, as the secretory transmission did not occur. As to etiology, the hiscells are capable of proliferation themselves (as was tories of twenty-six cases showed inherited tendency in thirteen; eleven had suffered from gonorrhea, 3. No grounds whatever may be adduced in sup-four of which were associated with epididymitis; and port of Sokoloff's views concerning the regeneration in four there was a history of traumatism; and it was of the pancreatic cells from leucocytes. The active concluded that traumatism, gonorrheal or other incondition of the gland does not stand in any connectifiammation, may evoke genital tuberculosis in one tion with migration of leucocytes. The latter—as who is already the subject of tuberculosis or is herefar as the normal gland is concerned—are present ditarily disposed to it. The prognosis in unfavorable, only in too scanty numbers to be taken into any ac- but castration may be performed where there is no count. No transitory forms or links between leuco- evidence of involvement of the pelvic organs, and only cytes and the secretory cells are (or could possibly slight changes in the lungs.—The Lancet, Jan. 23, 1886.

Cobra-Poison. — A paper by Dr. R. Norris WOLFENDEN, giving the results of a very thorough 4. Podvysotzky's "cuneiform cells" have no rela- and careful chemical examination of the poison of the tion whatever to leucocytes, since they are nothing but Indian cobra (Naja Tripudians), was read at the artificial products.—London Med. Rec., Jan. 15, 1886. Royal Society on December 17. Dr. Wolfenden appears to have shown conclusively that the poisonous GENITAL TUBERCULOSIS.—The interesting subject properties of the venom are due to its albuminous of genito-urinary tuberculosis was dealt with by DR. constituents, and that it does not contain any alka-SIMMONDS at a meeting of the Medical Society of loidal body nor any poisonous acid. The toxic Hamburg (Deutsche med. Woch., 1886, No. 1). Of properties of the venom are lost when the albuminsixty cases of tuberculosis of the male generative ous bodies are completely removed by processes well organs which he had observed, thirty-five had been known to chemists, or are destroyed by the action of examined after death, and amongst these latter, the permanganate of potash, which oxidizes the albuminepididymis was affected in thirty-one cases, the vesi-cule in twenty-nine, the prostate in twenty-six, and the testicle in sixteen—the vesiculæ and prostate Two of them, globulin, which is in largest quantity, being sometimes the starting-point of the disease. In and syntonin, act upon the respiratory centre; while cases of bilateral tuberculosis of the testicle, it is gen-the third, serum-albumen, which exist only in very erally believed that the one organ has been infected small quantities, probably produces paralysis of the by the other through the vas deferens and the pros- motor centres. Whether the poisonous properties of tate, but in two out of five such cases the intra-pelvic these albumens are due to some peculiarity of their organs were entirely free from the disease, which constitution, or whether some hypothetical poison is could have been eradicated by a complete castration. linked with albumens of ordinary constitution, has As to genito-urinary tuberculosis, it was stated that not been ascertained; but the possibility of the prothe origin of the disease was more frequently in the teids of the venom being themselves poisonous is genital than the prinary tract. Of fourteen such rendered more probable by the observations of cases, the kidneys were involved in only nine, the Schmidt-Mulheim and Albertoni, who have shown that bladder in thirteen, the vesiculæ in thirteen, the prostate in twelve, and the epididymis in twelve; and duce poisonous effects, causing a remarkable fall in clinical evidence was adduced in support of the view blood-pressure, and destroying the coagulating power

THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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### SATURDAY, FEBRUARY 20, 1886.

### RE-INFUSION OF BLOOD AFTER AMPUTATION.

In the British Medical Journal, of January 30, MR. JOHN DUNCAN, of Edinburgh, has an article on "Re-infusion of Blood after Primary and other Am- confidence as to its safety and value. The idea ocputations." In this paper he gives an account of a cured to him, he says, from a considerable experience had scarcely any effect, and it seemed impossible that apparently moribund, rallied quickly and recovered. he could survive an amputation. There seemed to The solution of phosphate of soda used in one the operation might be utilised.

rect within a drachm, or at most two." The patient was put to bed, in front of a fire, and teaspoonfuls of weak brandy and water were given frequently. By the time that he was in bed the pulse had become very perceptible, steadily improved during the night, and the man recovered.

It is apparent that the dominant idea in this procedure is to save and utilise the blood, which would otherwise be lost, flowing from the amputated limb. The loss or saving of a few ounces of blood in a case of collapse may make all the difference of death or life. "No doubt," says Mr. Duncan, "a simple saline fluid may for a time supply the means of working to the empty heart and vessels; but, in my experience, the benefit is only temporary-for one reason, because it is essential that the blood-forming organs should act; and they require suitable nourishment, like every other part of the frame." We know how difficult it is to empty shattered limbs of blood, and a small or large quantity may always be caught at the time of incision and when the arteries are tied. Mr. Duncan has now carried out his method in a sufficient number of cases to permit him to speak with case of railway injury, in which the left leg had been in transfusing blood from one person to another, and crushed, amputation being required at the lower third seeing how imperfect and sometimes dangerous are of the thigh. The man had lost a large amount of the ordinary methods of transfusion. Mr. Duncan blood on account of a tourniquet not being screwed relates an interesting case in which his house-surgeon, up tight enough. Eight hours after the injury the Dr. Carmichael had himself bled to six ounces, and patient was pallid and collapsed, with a quick, irregulated the blood, mixed with the phosphate of soda soular, and fluttering pulse, when it was perceptible. lution, in a case of intra pleural hæmorrhage after Alcohol, injection of ether, and elevation of the limbs resection of a rib for empyema. The patient, though

be some hope in intravenous injection, however, and case was of 5 per cent., and one part of this was it occurred to Mr. Duncan that the blood lost during added to three parts of blood; but our author thinks that a slightly larger proportion is advisable, and has The patient was aniesthetized with chloroform, increased it in amputation cases. In one case the followed by ether (a method which, if the reader will soda solution was unintentionally made of double pardon the digression, certainly has very great ad-strength, and the mixture remaining after re-infusion vantages in many cases). The limb was rapidly re- was not coagulated at the end of half an hour. (The moved, and the blood which fell from it (about three soda solution, it need scarcely be said, is used to preounces) was caught in a dish containing a solution of vent coagulation of the blood). For the introduction phosphate of soda. "After the arteries had been into the vein of the receiver Mr. Duncan uses a short tied, it was difficult to say for a time whether the paglass tube, of the size of a No. 6 catheter, having a tient was dead or alive; but I proceeded to inject pen-shaped point. "To its outer end, made slightly the blood and phosphate of soda, mingled with dis-bulbous, about two inches of India-rubber tubing is tilled water in the last syringeful to increase the quan- attached. A simple glass syringe, holding four tity. In all, about eight ounces were thrown into ounces, whose nozzle fits the tubing, is perfectly efthe femoral vein on the face of the stump. The fective." The temperature is kept up by surrounding quantities are not exact, because the graduated dish it (the tube or syringe?) with boric lint, wrung out of was necessarily flat to catch the blood, but are cor- hot water. The phosphate of soda solution is kept being used.

face of the stump, the glass point is inserted, and a the blood which has been lost in these cases, there is catgut ligature put round it. (The ligature is used certainly no reason why the blood should not be obto hold the glass point in the vein, and prevent tained from another person. Of course the amount escape of blood). While the process of ligaturing of blood lost in severe cases of post-partum hæmorthe arteries is going on, the blood is caught by one rhage is so large that the patient might die before the assistant, who adds the soda solution as required, mixture could be properly made unless every preparand is slowly injected by another. There is no time ation had been made. Still, this method may be wasted, and the amount put into the circulation is carried out as quickly as some of the procedures that otherwise have lost, plus what amount of saline so- for the treatment of collapse after post-partum lution the surgeon may think right and appropriate hæmorrhage it must be regarded as more safe than to the case." This process of reinjecting the patient's the intra-venous injection of milk, and very much own blood, very probably says Mr. Duncan, is in- more quickly performed. There is also a question compatible with the use of spray or irrigation during whether it is not more to be recommended in cholera

phate of soda, and injection by means of the appa- journals during the past two years. ratus described, has been used by Mr. Duncan in several cases of pernicious anæmia. While we may THE RELATION OF CHOREA MINOR TO ACUTE justly object to applying the term re-infusion in such cases, the blood being obtained from another person, we must recommend the method for these cases in ation is finished, and the wound is stitched up.

In cases of anæmia care must be taken to finish the injection before the blood coagulates, as the sodal carditis may be discovered post mortem, even when solution will only prevent coagulation for a certain the most thorough physical examination intra vitam length of time; and, on the other hand, the injection has failed to detect its existence, Prior thinks this may be made too rapidly for the patient. Obviously case may be not unreasonably classified among those neither of these errors can be well committed in em- in which there is a combination of the three diseases

in a graduated glass vessel floating in warm water, and Mr. Duncan unintentionally doubled the proportion of into this the blood is received. The glass is purified soda solution in one case, and found that the blood by prolonged immersion in a solution of bichloride remained fluid for half an hour after being mixed with of mercury, and washed with aseptic water after the soda, there seems to be no objection to making removal from the antiseptic solution, and before the proportion of soda solution greater than one part to three. Could not this method be employed in When the operation is performed after an amputa- cases of post-partum hæmorrhage? While there are tion, "the most convenient vein is selected on the certain objections that may be raised to re-injecting precisely proportioned to what the patient would are recommended and used in these cases. Certainly collapse than the intra-venous injection of salt solu-The method of preventing coagulation by phos- tions, which has been so much discussed in the foreign

# ARTICULAR RHEUMATISM AND ENDOCARDITIS.

The latest contribution to this vexed question is in preference to the ordinary methods of transfusion of the Berliner Klinische Wochenschrift, No. 2, 1886, blood. In such cases a vein in the arm of the pa- from the pen of Dr. E. Prior, Privat Docent at Bonn. tient is exposed, and under it a double thread of He gives the result of the painstaking investigation catgut is passed. Blood is then drawn from the donor of 92 cases of chorea minor with special reference to into the dish containing the phosphate of soda, and its connection with endocarditis and acute articular the two are gently mixed by means of a glass rod. rheumatism. In 87 out of the 92 cases the chorea An assistant fills the syringe while the operator opens was not complicated by any disease of the heart, nor the exposed vein of the patient, the lower thread of could there be discovered the slightest trace or hiscatgut being gently pulled upon to prevent hemor-tory of previous attacks of rheumatism. In one case, rhage. The tube is now inserted, the upper thread that of a girl 10 years of age, the patient was said to tied around it with one knot, the lower one being have had some affection of the heart several months secured and cut off short. The blood is then slowly before, but reliable facts concerning it could not be injected, "the India-rubber tubing being pinched obtained. On the other hand, there was unmistakwhen the syringe required to be refilled." The upper able evidence of an attack of rheumatic arthritis in piece of catgut is tied and cut short when the oper- the fingers of the right hand two weeks prior to the outbreak of the choreic manifestations.

Since experience teaches that evidence of endoploying the method after an amputation. Inasmuch as in question. In four other cases there was valvular

disease of long standing. In three of them mitral Dr. Prior's paper cannot be said to contribute any insufficiency had been diagnosticated years previ-facts particularly new or original. It is in accordously, but there could not be ascertained any history ance with the position pretty generally taken by his of rheumatism. The fourth patient, a girl of 19, had countrymen, which is conservative. Germain Sée suffered with inflammation and swelling of the knee- and Roger are ardent defenders of the rheumatic joint several years before. Although a definite con- origin of chorea, or rather, of the identity of the two nection between the valvular lesion and the chorea diseases. Their figures show a strikingly large proought not to be asserted in these cases without fur-portion of choreic cases complicated with rheumatther proof, Prior yet inclines to the opinion that the ism, and Roger goes so far as to declare that in heart-disease may have borne some etiological rela- every instance of St. Vitus's dance it has been pretion to the St. Vitus's dance. It is not impossible ceded, accompanied or followed by rheumatic sympthat a fresh endocarditis may have been lighted up at toms. There is considerable lack of uniformity on the time of the commencement of the chorea. It the part of German observers as regards the etiology appears, therefore, that in but 5 out of 92 cases, that of the disorder, but on the whole they are opposed is 5.4 per cent., can there be any suspicion of a con- to all the conclusions of their French neighbors. Of nection between the chorea and endocarditis and 252 choreic patients observed by Steiner, of Prague, rheumatism; while in 94.6 per cent. of the total only 4 gave a history of rheumatism. The English number, the chorea was absolutely free from these are also somewhat divided, but on the whole occupy complications.

statistics, in Prior's opinion, in their opposition to between the two diseases is curious. In 1846 Hughes Rogers's theory, that chorea and rheumatism are dif-published a report of 108 cases, of which but 14 gave ferent expressions of one and the same pathological evidence of rheumatism together with the chorea. law. It is notorious that St. Vitus's dance is a dis- In 1856 he published 209 other cases, 104 of which ease of childhood by preference, whereas rheumatism, were carefully examined. In all but 15 of these as a rule, attacks adults between the ages of 20 and either rheumatism or rheumatic endocarditis existed. 35 years. Moreover, chorea occurs most frequently It is probable that the French and English observers among girls, while rheumatism and endocarditis re- have been somewhat misled in their conclusions by sulting from rheumatism are most frequently observed the great frequency with which rheumatism occurs in in males. Furthermore, in those cases of chorea in their climates. Diversity of opinion likewise exists which the disorder seems to have its origin in imita- in this country. Jacobi is reported to agree with tion of choreic companions, and "epidemic-like, Roger, while J. Lewis Smith states that probably the invades whole schools," it certainly would be absurd majority of American observers incline to the conto claim that all of its victims have been subjects of servative judgment of the Germans. rheumatism or rheumatic endocarditis.

ion that any etiological relation existing between these ceived, it does not appear to be any nearer solution diseases and chorea, in so constant and definite a man- now than years ago. There is ample opportunity for ner as to form a law, does not exist. There cannot be the clinical study of the disease, but it so seldom in choreic individuals some diathesis, as suggested by proves fatal, that the opportunity for a post mortem pression sometimes in rheumatism, at other times in we fear the etiology of chorea minor will continue for St. Vitus's dance. It is not unlikely, he thinks, that years to come to be as great a riddle as at present. in some instances the disease may result from reflex irritation of the cardiac distribution of the phrenic nerve, as by a greatly enlarged heart. This is in accord with the theory promulgated by Bright. In other cases Prior believes it not improbable that emboli may occasion choreic manifestations, as maintained by Kirkes, Tuckwell and others. He does not, howtribute the occurrence of chorea to capillary embolism been advocating a thorough and protracted study of in the immediate vicinity of the corpora striata.

very much the same ground as the French. The There are other facts, also, which agree with his contradictoriness of statistics concerning the relation

The subject is an interesting and highly important On the whole, therefore, Prior inclines to the opin- one. Notwithstanding the investigation it has re-Begbie, Watson, Branson and others, which finds ex- investigation of its morbid anatomy is limited. Hence

> EDUCATION FOR THE WORK OF LIFE-"THE MAIN QUESTION IS, WHAT SHALL A BOY STUDY UNTIL HE IS CAPABLE OF DE-TERMINING WHAT PROFESSION TO CHOOSE?"

This question forms the closing sentence of a ever, support Broadbent's explanation, which would at- familiar letter from a valued correspondent who had Greek and Latin, or the so-called classical course, as the most essential preparation for eminence in medi-seven or eight years in Greek and Latin when every cine or any other profession. The question plainly lesson is about as repugnant to him as an old-fashimplies that neither the boy nor his parents or guar-ioned dose of an infusion of senna and salts, is an dians can properly determine what profession or admirable method for making him an adept in the calling in life will be best suited to his tastes and art of "shirking" and nothing else. mental qualities, until he has attained an age sufficient to give a degree of maturity of judgment; but in the meantime the boy's education must be progressing, and we are asked, what shall he study?

We answer, first, that every boy should study thoroughly, persistently and accurately the elementary branches that constitute the foundation of all education. By the time he has become well trained in the correct use of his own native language (the English) in reading, writing and speaking it with ease and accuracy, and has acquired a reliable knowledge of the more elementary mathematics, geography, and history, his mental faculties will have become sufficiently developed to enable an intelligent parent or competent teacher to discern clearly the important natural mental aptitudes and inclinations that characterize the boy. And on a fair appreciation of these must be founded, not a choice of a profession or calling for life, but the further direction of his education, in the most profitable manner, until he reaches the age and knowledge of the professions and occupa tions of life to enable him to make his own choice.

Perhaps the most important era in the educational history of every boy is the one we have just indicated as completing a knowledge of the fundamental branches of all education. If his real mental aptitudes are correctly appreciated, and he is permitted to enter upon such further studies as are congenial to him, whether they be in the direction of the physical and natural sciences; in the field of literature, history knowledge for the work of after life. To ask us to and evidence of his work and learning, will long be re qualities. To insist that a boy shall be drilled for and very important.

It may possibly be thought by some that, in discussing this subject of early education, we are treading upon extra-medical ground. But when it is remembered that the physician must deal with both bodily and mental ailments, and that one of his highest duties and most proper studies is the prevention of disease, and showing how it may be prevented, it will be evident that the discussion of the faults of education is certainly within the true professional field. Physicians, and intelligent people generally, know that physical constitutions are different, and it seems strange that, in spite of the cumulative evidence of centuries, it is so seldom that people-and "educators" especially - recognize the fact that mental aptitudes, tastes and powers are as different, or more so, than physical constitutions. It will be a bright day for humanity when parents and teachers open their eyes to the fact that boys are not pegs of the same shape and size, all to be stuck into the same hole. No two trees are alike, and no two leaves on the same tree; and common observation shows that even the lower animals, of the same kind, differ in traits, instincts and mental capacity. Who has ever seen two brothers, even twins, alike in mental capacity and aptitude?

# ALFRED C. POST, M.D., LL.D.

In the death of Dr. Alfred C. Post, M.D., LL. D., which occurred at his home in New York, of and art; or in the acquisition of ancient and modern eystitis, on Febuary 7, America has lost one of her languages, he will make good progress and will ae- most scholarly and distinguished surgeons, and one quire real mental discipline, development, and useful who, though he leaves no huge volume as a monument name some one definite course of study for all our membered for his marked dexterity and precision in boys, or even for all who are expected to choose operating, and his great mechanical ingenuity in desome one of the professions, would be very like ask- vising new operations, new instruments and new aping us to select one pattern and size of shoes to fit pliances. With these qualities added to an encycloall the boys alike. Almost all our best universities, pædic knowledge of the literature of his profession, colleges and higher schools provide not only the full and a rare goodness of heart and love for his fellowclassical course, but the "Latin scientific," and sei- men, it is not/remarkable that he should have attained entific courses, thereby affording a proper selection such eminence in his profession, or that he continued fitted for the different mental tastes and aptitudes of his work almost to the day of his death, having been different scholars—and that boy will attain the high- in the active practice of medicine for almost fifty-six est eminence in whatever pursuit of life he chooses, years. As is well known his work of late years has who is guided at the proper age into that course of been mostly in the field of plastic surgery, and his studies which is most congenial to his natural mental contributions to this subject have been very many

# SOCIETY PROCEEDINGS.

### CHICAGO GYNÆCOLOGICAL SOCIETY.

Regular Meeting, December 18, 1885. THE PRESIDENT, DANIEL T. NELSON, M.D., IN THE CHAIR.

W. W. JAGGARD, M.D., EDITOR.

Dr. W. W. JAGGARD read a paper entitled

TWO RECENT MODELS OF THE AXIS-TRACTION FORCEPS.

some modification by the writer, although such a contribution to the literature of the subject would be perfectly legitimate in view of Pajot's witty remark to or spoons. Tarnier claims a number of advantages the effect "that he does not reproach a man for hav- for his instrument over any other axis-traction forceps. ing invented a forceps, since that might happen to He claims that it is superior to the classical instruany one."-(Barnes.)

Breus and Felsenreich, formerly assistants respectively in the third and first obstetrical clinics of the of the principal pelvic axis. Vienna General Hospital, have recently made important alterations of Tarnier's axis-traction forceps. head to permit it to seek its way through the pelvis The importance of these modifications was so great in the direction of the least resistance. that no apology was demanded for calling attention

to the instruments.

As the result of the labors of Sir J. Y. Simpson, Nageli, Busch, Levret and others, the low forceps said that traction with Tarnier's forceps is not made operation may be regarded as a comparatively perfect in a curved line, accurately coincident with the prinoperative procedure, both as regards instruments and cipal pelvic axis, when the head is at the inlet. Nor modes of operation. The case is different with the is traction in this direction absolutely necessary, as high forceps operation. This operation is always remarked by Schauta, seeing that the resultant of the difficult, and sometimes dangerous, with the instru- forces, developed by uterine contractions, and the ments mentioned. The cause is obvious. The ap- resistance opposed by the pelvic floor, does not proplied force can be resolved into two components, one pel the head in the direction of the principal pelvic in the direction of the axis of the plane of the inlet, axis. the other perpendicular to the first, directed towards the posterior surface of the symphysis. The first traction should be made, are of relatively slight value. component is alone active in causing the descent of the head; the second makes the extraction more dif- to apply the forceps to the head at the inlet, ought to ficult, and exposes the maternal tissues between the have a correct conception of the direction in which head and symphysis to traumatism. As remarked by traction should be made. On the other hand, strict Schauta (Grundriss der Operativen Geburtshilfe, attention to the handles may prevent the operator Wien., 1885, p. 162), "the unphysiological, and from observing a number of important events, ex. therefore mischievous element in the operation of gr., the relation of the head to the vulva, slipping of the forceps, as compared with the effects of uterine the instrument, etc. (Schauta.) contractions, when the head is at the inlet, consists in the fact that the forceps draws the firmly-held head in a direction which it can never follow, while the uterine contractions simply drive the head into the decessor's lies in the mobility conferred upon the pelvic cavity, and permit it after that to seek the direction of least resistance." The older obstetricians, so-called axis-traction rods. The head does not follow fully recognizing these facts, attempted to apply the low the direction of the principal pelvic axis, but power to the classical forceps in such a way as to se-seeks the path of least resistance. In consequence, cure a more favorable direction of traction. Osiander the operator is spared the fatigue of unnecessary (1799) and Stein, Sr. (1805) may be mentioned effort, and the mother, the dangers of traumatism among the older obstetricians who devised instru- from violent traction. ment for making traction in the axis of the inlet. Hermann (1844) (Kilian's Armamentarium lucina which has a great advantage over the forceps of Tarnorum), constructed an instrument in which an iron nier, in that a greater degree of mobility, during lever is attached to the lock. J. P. Hubert (1860) traction, is conferred upon the head. The continuity attached a vertical iron lever to the extremities of of the blades (Löffel) is interrupted at, and below, the ordinary forceps. This lever was subsequently the fenestræ, by a strong flat joint, which admits of

attached to the lock. Eugène Hubert, his son, constructed an axis-traction forceps with parallel branches and a sharp perineal curve. Chassagny, Joulin, Pros, Poulet, Moralès Apaca (1871) and others, have constructed various types of axis-traction forceps at a more recent period. In many of the modern French instruments an attempt has been made to apply some of the well-known principles of veterinary surgery.

In 1877, Tarnier, following in the wake of Hermann, Hubert, and the more recent French investigators, constructed and published a description of his well-known instrument. Since that time, he has produced more than thirty distinct models. His last The object of the paper was not the description of model consists of the classical forceps of Levret (without a perineal curve), and axis-traction rods attached to the posterior, inferior border of the blades, ments in the following particulars:

1. It is possible to apply traction in the direction

2. Sufficient mobility is conferred upon the child's

3. The handles indicate to the operator the direc-

tion in which traction should be made.

With reference to the first proposition, it may be

The handles, as indicators of the direction in which

On the one hand, the operator who is at all qualified

Finally, the handles are not a correct indicator of

the direction of the principal pelvic axis.

The advantage of Tarnier's forceps over its pre-

I. Breus has recently constructed an instrument

Y. Simpson's forceps.

Simpson's Modification of Tarnier's Axis-Traction suggestion of the button-hole joint is, to put the case Forceps.—In 1880, Dr. Alexander Simpson, of Edin-very mildly, disingenuous. burgh, sent to Dr. Carl Braun a modification of Tar-nier's axis traction forceps, which at once superseded opinion that the axis-traction forceps of Breus and the French instrument in the first obstetrical clinic of Felsenreich were superior to the most recent model the Vienna General Hospital. Simpson substituted of Tarnier's, or any other axis-traction forceps that Sir J. Y. Simpson's original model of the classical in-had come under his observation. He requested that strument for Levret's. The compression screw is the discussion be limited to the comparative merits located on the upper third of the superior surface of of the forceps presented—Breus's and Felsenreich's the handles. Comparatively unimportant modifica- and other recent models of the axis-traction intions were made with reference to the traction-rods, strument. and the hard-rubber handle, into which the tractionrod fits. Felsenreich has materially enhanced the axis-traction forceps in 1880, identical in principle value of Dr. Alexander Simpson's instrument by a with the instrument constructed in 1860 by the elder number of important alterations.

son's axis-traction forceps, as shown by the model Achsenzug-Zangen, Stuttgart, 1881. presented, manufactured by Mr. J. Leiter, of Vienna,

Simpson's forceps (Wiener Schulzange).

estra, into which traction-rods are inserted, and main- two or three years before. tained by the buttons on the ends of the rods.

handles of the Simpson forceps.

4. A hard-rubber handle for the traction rods. The unnecessary. arrangement for the insertion of the traction-rods isms in Tarnier's and Alexander Simpson's axis-trac-

paratively recent period, but prior to 1883.

CAL ASSOCIATION, September 26, 1885, and the Ther- in which they might be profitably employed.

movements in the sagittal direction, and correspond- apeutic Gacette, December 15, 1885, calling attention ing variability in the angle at which traction is ap- to the facts, that a forceps, identical with the instruplied to the head. The superior ribs of the instru- ment devised by Dr. Neale in all essential details, ment are prolonged, and turned upward like spurs. had been constructed several years before in Vienna These spur-like prolongations are joined by a metallic by Dr. Felsenreich, and that Dr. Neale had probably rod in order to preserve a certain parallelism of the forgotten the existence of that instrument, although blades. Apart from these peculiarities the instru- he had seen it in active operation in the lying-in ward ment is identical with the original model of Sir James of Carl Braun, in various courses on operative obstetrics, and in the shop of Mr. J. Leiter, the instru-This instrument, devised by an obstetrician of ment maker to the Vienna General Hospital. The large experience, is employed on an extensive scale only criticism that the writer would make, with referat Vienna, in Gustav Braun's obstetrical clinic, ence to these editorial notes, was, that Dr. Felsen-Schanta (Grundriss der Operativen Geburtskilfe, reich, not Dr. Neale, applied the compression Wien, 1885, p. 164, et seq.) recommends the instru-thumb-screw to the ends of the handles. Dr. Neale ment as the most perfect axis traction forceps in ex- has made some trivial modifications in the hard-rubistence, to his classes at the University of Innsbruck. ber handles and the mode of insertion of the trac-Fürst's recent favorable note on Breus's forceps in tion-rods. Dr. Neale made no allusion to Alexander the Centralblatt für Gynikologie, 1885, is well known. Simpson's modification of Tarnier's instrument in the II. Felsenreich's Modification of Dr. Alexander paper mentioned, and his allusion to Dr. Felsenreich's

Dr. John Bartlett said that he had devised an Hubert. His attention had been first called to the Felsenreich's modification of Dr. Alexander Simp-coincidence by Professor Lahs's monograph on Die

DR. HENRY T. BYFORD thought the instrument deduring October, 1885, consists of the following parts: scribed by Dr. Neale in the September number of the 1. A practically unaltered model of Sir James Y. American Journal of Obstetrics, 1885, was identical in all essential particulars with Felsenreich's modifi-2. Button-hole perforations, one behind each fen-cation of Alexander Simpson's instrument devised

DRS. PHILIP ADOLPHUS, A. REEVES JACKSON, H. 3. A removable compression thumb-screw, which P. MERRIMAN and H. P. NEWMAN had never obsinks into a groove made in the extremities of the served indications for axis-traction forceps; had never employed such instruments, and thought they were

Dr. JAGGARD said he had no desire or intention to into the hard-rubber handles differs from the mechan-discuss the general subject of axis-traction forceps, and had expressly requested that the discussion shoul be limited to the consideration of the relative merits The attachment of the compression-screw to the of the instruments presented for examination, (Breus' ends of the handles, and certain changes in the curve and Felsenreich's) and other modifications of the of the axis-traction rods, have been made at a com- axis-traction forceps. He thought that gentlemen of limited experience in cases indicating the high forceps Dr. L. E. Neale, of Baltimore, published an article operation, and particularly those who had absolutely in the September number of the American Journal no experience with axis-traction instruments, should of Obstetrics, 1885, entitled "An Obstetric Forceps." be temperate in their criticism. Carl Braun. Pajot, In this paper Dr. Neale describes an axis-traction Charpentier and others had practically rejected such forceps, devised by himself, which differs in no es- instruments, but only after serious and experimental sential particular from Felsenreich's modification of consideration of their merits. On the other hand, Alexander Simpson's instrument. Editorials have many younger obstetricians, including Schauta, Felsappeared in The Journal of the American Medi- enreich, Breus, Ehrendorfer, thought there were cases case of

PELVIC ABSCESS, WITH REMARKS UPON THE TREATMENT.

Mrs. T., aged 25 years; married five years; Ger- of cupric sulphate. man descent; of nervous temperament; small and slight in figure, but in good general health, consulted prevalent epidemic, dysentery, and died on the 23d me, during the fall of the year 1884, for sterility and instant. At the post-mortem examination, made dysmenorrhea. She had never menstruated without about thirty hours after death, I was somewhat hampain, but had otherwise enjoyed good health. An pered on account of a promise, exacted by the husexamination revealed a small uterus and cervix, with band, that no organ should be taken out of the body, acute anteflexion and consequent apposition of the and by the fact that I had but thirty minutes for work anterior and posterior uterine walls. Slippery elm before train time. The body had again become extents, used about once in eight days, alternated with tremely emaciated. Abdomen was flat. An incision glycerine tampons, had for their effect a gradual re- was made from a little above the umbilicus to the lief of the dysmenorrhæa.

called to her house to treat her for a severe attack of uterus backwards to within about half an inch of the pelvic cellulitis, contracted a week before while re-sacrum, so as to put the anterior vaginal wall upon turning home from a dance. The whole pelvic con-the stretch, and had buried the uterus and other pelnective-tissue seemed to be involved, and several vic organs in its substance. Both round ligaments large tender lumps could be felt externally in the left were seen issuing from this mass. It was necessary

scess opened into the anterior wall of the rectum, behind it to arrive at the rectum below. The finger about two inches from the external anal orifice. On broke through into the rectum, behind the dimpled account of the extreme debility of the patient, her cicatrix that marked the site of the former outlet of horror of operative procedures, and the absence of the abscess. The left broadligament was then found any well-marked fluctuation, all surgical interference to be represented by, or inclosed in, a tough band with the suppurative process had been out of the half an inch thick antero-posteriorly, extending from question. Palliative treatment was instituted and the uterus to the left side of the pelvis. The left continued without effect until the 6th of June. In ovary could not be found. A small flat piece of what the meantime the pulse remained in the neighbor-seemed to be ovarian tissue was found adherent to hood of 120° F., and the temperature fluctuated be-the bladder on the right side. The right broad ligatween 99 F. and 102° F.; attacks of acute suffering ment was apparently disorganized and inseparable and septicæmic diarrhœa required opiates for their from the plastic deposit. The rectum was held inflated relief; the bacillus tuberculosis was discovered in at the point where it issued from the pelvis, was darkthe pus; yellow pigmentary deposits covered her colored and injected on its external surface, and face, and emaciation became extreme, her weight blackish and softened on the internal. Neither the ranging between eighty-two and eighty-three and one- appearance nor the odor of an abscess could anyhalf pounds. Her courage begain to fail, and finally where be discovered. after the concurrent recommendation of the con-M. Chamberlin and Martin Matter, she consented to first, the operation per rectum; second, the cauterizan operation. Accordingly, on the 6th of June, Dr. ation by sulphate of copper. Both secured a large Wm. H. Byford operated according to his usual opening at the lowest portion of the pyogenic cavity, method in such cases. After etherization, he forcibly and brought away the unhealthy granulation-tissue. dilated the sphincter of the anus, tore open the Had the patient consented to have the unobstructed fistulous track with the finger, and then enlarged the outflow of the pus maintained by one or two subseabscess in the same manner, in the direction of the quent dilatations, similar to the first one, the cure lowest part of the cavity, until it readily admitted two would undoubtedly have been more rapid. As it fingers. He then made a digital examination, and was, the contracting sphincter and abscess outlet renfound the abscess to extend across the pelvis, behind dered the drainage and irrigation imperfect. Progress the uterus and broad ligaments, above the level of toward recovery was, however, again inaugurated the fundus uteri on the left side, and to be filled with upon the melting away by the sulphate of copper of bands and projecting masses of granulation-tissue of the newly and imperfectly formed cicatricial tissue, about the consistency of freshly coagulated blood, reproducing the opening made at the time of the Previous treatment, except to diminish and control operation and by the destruction of the degenerative the septicæmia, had evidently been a complete failure. deposits and cauterization of the chronic pyogenic All of this medullary tissue was then scooped out with surface. The only kind of treatment preferable to the finger and the cavity thoroughly cleansed with a this free drainage and clearing out method is the two and a half per cent. solution of carbolic acid. strictly antiseptic, which, after the pus has once found

Dr. Henry T. Byford then read a report of a F., on the day following. Perfect drainage had been secured, for at the time of each dressing no pus was found inside of the abscess. The cavity of the abscess was treated by irrigation with antiseptic solutions, insufflation with iodoform and the introduction

Early in September she was attacked with the then pubic bone. The pelvis was filled posteriorly with a About the middle of the following February, I was solid mass of plastic tissue, which had drawn the to cut down about half an inch before reaching the Six weeks from the beginning of the attack, an ab- depressed uterus, and to tear through solid tissue

The higest temperature after the operation was 99 a way into the rectum, can only be accomplished by

counter-opening in the vagina is much less preferable, nres must be resorted to. because a recto-vaginal fistula, difficult of cure, and It is needless to state that if a parametritic abscess liable, like anal fistula, to inoculate the system with points anywhere along the iliac fossa, it should be tuberculosis, would be left.

a moment be entertained, for at least two reasons: to call attention only to strictly circum-uterine ab-1. It is necessarily followed by a recto-abdominal scesses, which can only be reached from the vagina fistula of great length, which is incapable of being or from the supra-pubic region. promptly cured, and is apt to become an unfailing source of systemic infection. Those patients already downward, and, in fact, does not point anywhere, operated upon, as far as reported, have usually either it is then the surgeon's task to find the safest way died shortly, or within a year or two, imperfectly into the abscess through a smaller or larger amount cured. They would have, on an average, lived about of surrounding tissnes. He first considered the vagas long without the operation. In fact, it is not im- inal operation: When so eminent an authority as of nature. To operate as does Lawson Tait, before point of view an extro-peritoneal outlet of the ab-

never be incurred without a prospect of compensa- mentioned, vouches for the method. tion in the way of bettering the patient's chances of recovery. Neither theory nor practice as yet prove Lawson Tait, that there are some grave objections such compensation to be attainable.

cedure is safe and the recovery sure.

for the difference in the course of the after-treatment small, and the tissues so immovable. of peri-uterine abscesses opened through the vagina vaginal operation.

dently make an operation here permissible, and per- guard against. haps advisable, but only as a trial. If the abscess

first closing this septic inlet. The treatment by a does not retract within a reasonable time, other meas-

opened and drained from this point; but this does The treatment by abdominal incision cannot for not belong to the subject of to-night, as he desired

When a circum-uterine abscess does not point possible that one such, whom I had, previous to the Schröder, of Berlin, advocates this method of reachoperation, an opportunity of watching for a short ing a high peri-uterine abscess there must be cases in time, would finally have recovered through the process which this operation is advisable. From a general the abscess has discharged, and then treat it antisepscess through the vagina would seem to be safer than tically through its single opening, is an entirely differlaparotomy, upon the same grounds as a vaginal hysterectomy is safer than Freund's abdominal hysterec-2. The danger of an abdominal incision should tomy, and Schröder's successful operation, already

At the same time Dr. Fenger firmly agreed with to the vaginal operation. In the first place, a high-In some cases one dilatation per rectum, without seated peri-uterine abscess is difficult to reach. It after-treatment, has sufficed for a cure; in other cases is difficult to work with safety two or three inches two or more, with subsequent antiseptic irrigations, above the introitus of the vagina, in tissues that are have become necessary. But as a general rule it immovable, and where the parts cannot be drawn may be said that, nnless instituted too late, the pro- down toward the operator, These difficulties are, of course, of less importance in the hands of an opera-DR. CHRISTIAN FENGER said that when a peri- tor like Schröder, but increase in significance for less uterine abscess points somewhere in the vagina experienced surgeons. But the operation through around the lower part of the uterus, no surgeon the vagina is more or less an operation in the dark. would, of course, think of doing anything but open. We may be dissecting up along the posterior surface ing the abscess, inserting a drainage tube, and by of the neck of the uterus, and may open into rewashing ont, endeavoring to effect the closure of the cesses of the peritoneal cavity between the abscess But in some cases the opening into the vag- and the uterus. Further, it might be easy in this ina is just as ineffective as a spontaneous opening place to open into the rectum. Another danger, esinto the rectum. In obstinate cases of this kind, pecially in abscesses between the two layers of the laparotomy, at a later period, will have to be per-lateral ligament, might easily arise from the rupture formed. There is, however, no doubt that secondary of the large nterine vessels running in the wall of invasion of septic poison, when the abscess is opened the sac. It would be exceedingly difficult, and he from the vagina, is much more difficult to prevent should say next to impossible, under such circumthan invasion into the abscess from the abdominal stances, to secure and ligate these vessels, the point opening. It is only in this way that we can account of ligation being so high up, the working space so

All these objections and dangers we do not enand through the abdominal cavity; a difference that counter in laparotomy. We can see distinctly, and Lawson Tait rightly calls attention to as being de-recognize with our own eyes, every particle of tissue cidedly in favor of the abdominal operation. Here we have to divide; the large uterine vessels, if dithe abscess closes more quickly, and the course of vided, can easily be taken up and ligated. There is the after-treatment is much less febrile than in the no risk of having any communication between the abscess and the peritoneal cavity, which we cannot Sometimes a peri-uterine abscess will point into either close up or drain. If the laparotomy last the rectum, sufficiently low down to permit of an longer, and gives more technical work to the suropening here. It does not seem probable that the geon, it seemed to him that these objections are fully access from the rectum will be very promising, as balanced by the advantage of not being obliged to effective drainage is next to impossible; but the cases work in the dark, of not having to battle with eneof cure by spontaneous opening into the rectum evimies that we cannot see, and consequently cannot

But these are not the only advantages of laparotomy,

as compared with the vaginal operation. The free is being evacuated, the orifice seen or felt and such access to the whole interior of the abscess cavity has treatment as is desired applied. He very much prealso to be taken into account. By laparotomy, the fers stretching and tearing for the purpose of increasabscess is laid open to about the same extent as a ing the size of the orifice to the use of cutting tubercular peri-articular abscess. We can examine instruments. The opening will not so readily close, the whole interior of such a cavity, and scrape off, and there will not be so much hæmorrhage. In or remove by other means, whatever objectionable effecting the discharge of the pus, we should rememmaterial we may find, cheesy matter, tuberculous ber that the reason why the pyogenic cavity is at no tissue, fungoid granulations—since we can see clearly time wholly obliterated is because there are irregular every place where the instrument is applied, without loculi or pockets so situated that they do not empty any danger of going through the abscess wall into themselves. The opening should therefore be made any surrounding cavity or organ. It is more than large; the parts torn by the fingers until this inferior possible that this free access to the abscess wall has margin of the opening is as far below the main body something to do with the speedy recovery subsequent of the cavity as practicable. With the fingers the to laparotomy, as compared with the vaginal opera- interior bands and partitions should be completely tion. But, of course, there will always be connected broken down, and the interior of the cavity rendered with laparotomy the inherited dread of opening that as nearly symmetrical as possible. This will enable ominous peritoneal cavity. Modern surgery, how- the whole of the contents of the cavity to escape by ever, is making steady progress in diminishing these means of gravity, and the fluids used in irrigation dangers. Thus, the dread, as well as the safety of find their way out without difficulty. In addition to the patient will, to a great extent, rest in or depend the shaping of the cavity, the large granulations upon the care and skill of the operator.

the contents of the paper, further than to express the lining memorane of the pyogenic cavity, and himself in reference to the mode of operating adopted converting it from a state of indolent ulceration to in consultation with the gentlemen mentioned. A one disposed to heal. This process of curetting also be the most eligible direction to approach collections cavity as before. of pus. In instances in which the pus is making its way toward the vagina, and fluctuation can be felt sulphate of copper seemed most useful, and contribthrough the vaginal walls, it ought to be evacuated uted the last influence necessary to the cure. He through that canal; but when the point of discharge has said nothing about the more common items of is not thus indicated, the exploration is most easily treatment, such as irrigation, disinfection and stimumade through the rectum; and all chronic cases that lation. His intention is to show the facility with have already commenced to discharge into the rec- which, in many instances, these purulent collections tum can and ought to be treated from the cavity of can be reached and treated by dilating and distending that viscus. He would make no exception, however the rectum, and the comparative safety of such high the opening might be, so it was within the pelvic proceedings.

cavity. By proper preparation the whole length of DR. E. C. Dudley said that the experience of Dr. as drainage and disinfection-more complete.

should be stretched to laceration, and until there is heal must often be the starting-point of sinuses formed no tendency to immediate contractions of the anal by the uncontrolled burrowing of pus in many direcopening, and till it can be dilated to the full extent tions. The almost inevitable invasion of the abscess of the rectal cavity. Thus thoroughly opened, the cavity by faccal matter is clearly a serious factor in whole extent of the rectum can be explored with connection with the history of these cases. The great facility, and often by means of dilators can be great mortality from pelvic abscesses opening sponta-seen, and instruments used under the eye of the neously into the bowel demonstrates the inability of operator. If the pus is to be sought after, palpation nature to provide for adequate drainage. Whatever

generally so abundant-should be scraped away by DR. W. H. Byford did not wish to comment upon the fingers or by a dull curette, thus freshening up large number of pelvic abscesses can be managed produces a change in the capillary circulation that through the rectum with more facility and safety than makes nutritive processes more salutary. Often in any other medium of approach to the deep-seated very indolent cases the sphincter will recover conportions of the pelvic cavity. He did not know tractile power to such a degree as to require one or whether there are any cases situated wholly in the more repetitions of the operation. The same thing pelvic cavity but that can be reached, opened and may be said of the margin of the orifice in the intesevacuated through the rectum. It may not always tine. We will be obliged to enlarge it and treat the

In the case narrated in the paper, the action of the

the rectum can be reached, from the sphincter to the Byford and others in the treatment of pelvic abscess promontory of the sacrum, and from any part of it by this operation must be considered as proving the the pus evacuated, the pyogenic cavity explored and great value of the operation in cases in which the drainage and irrigation safely and securely accomplished. He believes the dangers of this mode of drained by dilatation of a sinus between the abscessoperating to be incomparably less than by abdominal cavity and the rectum. It would, however, appear section; and the other results of the operation-such on general principles, that sufficiently free and long continued drainage would in many cases be almost To effect the objects mentioned, the sphincter unattainable, and that an abscess-cavity left thus to with the fingers becomes easy and satisfactory; if it question, therefore, we may raise relative to the advanced position of Dr. Wm. H. Byford, who, if prac-

Lawson Tait, op. cit,

ticable, would prefer to open a pelvic abscess through the rectum-even in those cases in which nature has not anticipated him—there can be no question about the propriety of enlarging and rendering more effective an opening already formed. He regretted that the essayist had marred a most admirable contribution by the sweeping statement that in all cases in which drainage has been spontaneously established through the rectum Lawson Tait's operation is contraindicated. Nor can he imagine from what premises he has formed the conclusion that Tait's operation prevents closure of the sinus between the abscess cavity which he had removed a few hours before. and the rectum. The question naturally arises, whether Tait's operation might not in such cases fulfil a well recognized surgical indication by establishing a free counter-opening for an abscess which otherwise might refuse to close on account of imperfect drain- old. But slight hæmorrhage followed the operation. age and on account of its forming a blind sac for the retention of fæcal matter. To a larger number of recognized authorities, who deem an opening into the ovarian and cystic. rectum, whether produced by nature or by art, a grave misfortune, the query would naturally arise whether such an opening ought not to be supplemented by a counter-opening, which would bring the draining and cleansing of the abscess-cavity within the easy and absolute control of the surgeon. Furthermore, in view of the decided mortality which attends the spontaneous opening of pelvic abscesses into the rectum, and in view of the almost uniformly successful results recorded in the statistics of Tait's operation already published by Mr. Tait and others, and in view of a very generally accepted rule that the operator, in opening a pelvic abscess, should strive to keep out of the rectum, he does not think a statement that the rectum is to be preferred as the site of a primary operation ought to go on the records of this Society unchallenged.

DR. J. T. JELKS (present by invitation) thought a great mistake was made in waiting too long before pathological conditions of which the paper treated. operating in cases of chronic pelvic abscess.

cavity contained pus, it should be evacuated.

and relations of the fistulous track.

## GYNÆCOLOGICAL SOCIETY OF BOSTON.

Stated Meeting, December 10, 1885. THE PRESIDENT, HENRY O. MARCY, M.D., IN THE CHAIR.

H. J. HARRIMAN, M.D., SECRETARY.

Dr. L. C. Fox, of Lowell, presented A SPECIMEN OF MULTILOCULAR OVARIAN CYST, LARGELY SOLID,

The tumor was of six months growth, and was diagnosed as a solid tumor. Dr. Fox was of the opinion, however, that it was ovarian and cystic. The operation verified this latter diagnosis. Patient was 47 years

Dr. Warner asked Dr. Fox the grounds upon which he had based his opinion that the tumor was

Dr. Fox, in reply, said that in this case the uterus was of normal depth and was movable. In fibroids he almost invariably found that the uterus was increased in depth and more or less fixed. Dr. Fox also cited a case of ovarian tumor of nine months growth which he had removed. Four weeks prior to the operation excessive pain and vomiting suddenly came on. Diagnosis of twist in the pedicle was made and verified by the operation. The tumor was covered with lymph from inflammatory action, and was discolored and almost gangrenous from interference with its circulation. Recovery.

The paper of the evening, by Dr. A. MARTIN, of

Berlin, on

THE TREATMENT OF CICATRICES IN THE COLLUM UTERI AND IN THE ROOF OF THE VAGINA,

(see page 198) was read by Dr. C. W. Cushing, who also showed microscopical sections illustrating the

Dr. Warner did not fully agree with the senti-DR. PHILIP ADOLPHUS thought the paper was ments so ably set forth in Dr. Martin's paper. He beyond the pale of criticism. When the general felt that the tendency of modern gynecologists is to symptoms indicated a collection of pus, the cavity exclude all treatment except operative measures. At should be searched for. If a cavity containing serum least many surgeons seemed to neglect all constituwas found, an operation was contraindicated. If the tional and mild local treatment in favor of the knife, ignoring and having no faith in drugs. If this ten-Dr. H. T. Byford, in closing the discussion, ob- dency becomes general the physician who is not a jected to the quotation of Lawson Tait's statistical surgeon will have little to do except to be a lookertriumphs in this connection. In the last edition of on in the practice of gynecology, while in reality Tait's Diseases of the Ovaries, abdominal section is more can be done with drugs in the way of local recommended for those pelvic abscesses only that and constitutional treatment than can be accomcannot be successfully evacuated from below. They plished with the knife. He asked the gentlemen are generally such as are situated high up, and do not present what had been their experience in regard to point early in the vagina or rectum, or they are sup- the operation for repairing rents and cicatrices of purating haematoceles. The statement that the recto- the cervix, as far as concerned relief of symptoms abdominal fistula, left after abdominal section for a previously complained of. As far as he knew but pelvic abscess that has already discharged into the few had been relieved by operation, as practiced rectum, would heal readily, like any artificial anus, is here, of any of the symptoms of which they suffered. not borne out by facts. Fistulæ connecting the rec- Agreeing with Dr. Martin that the rent was not of tum with the external air have seldom healed, when importance, nor yet the cicatrix without a diseased left to themselves, before a long period of time had condition of the cervical mucous membrane, he inclapsed. Operative measures cannot (in these cases) sisted that such diseased condition with the accombe resorted to, on account of the length, situation panying erosion and eversion of the cervical lips is caused by an irritating discharge coming from the

cavity of the body of the uterus. Unless the disease from the lips of the cervix. He also showed the inof the fundus is cured, and the discharge stopped, struments with which Dr. M. operates, and by referit will do no real good to sew up the cervix. If the ence to the text-book of the latter, which he brought disease of the fundus with its acrid secretion is cured, with him, and by figures on the board, explained the however, the repair of the cervix is unnecessary, as details of position, etc., and the manner of employthe erosions can be healed, the eversion diminishes; ing antiseptics and enforcing surgical cleanliness, and the patient gets practically well. Dr. Warner which enable Dr. Martin to get such results. Dr. recognizes the wisdom of Dr. Martin in attacking Cushing also referred to the danger that the glands, the disease of the fundus by a thorough curetting at which grew with such rapidity, invading tissues where the time of the operation, which, for as skilful an option to belong, may in chronic cases begin to erator as Dr. Martin, and in his own well-appointed increase at such a rate as to be really malignant hospital, is doubtless a good treatment. If Dr. Mar- growths. tin, however, rested at the curetting without repairing or amputating the cervix, he would find that the one, but feared that too much emphasis was put upon patient could be healed without further operation.

nanced by surgeons.

In answer to a question as to the proper treatment Dr. Martin said that for curing the endometritis he tunda Hospital, at Dublin, the routine treatment of was not able, in a few minutes, to gives rules cover- these cases consisted of applications of nitrate of ing all cases, as it was, above all, essential to con-silver in strength varying from 20-40 grs. per 3 i. sider the circumstances of each case; in a general, This treatment of these lesions by local applications way he relied largely on a proper regulation of the was slow and painful, and the profession has drifted functions of the intestines and liver, and locally in into the surgical treatment of these cases. the judicious use of iodine, acid carbolic, or even, in some cases, of acid nitrate of mercury. As for erosions and eversions, the latter are usually kept up by cysts in or under the surface, sometimes pretty deep; these must be punctured and then the erosions heal easily under stimulating or sometimes escharotic applications, swelling disappears and the patient gets well, provided the endometritis has been cured, and not otherwise. For the aerid discharge from the fundus is strong enough to cause not only Austria over the Congress. erosions of the cervix, but also of the vagina, and in bad cases of the labia, thighs and abdomen; re-septic infection, depending (1) upon the local lesion; moving this cause the effects are easily cured. (2) the infection of these local lesions. Then fol-

Martin had set forth in his paper in regard to the (2 peritonitis, or pyamia. There are three varieties pathology of these cases. He asserted that there recognized. First, Puerperal peritonitis, or puerpewas no real erosion of the epithelium in those cases ral endometritis, with a symptomatology of fever, where the epithelium seemed to be absent, but that unclean lochia, meteorismus, vomitus, and peritonithe gland tissue of the cervix which is normally lim-tis. Post-mortem section shows endometritis consecited to the mucous membrane or its immediately sub- utiva, salpingitis and peritonitis purulenta, with exujacent layers, increases to such an extent as to in-dations. Second. Puerperal metro-phlebitis or pyevade the other tissues. This process sometimes goes mia without peritonitis, the septic virus passing on to such an extent as to lead to glandular degen- through the placental insections to the uterine veins. eration of the entire thickness of the cervix. In As symptoms we have: High fever, chills, torpor, was the only one which promised success—showing the hopelessness of the ordinary stimulating treatment often employed. Dr. Cushing exhibited several castions which probable the properties of the ordinary stimulating treatment often employed. Dr. Cushing exhibited several castions which where the properties of the ordinary stimulating treatment of the memory of the properties of the ordinary stimulating treatment of the memory of the ordinary stimulating treatment of the ordinary stim eral sections which, under the microscope, illustrated septica.
the pathology of these cases; he also showed sections. The treatment is local when a woman begins to tions of the pieces which Dr. Martin had removed have fever on the second day post parties. The ex-

Dr. W. S. Brown thought the paper a valuable the surgical treatment of these cases. He did not Dr. Warner insisted that hereabouts, however, agree with those doctors who do so much surgery. many gynecologists practiced operations for repairing In his hands the majority of these cases yield to the cervix without attacking the disease of the body, milder measures, such as thoroughly scraping the afand that, perhaps from lack of skill and advantages fected parts by means of the dull or sharp curette. of Dr. Martin. He had known of many bad cases This method of treatment had yielded better results of cellulitis, etc., caused by the operation with than local applications of carbolic acid or iodine. out cure of the disease. He playfully likened such In some cases, however, excision is the only efficient incomplete treatment to excision of a section of the treatment. When minute cysts are present in the eroded upper lip in boys who do not keep their noses cervix they must be punctured. Proper constituclean, and thought the latter operation not counte-tional treatment is of great importance and should never be overlooked.

Dr. Marcy said that twenty years ago in the Ro-

# FOREIGN CORRESPONDENCE.

### LETTER FROM VIENNA.

(FROM OUR OWN CORRESPONDENT.)

Puerperal Fever-Statistics of the Lying-in Clinic -Laceration of the Perineum-The Enthusiasm in

In the Vienna school puerperal fever is known as Dr. E. W. Cushing defended the views which Dr. low: (1) high fever and inflammation of the genitalia;

placed in the uterus. The formula used is:

R Iod. pulv...... 18 parts. Amyl. puræ, Glycerinæ, Gum arabic.....aa 2 "

amylum), has also its merits. It has been found that this condition from others which may simulate it. the cases of puerperal metro-phlebitis, although at forming abscesses and involving the lungs themselves, large delegation to Washington. I hope to be able tend, in a large per centage of cases, to recovery; to establish equal interest in Buda Pest and Munich. while those cases of puerperal peritonitis almost al. I trust that the Executive Committee will publish patients are given alcohol very freely.

cale-Behandlung in der Gebürtshülfe, Archiv. f. Society in Strassburg last September, members of the Gynak., Bd. xxvii, heft 2), writing of the statistics local committee met each train upon its arrival. of the Lying in Clinic here, for the years 1882, 1883 Large signs were placed in the station pointed toand 1884, has furnished us with some very interesting wards a room in the station where the delegates could data. In 1882 the puerperal mortality was 0.51 per receive addresses of boarding-houses or hotels, tocent; in 1883 0.33, per cent.; and in 1884 it was gether with prices and all necessary details. Similar 0.32 per cent.—this including three cases of Cæsar-arrangements should be made at both stations in ean section. Puerperal fever in 1882 occurred in Washington, so that every member, upon arriving, 4.31 per cent.; in 1883, in 3.59 per cent.; and in could be directed at once to such a place as he de-1884, in 3.08 per cent., while other pathological dis-sired. The Secretary-General of the Congress could eases resultant upon labor fell from 6.17 per cent. in also have assistants at the station, so that members 1882 to 4.87 per cent. in 1884; and all this from a could register immediately upon arrival, and receive strict attention to antiseptics and cleanliness in every all necessary instruction. possible detail. In these matters few people have a riper experience than Dr. Ehrendorfer. As first assistant to Prof. Spacth he is responsible every year DOMESTIC CORRESPONDENCE

for about 3000 labors.

One is very much struck here with the rarity of perineal lacerations. The matter becomes plain, however, when one sees with what tact the perineum is handled during labor. The woman rests on her is turned upon her left side, with the buttocks resting upon the edge of the bed, the legs well drawn up and kept apart either with a pillow or by an assistant. The nurse sits on the right side of the bed,

ternal genitals and vagina are washed with a 1-2 per of the nurse keeps the perineum moist with carbolcent. carbolized water, or with a 1-5000 sublimate ized water, and assists the left hand. The patient solution. When operations have taken place, and is enjoined not to bear down, and the head is kept the lochia are pathological, and there is high fever, back forcibly, so as to prevent a too sudden birth. the uterus is irrigated, a glass tube being used. Iodo- The fingers of the left hand are occasionally run form bacilli, containg 5-6 grms. of iodoform, are around the presenting part of the feetal head, just inside the labia, or the head is gently moved toward the symphysis by a well directed action of the left hand. The main thing is to keep the perineum moist and to keep the head back. If there is thinning of the perineum, and a danger of laceration either lat-Make 3 bacilli 5-6 ctm. long. Ice applications to eral or bilateral, episiotomy is resorted to. If there the abdomen are used in peritonitis incipiens. Ergot be immediate danger of a central rupture, an incision is used internally. The antipyretics used are qui- is made from the posterior labial commissure, creatnine, 1-2 grms. daily; sod. salicyl., 3-4 grms. daily; ing a laceration of the second degree, which is operantipyrin, 1-2 grms. daily. If these do not avail, the cold bath is resorted to. Alcohol is used freely in first and second degree, and even sometimes of the pyæmia, but never in peritonitis. In incipient peri-third degree, are operated on immediately after the tonitis the following treatment obtains: Ice pills; birth of the child, except when the woman's condiice cataplasms on abdomen; opium by the rectum, tion contra-indicates such a procedure. For all and quinine by rectum. In puerperal ulcers local minor lacerations serres-fines are used. I have seen applications of iodoform, or of iodol (which is ex-several cases of hydramnios lately, and apart from pensive but devoid of odor), are resorted to. Sali- other methods, the curves made with the women in cylic amylum (1 part of salicylic acid to 5 parts of different positions are quite sufficient to distinguish

The enthusiasm here over the Congress grows tended with metastatic transference of the poison, daily, and I am quite sure that Vienna will send a ways end fatally. Women seemingly moribund, in full details, list of officers, modes of transit, arrangewhom the whole system is poisoned, begin to recover ments for finding lodgings upon arrival, with the as soon as elaborate metastatic action obtains. These rules governing scientific papers to be read, in the leading medical journals of all the large European Dr. Emil Ehrendorfer (Ueber antiseptische-lo- capitals. At the meeting of the German Medical

### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

The Charity Organization Society—Hydrophobia back until the head presses upon the vulva, then she and its Treament-Dr. Edson's Report-Gift to the College of Physicians and Surgeons - Death of "Aunty" Dubois-Permanent Drainage in Ascites-The State Medical Society; Officers for the Year.

The fifth annual meeting of that admirable body, with her back to the face of the patient; the left the Charity Organization Society, was held at Assohand is passed over the right thigh of the patient, ciation Hall on February 1. It has done a vast and manipulates the child's head; the free right hand amount of good by caring for the wants of the deserving poor, providing employment for those able to three; in 1882, two; in 1883, one; in 1884, one; and work, exposing impostors, suppressing street begging in 1885, one, occurring in the month of October, and discouraging indiscriminate alms-giving. The The annual report of Dr. Cyrus Edson, Chief the names and histories of 71,332 families—equiva lent to 285,000 persons; and one great benefit which and 1,701 quarts of milk destroyed by the officers of or whether they are able to pay for medical attend- of pickles, 4,100 pounds of coffee, 790,410 pounds ance. As long, however, as an institution like the of meat, and 212,000 pounds of fruit. The trial of month for each patient treated in its outdoor department-thus making these people feel that they are not charity patients at all, and directly robbing the profession every year of large sums which they would otherwise receive from a class perfectly able to pay a fair compensation for medical services—there is perhaps little chance of accomplishing much in the way of reform as regards the abuse of medical charity. On the occasion in question, among the speakers was the Rev. Dr. Wayland, of Philadelphia, who made a striking comparison of "the old charity and the new:" The old charity, he said, saw a woman with a diseased child on the sidewalk, and gave her money. As a result, in a few days there was a premium for diseased children on the street. The new charity, as represented in this Society, gave the sick child into careful hands, put the mother in jail, and suppressed a nuisance. The Charity Organization the Faculty of the College of Physicians and Sur-Society now has 1,084 members, 483 of whom have been received in 1885.

New York Post-graduate Medical School and Hospital, a discussion on Hydrophobia and its Treatment Mr. Wm. D. Sloane, representing the donors; Mr. constituted the order of the evening, and in the course of it Dr. W. A. Hammond said that when proper precautions had been taken within a reasonable time after a bite by a rabid dog, he had never known the disease to occur. Many cases of persons bitten by dogs supposed to be mad had come under his observation, and the first thing that he did under the circumstances was to take steps to ascertain, if possible, whether the dog really had rabies or not. If he had, or there was any doubt about the matter, he excised or cauterized the edges of the wound, first the last few remaining slaves in the State were emanhaving applied a cupping glass to the part, or caused the patient or some one else to apply his lips to it resides in this city, is said to look even older than his and suck out the poison; the virus being innocuous mother did at the time of her death. unless there was some abrasion of the mucous membrane of the mouth. He also applied ligatures in on February 4, Dr. M. A. Starr read a paper on *The* cases where this was practicable. It had always been *Intra-Cerebral Tracts—their Physiology, and its bear*his opinion that the disease could be communicated ing on the Diagnosis of Lesions of the Centrum Semito a human being only by means of the saliva, and orale; after which Dr. A. G. Caillé read one on thereore he was inclined to doubt the efficacy of the Permanent Drainage in Ascites. Dr. Caillé related process practised by M. Pasteur; but still he did not two cases of cirrhosis of the liver with marked ascites, feel in a position either to deny or affirm the value of in which he had inserted a drainage-tube into the the alleged discovery until further investigations of peritoneal cavity at the linea alba, with the result of the subject had been made.

five; in 1876, five; in 1877, four: in 1878, 2; in 1881, it was found that there was not the slightest indica-

The annual report of Dr. Cyrus Edson, Chief of Society now has on file 100,661 reports, containing the Second Sanitary Division, shows that during the year 1885, 7,000 specimens of milk were examined, it offers to the various medical charities is that by the Board of Health. There was also ordered demeans of its well-organized investigations these insti- stroyed 72,700 pounds of candy, 540 pounds of head tutions can ascertain whether the patients applying cheese, 546 pounds of poultry, 37,905 pounds of to them are really deserving of gratuitous treatment canned goods, 5,160 pounds of cheese, 4,000 pounds New York Hospital makes a charge of one dollar a Gen. Alexander Shaler on a charge of bribery in connection with the selection and purchase of armory sites for the city, came off on the 26th and 27th of January; but the jury were unable to agree, and a new trial will be held at the next term of the Court of Oyer and Terminer, which begins February 15. It is stated that the jury stood ten for conviction and two for acquittal.

Mrs. William D. Sloane, one of the daughters of the late Mr. Vanderbilt, has emulated her father's generosity to the College of Physicians and Surgeons of this city by the gift and endowment, in connection with her husband, of a free maternity hospital, to be conducted under the auspices of that institution. It will be a handsome building of brick and terra cotta, in the new college grounds, and no pains will be spared to make it a model structure of the kind. Although the maternity will be under the control of geons, its business arrangements are to be in charge of a distinct board of managers, consisting of five At a recent meeting of the Clinical Society of the gentlemen. The first board will consist of the President of the College, Dr. John C. Dalton, ex officio; Cornelius Vanderbilt, representing the College board of trustees, and Professors James W. McLane and Francis Delafield, representing the College Faculty.

"Aunty" Dubois, a colored woman, believed to have been the oldest person in the State of New York, has just died at Newburgh on the Hudson, at the alleged age of one hundred and ten years. She was born a slave in Ulster County, N. Y., and was for many years the property of one of the Ulster County Dubois families; being freed at the time when cipated. One of the venerable negress's sons, who

At a meeting of the Academy of Medicine held affording great relief of all the distressing and dan-The statistics of reported deaths from hydrophobia gerous symptoms, and probably prolonging life for a in this city during the last fifteen years are as follows: considerable period. In one case an autopsy could In 1870, three; in 1871, seven; in 1872, six; in 1874, not be secured, but in the other one was made; when

administration of acid phosphate.

age-tube in the same way through an artificial opening possible before distribution. in the abdominal walls; and he said that he considthe organ, just as was the case sometimes in inter-phia; Dr. T. Hansen, of Copenhagen, Denmark. stitial nephritis, myelitis and encephalitis. In affecfections of this kind it was always a source of congratulation to the practitioner to find they were of syphilitic origin, on account of the prospect that relief would be afforded by appropriate treatment; but he had now become satisfied that in non-syphilitic To THE EDITOR OF THE JOURNAL: cases also, if the trouble did not involve too large a that would usually be required, and the patient should ject and who may apply to the undersigned. be instructed to use a chlorate of potash wash and carefully watch the condition of his gums.

tion of peritonitis at the point where the fistula was Veer, of Albany, delivered the annual address in Asmade. No internal treatment was used in these cases sembly Chamber in the Capitol on Wednesday evenother than a careful regulation of the diet, and the ing, February 3d, taking for his subject "The Water Supply of Cities and Villages," the conclusions ar-The President, Dr. A. Jacobi, in commenting on rived at in which are the following: Water needed the paper, remarked that the procedure resorted to for domestic purposes should be taken, first, by gravby Dr. Caillé was an imitation of the method some- ity from mountain streams, lakes or springs; next, if times employed by nature in these cases. It was the former is not possible, provided the surroundings not very uncommon to see in extensive ascites a are safe and proper in every respect, by the Gang spontaneous fistula established at the linea alba, or, syphon driven wells; next by a system of storage, so more frequently, at the umbilicus, and he related an arranging the reservoirs that proper aëration can be instance of this kind which had not long since been employed; and, lastly, if necessity compels that it under his observation at the German Hospital. He must be taken from sources known to be polluted, also related a case in which, after hearing of Dr. then a thorough system of filtration should be resort-Caille's plan of procedure, he had inserted a drain- ed to, and the water be as completely oxygenated as

The following officers were elected for the ensuing ered this likely to form a very valuable addition to year on the last day of the meeting: President, Dr. our present modes of treatment. As to the medicinal Wm. S. Ely, of Rochester; Vice-President, Dr. Sol. treatment of cirrhosis of the liver, there was one Van Etten, of Orange county; Secretary, Dr. Wm. agent in which he had by experience learned to place Manlins Smith, of Onondaga county; Treasurer, Dr. considerable confidence in a certain proportion of Charles H. Porter, of Albany. The following honcases, and that was mercury. It was well known orary members were also elected: Lawson Tait, that in many instances the interstitial hepatitis was F.R.C.S., Birmingham, England; Dr. E. N. Bush, of only partial, instead of involving the entire extent of Philadelphia; Dr. James G. Richardson, of Philadel-

# "THE STUDY OF MEDICINE AS A MEANS OF EDUCATION."

Dear Sir:-Allow me to say to your numerous portion of the organ, there was often a fair chance of readers that the paper on "The Study of Medicine curing the patient by a course of mercurial treatment. as a means of Education," which you have honored He had been taught to look with utter abhorrence with an editorial criticism, (see JOURNAL of January upon the use of mercury, and for many years he 9, 1886) was read only in abstract, the original paper never employed it at all in any form except in syphbeing much too long to be read in a limited period ilitic cases, on account of its supposed injurious of time or to be printed at my own expense. This effects upon the system. But during the last ten or will account for the apparent disproportion of space fifteen years he had resorted to its administration with given to some features of the subject. Moreover, very good effect in the class of cases referred to. It the indirect method of argument has its disadvantwas necessary to select some preparation which could ages; but it also has some advantages. As a literary be given in small doses and kept up for a prolonged production the essay is certainly defective; and yet period, and he was in the habit of employing the bi- I have received several very complimentary letters in chloride. This might be given, largely diluted, in relation to it from men in the highest positions in the solution, but he preferred the pill form. One-thirtieth profession. There are yet a few copies for distribuof a grain three times a day was about the amount tion among those who may be interested in the sub-

In this connection permit me to add a word in relation to the origin and mission of the American There has been quite a stirring up of dead bones. Academy of Medicine in which the paper was read. in the old State Medical Society, which held its an- It was organized in Philadelphia in 1876, when the nual meeting in Albany on the 2d, 3d and 4th of State of Pennsylvania was grievously attlicted with February, occasioned by the remarkable success and fraudulent medical schools; at a time too, when it the scientific interest of the first two meetings of the was impossible to obtain anything more, as a means energetic young State Association. Extra efforts of protection, than bogus medical legislation. Thanks are made to secure a full gathering of the clans, and to a daily newspaper, the Philadelphia Record, for the number of physicians in attendance, as well as effecting, by the use of means known only to the of the scientific papers, a fair proportion of which secret service of the government, what the profession were by men of prominence in the profession, was was not able to do, though several attempts had been unusually large. Among the papers was one read made. And thanks to the Illinois State Board of by Lawson Tait, of Birmingham, on "Methods of Health for a more systematic exposure of the nefari-Diagnosis." The President, Dr. Albert Van der ous traffic in medical diplomas. It was organized,

shameful.

and many others, should certainly be admitted.

existence were it not for the wide-spread evils to be pleased to have Dr. Sibbet give his views on these which we have referred. It can never be more than topics at any time.—ED.] a help in the profession, and should'be welcomed as such. The encouragement of a higher standard in which all its members may join, is its special work; but there is no good reason why any topic pertaining to medicine or to the medical profession should not

be discussed in it.

the Academy is based upon "classical, scientific, and literary schools" and courses of study in them. This is indeed the fact; but it is also true that our of "the informally presented candidates." tions, such as they are, or go without an education. shall be appointed by the President, and the remain-The medical student will never amount to much until ing three elected by ballot, which shall be called the classical, scientific, and literary schools in laying a the Society." good foundation. With the permission of the Editor of THE JOURNAL, I may some day express myself scribed by the By Laws, and made their report at the more fully on these topics.

R. LOWRY SIBBET, M.D.

Carlisle, Pa., Feb. 11, 1886.

we say, when there was scarcely a ray of hope for correspondent credit for that portion of his paper the profession in Pennsylvania; when there were at which was not printed; we naturally presumed that least 2000 medical practitioners in the State, as we had the entire article before us when we wrote. is shown by recent registration, who had either no If the reader will turn to our editorial article in The medical degree or had purchased one from these JOURNAL of January 9, p. 43 et seq., it will be seen schools; and what we have still to regret, is this, that that we have not criticized the objects of the Amerithe greater part of them remain in our midst. It is can Academy of Medicine, but the requirement for not too much to say that our legislature, our medical membership that the applicant must be a graduate of societies, and our medical journals were under the an academic college. It will also be seen that we influence of these institutions and classes of practi- did not criticize the literary merits of the article, nor tioners. A large representation of these were always can we agree with the author that it is "certainly in our legislature, and they assumed to know what defective" from a literary point of view. Our whole were the wants of the professsion and the people. criticism was leveled at the pernicious doctrine that The exposure came, however, and they could no a man must have a classical education, and a diploma longer face the odium. Other States were passing from a classical college, before he is fit for the study through a similar experience, but certainly not so of medicine (or any other profession). Our correspondent's article, as it came to us, contained no In the organization of the Academy under these mention of the value of "classical, scientific, and circumstances, it was thought best to require for mem- literary schools;" it referred to classical schools only. bership at least one academic degree besides the de- And while it mentioned the value of mathematics gree of doctor of medicine. Whether such degrees and the languages, it contained no reference to the may be invariably required will depend entirely upon value of scientific studies. It is not entirely correct the majority in the Association. It may be truly said to say that "classical, scientific, and literary schools that degrees, either literary or medical, have very . . . . were founded by our fathers." Our fathers little signification, as regards mental capacity, educa- and grandfathers founded classical schools, but none tion or professional skill. This much, however, may be said in their favor, that they are conferred by independent groups of men representing institutions of rience and judgment of educated men in older counlearning which have a reputation to maintain. They tries than ours." Their dogmas have been accepted should certainly not be made the only test for mem- without question, along with much bad judgment, bership in an educated body of men. Those who have and those of us who pin our faith to classical studies passed creditable examinations in the army and navy, are flying in the face of experience instead of accepting it, for, unfortunately, having experience and be-The Academy would scarcely have a reason for an ing guided by it are very different matters. We will

### THE RECENT MEETING OF THE PHILADEL-PHIA COUNTY MEDICAL SOCIETY.

To the Editor of the Journal:

Dear Sir:-In the issue of your journal for Janu-An objection may arise in the mind of some, that ary 30, your Philadelphia correspondent enters somewhat fully into the history of the last business meeting of the Philadelphia County Medical Society. He speaks profession is based upon these schools and courses der that it may be fully understood how nominations for of study whether we recognize it or not. These delegates from this Society to the American and State schools were formed by our fathers, and they simply Medical Societies are made, I will quote part of Art. accepted the experience and judgment of educated XII. Section IV of the By Laws which reads as men in other countries than ours. It is plain that follows: "At the stated meeting in June, a committee young men must get their education in these institu- of five members shall be constituted, two of whom he has spent ten or twelve years at very faithful and nominating committee. At the stated meeting in patient study at something; and I am shut up to the October, this committee shall present a ticket of conclusion that he had better spend half this time in candidates for election to the different delegations of

This committee was constituted in the manner prestated meeting of the Society in October, which report was accepted. The "informally presented candidates" which your correspondent speaks of, were [It must be apparent that we could not give our nominated in secret caucus by a self-constituted compart of the Society. This list of "informally pre- of these time-saving instruments is 'type-writing, made to take the place of the ticket proposed by the legally constituted nominating committee.

So anxious was the self-constituted committee to in nomination two who were not members of the Soas delegates under the By-Laws when the regular

nominating committee made their report.

The nominating committee, although constituted in the regular way, was accused of being packed, and of packing the delegates for both the American and State Medical Societies in the interest of the action of the American Medical Association, at its last session in New Orleans. It has been ascertained since the election, that twenty of those nominated in the regular list for the American Medical Association, voted for the "informally presented candidates," twenty for the regular ticket, and five could not be accounted for. This does not look much like a packed ticket in the interest of a faction.

I regard the course pursued by that part of the Society in opposition to the regular ticket as uncalled for and the precedent established a dangerous one for, the best interest of the Society. I will not allude to the great interest taken in the meeting, of which your correspondent speaks, further than to state, that the proceedings were of a character entirely unbe-

coming to a body of medical men.

MEMBER OF THE NOMINATING COMMITTEE. Philadelphia, Feb. 11, 1886.

# MISCELLANEOUS.

Sphygmography in a Baloon,—Ascensions in baloons are now so frequent that we are in possession of many of the physiological phenomena that attend the sudden alteration of pressure. M. Pozzi has taken some tracings with the sphygmograph at a height of 2150 metres. A rapid rise with brief maintenance and rapid descent, disturbed by well-marked Capt. Rob't. H. White, Asst. Surgeon, granted leave of absence dicrotism, were the chief features of the sphygmogram. The peculiarities are, in relation with the lowering of arterial pressure, due to the sudden rarefaction in passing to the higher strata of the atmosphere. They form the counterpart of the experiments of Viveriot with compressed air .- The Lancet, Jan. 23, 1886.

Type-Writing as a Help to Medical Men .-A correspondent of the British Medical Journal calls attention to the value of the type-writer as a help to medical men who write: "In these days of highpressure, when every moment is of the greatest value, and must be made use of, any invention that will tend to save those golden moments will be hailed with satisfaction by those who feel that they have so

mittee, composed of members unknown to a large much to accomplish in their short span of life. One sented candidates" had never been seen by those of and it has been recognized as a great boon by all the Society who were not supposed to be in accord who have made use of it. Authors of all kinds rewith them until the day of election, when it was read, quire printed proofs of their work before it finally and by methods heretofore unknown to the Society appears as a readable book, and in most instances 'press corrections' form a serious item in the bringing out of a book. But it is especially to the medical man who has papers to prepare for reading at make a ticket to suit their purpose, that they placed meetings, lectures, etc., short articles to send to medical journals, that this method of copying will comciety, and twenty-four others who were not eligible mend itself. He can at once see how his written matter will look in print. Papers that are to be read out at a meeting are, we are informed, more easily deciphered when printed in the plain, clear type of the type-writer than even the neatest handwriting."

> REVOCATION OF LICENSE FOR UNPROFESSIONAL CONDUCT.—In the case of the State ex rel. Chapman vs. State Board of Medical Examiners, etc., the Supreme Court of Minnesota have recently held that Sec. 9, c. 125, Gen. Laws 1883, entitled "An Act to regulate the Practice of Medicine in the State of Minnesota," which provides that the "Board of Examiners may refuse certificates to individuals guilty of unprofessional or dishonorable conduct, and may revoke their certificates for like causes," is constitutional. The revocation of such certificates is not the exercise of judicial power, and hence may constitutionally be vested in the State Board of Medical Examiners.

> M. Jules Guérin, one of the most distinguished physicians and scientists of France, and the founder and for many years the Editor-in-chief of the Gazette Medicale de Paris, recently died at the age of 85.

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT. U. S. ARMY, FROM FEBRUARY 6, 1886, TO FEBRUARY 12, 1886.

Major Henry A. Tilton, Surgeon (Ft. Wayne, Mich.), granted leave of absence for two months, to commence on or about March 1, 1886. S. O. 8, Div. Atlantic, Feb. 9, 1886.)

Major H. E. Brown, Surgeon, granted leave of absence for six months, on surgeon's certificate of disability, with permission to leave the department of the Missouri. (S. O. 29, A. G. O., Feb. 4, 1886.)

for two months, to take effect when his department commander may think proper. (S. O. 29, A. G. O., Feb. 4, 1886.)

Capt. Wm. C. Shannon, Asst. Surgeon, ordered for duty at Ft. Warren, Mass., relieving Asst. Surgeon John M. Banister, who will return to his proper station (Ft. Adams, R. 1.). (S. O. 27, Dept. East, Feb. 6, 1886.)

First. Lieut. Guy L. Edie, Asst. Surgeon, ordered for field duty in New Mexico with troop "K," 8th Cav. (S. O. 23. Div. Mo., Feb. 8, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVV, DURING THE WEEK ENDING FEBRUARY 13, 1886.

Crawford, M. H., P. A. Surgeon, detached from the "Shenandoah" on the 8th inst. Wait orders.

Rush, C. W., Asst. Surgeon, detached from the "New Hamp-shire" on the 15th inst., and ordered to U. S. R. Str. "Franklin."

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# ORIGINAL ARTICLES.

DIPHTHERIA IN THE CITY OF KALAMAZOO, MICHIGAN, IN 1884.

BY H. B. HEMENWAY, A.M., M.D., LATE HEALTH OFFICER OF KALAMAZOO.

ing known the cause of sickness.

save in the mind of the enthusiast. Nor shall I ask feet below the surface, there is a bed of clav. the possibly false.

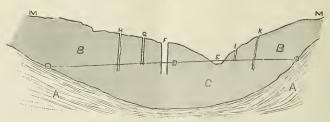
curred in the city of Kalamazoo, Michigan, a large water had a decided taste and smell of coal oil. A number of cases of diphtheria. At first they seemed, little more than 200 feet from the surface shale was to be to a degree sporadic. Though in some localities reached. As far as the drill went below that point several persons were ill, yet no connection could be nothing but shale was found, and at last the enterprise found between the disease in one section and that in was abandoned. another. Before proceeding, however, to give a the city would not be unprofitable.

creeks join the river within the city walls. At the "Ox-bow" an old settler cut a canal across a narrow neck of land, and located a flour-mill, using his canal for a race. He needed no pond as the river furnishes all the power needed without any special storage of the water. Just south of the city the stream is divided. A portion flows on in its natural channel; the remainder is conducted along higher land to run To the physician three fields of work present them- another mill. Before it gets to this mill the race selves, in which he may spend his time and strength. expands into a storage pond. Along this larger creek, He may devote himself to the study of the normal and around the "Ox-bow" of the river, the land is low, and morbid conditions of the human system, simply and in the springtime it is often covered with water. for the satisfaction received in learning; he may di- North of the city the valley spreads out to the width rect his attention to the cure of diseased bodies; or, of three-quarters of a mile. The soil of most of this his thought may be occupied in discovering and maklow land is a rich alluvium. Mixed with the mould is more or less sand, and an occasional bowlder is to be There is, perhaps, no other one disease about which there is so much disagreement among doctors, as diphtheria. It is not my intention here to discuss upon higher ground, which, like the surrounding hills, especially the identity or non-identity of diphtheria, is composed largely of sand. In some places so much and membranous croup. Neither do I propose to clay is mixed with the sand that the earth is very look for those minute forms of life, which one sees firm. In others, the sand may be found in a pure so clearly, and another observer says do not exist, state. Under the whole city, from six to twenty five the reader to investigate with me, at present, whether is not very thick in any place, though its thickness we should give to the patient brandy or quinine tur- varies greatly. At the paper-mill, a short distance pentine or calomel, ice in the throat or hot applica- south of the city, an attempt has been made to get tions. I shall endeavor to give facts as they were, an artesian well. The drill went down between 750 uncolored by any pet theory or idea. When an and 760 feet below the surface. For about 200 feet opinion is stated I shall seek to so express it that the the workmen bored through all kinds of drift material, reader will at once be able to separate the true from mingled sand, gravel, clay, and bowlders. At that depth a small stream was struck, but it did not flow During the latter part of the year 1884, there oc- with sufficient force to answer the purpose. The

A study of the geology of this section of the State history of the epidemic, perhaps a general view of shows that Kalamazoo is situated nearly in the centre of a large depression in the rock. This basin, about Kalamazoo is a beautiful little city of about 15,000 seventy five miles in diameter, and nearly round, is inhabitants, located in the midst of a rich farming filled, as has already been mentioned, with gravel, region. It nestles in a hollow, with hills nearly sur-rounding it. The river, from which the place took may aid the reader to understand the elements of its name, runs into the city from the east, twice turns the water supply of the city. This figure is of course back upon its course and then runs northward until schematic, and drawn without reference to proporbeyond the limits of the corporation. Though hills tion, as the ratio of the diameter of the basin to the have been mentioned, there is no marked elevation depth of the same is many times greater than one of the earth's surface. The river flows silently, and might infer from the diagram. Imagine, then, AA the wind may easily sweep any street in town. Two to represent the bed rock, and MM the surface of

the ground. BCB would then represent the drift on low land, and here they settle where most people same (DDD) for the whole basin, with an outlet (at on the flats one may see their little huts and cottages. E) in the Kalamazoo river. At the depth of C there Some of these are kept as clean as any house could would be little to produce motion in the water; it be; many are less wholesome, and some are decided-would be without special current. More water, there-ly filthy. They are decided fatalists. When the atdepth. There are three sources or modes of water ery raising. The shipping season lasts about six supply for the citizens: Open, or dug wells, drive months. To give a little idea of the amount of that

material. The water level would be practically the would not think of locating their houses. All around fore, coming into the basin in the form of rain or tention of a mother was called to the filthy water sewage would, as soon as it reached the water level, drank, as the cause of her child's diphtheria, she retend to flow out towards E. Theoretically, therefore, plied, "No water! It comes from Himmel." Their and actual tests show it to be a fact, the water at the children are put to work almost as soon as they can water level would not be as pure as that from a greater walk. The soil where they live is well fitted for celwells, and the city pumping works. This last water article raised one need only state that it is not an is commonly known by the name of the first pumps unusual thing to ship forty or more tons of celery in used at the works-Holly. The source of this water a single day; sending it to the Atlantic and Pacific pumped by the city engines is a deep well (figure, F), Oceans and to the Gulf of Mexico. The women



bottom. Among the dug wells I included what for shipment. They will often stand all day with many call spring water. For example, in case 130, their hands in cold water at this labor. In more than to get drinking water a barrel was sunk in the ground one instance children have been sent out to this work by the side of a ditch. Strange to say, at the level before they were entirely well. found in the barrel. To make the work as easy as estimated number of deaths for the year 1884-85 wells, as they only give surface water.

The present system of sewage was adopted in Dethe city, cember, 1880. The first sewers put down were laid. We are

so constructed that the water only enters from the and children do much of the washing and preparing

of the water in the ditch the aqueous fluid was to be Kalamazoo is not a very unhealthy place. The possible, the point selected for lowering the barrel was about 12% per thousand. Omitting the deaths was where the surface came nearest to the water from diphtheria and other so-called preventable dislevel. The water to be had from wells on the hill eases, the rate would have been 8 per 1000. In in the northwest corner of the city is purely surface 1884, from the 7th day of May to the 21st of June, water, as it comes from above the clay stratum al- there was no grave opened in the Protestant porready mentioned. Many of the drive wells do not tion of the city cemetery; and from May 26th to go down deep enough to gain the advantage of drive June 21st there was no interment in the whole cemetery. In June, 1885, there were only ten burials in

We are now prepared to study the earlier cases of the next summer. During the summer of 1884 the the epidemic, and then study the outbreak as a whole work of laying the lateral sewers was pushed vigor. Case 1.—F., aged 3 years, only child. Parents ously, and at the close of the season about twelve both deaf mutes. Family live on the upper floor of miles of pipe had been laid. In 1885 the work was a frame house. The Arcadia creek, above mentioned, again pushed forward. The system adopted is essen- flows through the back yard. The creek is higher tially that of Col. Waring. Only a very small per than the cellar floor. The little girl was reported ill centage of the residences had been connected with with scarlatina about the last of April. As health the public sewers at the time of the outbreak of officer I visited the place and confirmed the diagnodiphtheria. The Arcadia creek, which flows through sis. Ordered the father, who was a mechanic emthe centre of the city, was an open sewer. An or- ployed in a furniture factory, to remain at home. I dinance was passed during the year forbidding its ordered them to keep the child as perfectly isolated dnance was passed uning the vicinity of the city the as possible. The house was in a good condition ground is full of cesspools, many of them long since generally. The cellar was damp, and the mother forgotten. There is a large Dutch population in the city. In played down cellar for some time. She attributed their native country they were accustomed to live her sickness to that. She was quite sure the child had not played with other children. A few days Holly water and city sewage. Traps imperfect; allater, on April 29, the attending physician reported ley in the rear not in good condition. Died suddenthat the scarlatinal symptoms had nearly left, but ly from rupture of an abscess in the pharynx. Could that he had a clear case of diphtheria just developed not trace to previous case. could not conceive of any means by which they House old and decaying. might have come in contact with that disease. The case progressed favorably and in two weeks was re- store building. Private drain; Holly water; private sent for in haste, and when he reached the house the boy was taken sick; slops were thrown out into that family used water from a dug well, and there was no ground until dried up. sewage for the house. A baby under one year old in the same house did not get sick.

down with diphtheria on July 20. The house inside three taken the disease from case 25, though I think was in good sanitary condition. The sink-pipe emp-they did not do so. tied upon the surface of the ground near the house, and the filthy water stood there until absorbed by the ground. Six feet from where the water struck 18, 18, 15, and 22. The house was a small frame the earth a drive well entered the ground. A micro-structure of one story. The cellar walls were made scopical examination of the water from this well of two layers of boards, between which sawdust occupant of the house "could not live in Kalamazoo covered with water. No attempt had been made to on account of her health." On July 25 the mother ventilate the place. The sawdust was moldy and of these children was taken with diphtheria. The mushy. In the cellar were the remains of vegetables not trace these cases to a previous case.

neither place had sewage.

any preceding case.

ern portion of the city. (The others were all north looked very neat and clean. I examined the weeds of Main street.) Could not trace the case to pre- and found that the ground was a soft slime several ceding cases. House near marsh land, and no ven- inches deep. There was a window over these weeds tilation under the rooms where he lived. Taken sick about five feet from the ground. By this window a August 5. Died August 24 of cardiac paralysis.

Case 10.—M., aged 3, taken sick August 16th, and a dug well under the house. Case 11.-F., aged 7, taken sick August 17th, lived in the north-eastern portion of the city in an old more selections. house without other foundation than the earth. A hole in the ground was called a cellar, and there the winter's wood was kept, and the bark and sawdust 3 years, 15 months, 12, 4 and 15 years. First three accumulated. Could not trace to other cases.

two houses, and though I could not trace them to dling vegetables after they were taken sick. case 8, yet they may have taken the disease from physician was called until the night before the first very poor. Three of these cases died.

tember 28. He had always been sickly. The family ditch, eight inches deep, which served to receive and lived on the third floor of a tobacco store. Used hold the family slops. It did not conduct them away.

that day. There had been no known case of diphtheria in the city for several months. The family Used water from dug well. Sewage of place nil.

Case 20.—Mild case. Lived in second story of a ported recovered; but on May 20 the doctor was alley in rear in very bad condition just before the child was dead, probably from cardiac paralysis. The alley by neighbors and allowed to stand upon the

Of the next two cases I simply recorded "bad surroundings." Though I could find no communi-Cases 2, 3, and 4.—F., F., and M., aged 10, 41/2, cation with case 19, yet they may have taken the and 2, living about six blocks from case 1, all came disease from him. More likely they might have all

showed large quantities of organic matter. A former was packed. In the spring the cellar floor was use of the well water was stopped, and all except not less than a year old. The boards around the case 3, which died of septicæmia, recovered. I could door-way were quite rotten. There was no provision for the care of slops, but the tidy housewife Cases 6 and 7 lived just around the corner from stepped upon the back porch and threw her dishwater, the preceding, and had played with them before they etc., upon the surface of the ground. The dug well were taken sick. They were taken sick on July 26 had partially caved in, on account of the giving away and 30 respectively. Case 6, F., aged 8 years, lived of its wooden walls, and consequently the surface of in an old house, which sat down on the ground, with-out cellar wall, and which showed marked signs of the well was used for cooking and drinking. All the decay. Both these families used dug wells, and children in this house were sick. The boys, who were away from home more or less, were but slightly Case 8.—Colored, M., aged 12 years, was taken affected. The girls, who had been in the house sick August 1st. Lived in an old house without much, were very sick, and the older one died. Next sewage. Used dug well. Could not trace this to door to this family lived another, whose sink-pipe opened upon the surface of the ground among a lot Case 9.—M., 15 years old, lived in the south-east- of weeds. From the street both of these places child slept. She had diphtheria. The family used

Not to be burdensome I will only make a few

In Case 40 the drinking water used was very bad. Cases 55, 56, 58, 59, 60, F., M., F., F., aged fatal. Taken sick October 6, 8, 6, 1, and 2, respect-Cases 12 to 17, inclusive, were colored children, in ively. The three older children were sent out ped-The sanitary condition of their homes was child died. Upon examination I found a dug well Three of these cases died.

—M., 12 years old; was taken sick Sepbut the ground. On two sides of this kitchen was a When I reached the house this ditch was full of black cases. Whoever has attempted, however, to keep stawater. The well was not six feet from this ditch, and tistics of this kind readily realizes how difficult it is yet the mother wondered that the health officer to get accurate information, and how often the stawould not allow her a couple of weeks before having tistician receives an intimation that the information that ditch filled up.

In another house upon the marsh, with ditches around, and those ditches dammed to help the celery, there were four children, the oldest 11 years old, and the youngest 18 months. All died except the baby. The baby was not sick. In this case a dug well was used, and I found the women standing upon the well platform pouring their slops off from its edge.

In Case 163 a young lady fell into the fire and was very seriously burned. One of the attending surgeons was at that time attending a case of diphtheria. The general sanitary condition of the house was good.

In one house, old and without sewage, dug well, and no cellar or chance to ventilate under the house, there were eleven cases and seven deaths.

arisen from filth. The physician reporting case 69 the Dutch. recorded as the source of contagion "unknown." asked the owner about the sewer-traps. I then found were nineteen cases, six of which were fatal. the following condition: There was a large and good cesspool of brick behind the house, and only twenty the following conclusions: feet from the building. There was an opening at the surface of the ground for ventilation and cleaning. Four lead pipes connected this cesspool with the former case. four kitchen sinks. There were no traps, but the The pipe to No. contagious. pipes were as straight as possible. The pipe to No. 3 was the shortest and straightest. Since the upper kitchen No. 3 there was frequently to be detected an from a previous case. odor of sewer gas. In this house, all three children had diphtheria without being exposed to any previous come contagious and epidemic. case so far as known. Traps were at once put into each sink-pipe. No other children in the block had may be modified by the constitution of the person,

In most families where the first cases were promptly isolated other persons were not attacked.

Fable I gives a synopsis of the water supply and sewage of the first 292 cases. I may here express a attacks? I regret to say that I have no accurate

sought is none of his business.

TABLE I. WATER SUPPLY AND SEWAGE.

	тот	AL.	FAT	'AL,	Percent
	Num-	Per-	Num-	Per-	of Cases
WATER-	ber.	cent.	ber.	cent.	Fatal.
Holly	53	18	13	21	24.53
Drive Well	IOI	35	10	16	0.00
Dug Well	137	47	39	63	28.47
Cistern,	. 1				
Sewage-					
Cesspools,	33	11	5	8	15.15
City Sewers	33	2	2	3	33-33
No Sewage	253	87	5.5	80	21.74
TOTAL	292	100	62	100	21.23

About twenty-five per cent. of the entire popula-Case 215.—A beautiful little cottage was built on tion of the city use the Holly water. Since only ground that had been used for a long time as a dairyeighteen per cent. of the diphtheria patients used
man's cow yard. A well was dug not more than that water, it seems to indicate that they are less
fifteen feet from the privy. Soon after the family likely to take the disease on that account. Probably
moved into the cottage the little girl was taken sick. there are other reasons besides the kind of water In a few cases I could find nothing about the drank why these citizens should be less prone to the premises in a bad sanitary condition. That, how-disease. A very large proportion of the cases ocever, was no proof that the disease might not have curred among the poor population, especially among

In regard to the portion relating to sewage, it must The patient was a butcher, 36 years old. His chil- be noticed that the places where no provision had dren were playing with him and even kissing him been made for the care of kitchen slops are decidedly after the disease was clearly defined, and yet he was the most prolific of cases, and fatal cases. The very the only member of the family attacked. The neighsmall number of cases in which the premises are conbors had complained of his barn-yard, but the health nected with the city sewers renders the last column officer did not think it probable that Mr. F. had taken of that line of little value. One of the two fatal the disease there. Examination of the meat market cases was No. 163, already mentioned, in which the showed that right under where Mr. F. stood at his injuries received nearly took the patient's life, before work, there was a water-closet in the cellar. The the diphtheria attacked her. As relating to the subsewer-pipe was broken and leaked both water and ject of sewage, it may be noticed that no cases ocgas. In another instance (from my own practice) curred upon the east side of the river until the dams a family lived in a new brick block of four houses. on the river were fixed, and the water raised enough Everything seemed to be in good condition until I to overflow some low land there. After that there

After a careful study of the epidemic, I came to

1. Diphtheria is essentially a filth disease.

2. It may be produced without any relation to a

3. During the earlier stages it is but feebly

4. A simple "sore throat," including under this end of the pipe was several feet higher than the out-head tonsillitis, pharyngitis and laryngitis, may deof doors ventilator of the cesspool, very naturally in velop into diphtheria, without receiving contagion

5. Diphtheria, after being once produced, may be-

6. Diphtheria and the proneness to the disease and by atmospheric conditions.

7. Diphtheria and membranous croup are the same

disease.

To what extent does one attack protect from future regret that I did not keep a fuller account of all the data on this subject. Some persons were attacked a

second time. On the other hand, in one family of having been severely burned. The man 33 years old four children all but one had the disease some years had pneumonia. His four children had diphtheria, ago. This year this one had it and died. Those and three of them died. After the last death he who had had it before escaped this year.

Table II gives the number of cases of males and his entire lungs. It will also be noticed that more females of each age from April 15, 1884, to July 1, girls than boys were attacked during the first period. 1885. For study the cases are divided into four In the next the boys are most numerous. During groups: Those under 6 years old; those from 6 to the years when the maidens are preparing for woman-10 inclusive; those from 11 to 15 inclusive, and those hood they are again more likely to be troubled by over 15. It will be noticed that almost ninety-two the disease. per cent. of the males, eighty-five per cent. of the females, and eighty-eight per cent. of all cases were and 5 females; at 2 years there were 16 cases-4 under 16 years old.

TABLE II.

NUMBER OF CASES.										
		MALE	S.	F	FEMALES.			TOTAL.		
A 1 2 3 4 5 6	N 8 4 9 11 13	M 45	P 3C.41	V 5 12 15 15 12 10	. 59	P 32 24	V 13 16 24 26 25	.1/	31.42	
7 8 9 10	14 17 11 16 11	69	46.62	17 10 10 12	59	32.24	34 21 26 23	128	38.67	
12 13 14 15	5 2 3 4	22	14.86	10 5 6 8	38	20 77	7 9 12 	60	18.13	
18 20 21 22 23 24				2 1 1 1 1			1 1 2			
25 27 29 32 33 35	1   2 1			1 2 1 3 2			1 1 2 1 5 3			
36 37 39 45 47	I			2 2			1 1 3 2 1			
50		1.2	8.11	1	27	14.75	1	39	11 78	
Total .	148	148	100	183	183	100	331	331	100	
Average Age-Males, 9.03: Females, 10.67: Total, 9.94.										

A. Age. N, Number. M, Total Number. P, Percent of Cases,

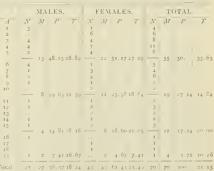
Table III shows that ninety-three per cent, of the males, ninety-five per cent. of the females, ninetyfour per cent. of all cases proving fatal were under 16 years of age. Of the cases over 23 years old, all but four occurred in families where there had been previous cases among the children. Among the four is the butcher mentioned as Case 69. One was an old colored woman who had not had any child sick with it so far as known, but she lived in the neighborhood of cases among the negroes. Of the fatal cases over 15 years old, the boy of 16 was an unusually well developed lad. The girl of 17 was also well developed. So far as could be seen there was no special

caught cold, and at the same time diphtheria took What relation has age and sex to the disease? hold of him, almost immediately extending through

In the first year of life there were 13 cases—8 males males and 12 females; at 3 years there were 24 cases -o males and 15 females; at 4 years 26 cases-11 males and 15 females; at 5 years 25 cases-13 males and 12 females; at 6 years 24 cases-14 males and 10 females; at 7 years 34 cases, equally divided; at 8 there were 21 cases—11 males and 10 females; at 9 there were 26 cases—16 males and 10 females; 23 cases in the 10th year included 11 males and 12 females; 17 cases at 11 were divided among 8 males and 9 females; 15 cases at 12 included 5 males and 10 females; 7 cases at 13 included 2 males and 5 females; 9 cases at 14 showed 3 males and 6 females; 12 cases at 15 give 4 males and 8 females; 5 at 16 give 3 males and 2 females; 3 at 17 show 1 male and 2 females; and at 18 there were 2 cases, both females.

The age at which death took place in the fatal cases was as follows: At 1 year 3 males and 1 female; at 2, 6 females; at 3 years 4 males and 4 females; 4 males and 7 females at 4 years; 2 males and 4 females at 5; 4 males and 1 temale at 6; 1 male and 3 females at 7; 2 males and 4 females at 8; 1 each at 9; 2 females at 10; 1 each at 11; 1 male and 2 females at 12: 2 females at 13; one each at 14; 1 male and 2 females at 15; 1 male at 16; 1 female at 17; and 1 female at 18.

TABLE III.



A. Age. N. Number. M. Total Number. P. Percent of Fatal Cases. T. Percent of all Cases.

It will be noticed that 7 seems to be the favorite reason why they should either of them die. The age for patients. It will also be noticed that boys girl of 18 was the one already twice referred to as reached their highest mortality for any age at the

The girls lost seven at the age of 4. Table III vinced that the practice did much harm. shows that the mortality of females was greater than Though, as before stated, 1 do not propose to disthat of males. What is the influence of weather cuss the subject of therapeutics, yet it may not be upon diphtheria? Table IV gives the weather re- out of place here to say that I think, with only one port, and number of new cases of diphtheria each exception, all the physicians here use some preparaweek for the last six months of 1884. I often no-tion of mercury in the treatment of this disease. Some ticed that when the amount of ozone dropped to one prefer as a general thing the iodides, others the chloor two for two or three days, new cases would be rides. Especially in robust children, my own preferreported, and old ones were likely to be worse. At ence is for the mild chloride, given in 2-grain doses, Christmas time there was considerable snow upon every two or three hours until six powders have been the ground, and there were but two or three cases of taken for a child 5 years old. The one physician diphtheria. The snow melted quite suddenly during above mentioned depends largely upon whisky and the next few days, and within two weeks there were quinine. His success certainly is not better than the twenty-five new cases reported. When the ground average. Within the last year various papers have had been frozen a short time the number of cases recommended the burning of tar and turpentine. I

TABLE IV.

444 1 17		New		COL	****	01 1	0	n ·
Week ending	g	Cases	Ear.	Ther.	Wind.	Cloud.	Ozone.	Rain,
July (fraction)	5		20,001	70,25	3.85	5.08	2,00	0.22
July (macrion)	12		29,175	68.14	5.00	6.05	2.14	0.16
	10	1	29.199	64.65	5.04	4.06	1.57	0.07
	26	5	29.215	72.78	5.06	6.00	2.05	1.78
August	2	2	29 117	72.43	5.00	7.00	2.00	0.26
	9	1	29.257	60.57	5,00	7.06	2.06	0.33
	16	1	29,366	72.53	4.00	4.00	1.06	0.12
	23	1	29 278	72.11	6.00	4.00	2,00	0.52
	30	3	29.108	64.89	5 03	7.06	2,06	0.76
September	6	3	29.292	72.78	4.06	5.00	1.05	
	13	I	29 376	70.22	5.03	4.02	1.08	0,48
	20	9	29,365	63,43	6,08	4.03	1.07	0.18
	27	9	29.216	64.00	6.03	7.00	2 0 5	1.54
October	4	15	29.266	68,24	5.01	8.00	2,02	0,24
	II	27	29.381	59.76	6,02	5.00	2.00	0,96
	18	46	29.399	55-57	5.03	5.00	2,04	0.18
	25	24	29.497	49.09	6.04	5.00	2.03	0.98
November	I	23	29.361	42.57	5.00	9.05	2.01	0,82
	8	27	29.439	38.48	5.02	6,00	2,07	0.85
	15	27	29.389	45.24	4.07	5.03	1.07	
	22	20	29.316	36.76	5.09	7.00	3,00	0.12
TO 1	29	15	29.063	27.62	6,06	10,00		0.87
December	6	5	29.153	40.86	4.07	7.00	3.06	0.83
	13	4	29.335	31.33	7.01	9.00	1.09	1.02
	20	2	29,326	13.81	5.02	9.04	2.07	1.98
	27	1	29.379	15 33	5.05	9.03	3.04	1.34
fraction	3.1	12	29.255	39 75	6.00	10,00	3.02	2.05

Table giving for each week the number of new cases of diphtheria in the city, the average barometric pressure, thermometer [F.], velocity of wind, amount of cloud, ozone, and rainfall. Cloud and ozone marked on scale

Of the fatal cases, the modes or causes of death were as follows:

Cardiac paralysis .  Laryngeal stenosis . Septicæmia .  Laryngeal stenosis and septicæmia .  Rupture of abscess .  Hæmorrhage (from bowels) .	29 " 27 " 4 " I case.
Total	

that, without exception, cases in which blisters had took place. One of these proved fatal. been raised progressed towards recovery more slowly, and were more liable to septicæmia than those not so Michigan Asylum for the Insane, for kindly giving authorities had recommended that vesicants be used, the city. I permitted my patients to be so treated, though I Kalamazoo, January 10, 1886.

years 3, 4 and 6, losing four at each of those ages. did not recommend it, but I became thoroughly con-

think those who have tried it here will not try it again. For laryngeal trouble, however, some have thought they were aided by the vapor of turpentine. I used it in one case with good results. The turpentine was put into boiling water, and the patient inhaled the steam. Noticing the tendency towards cardiac paralysis, from the first I gave all my cases digitalis, and after the fever began to subside I administered tr. nucis vomicæ. Locally I used a solution of carbolic acid or permanganate of potassium. Though I did not try it, I think the mixture of solutions of corrosive sublimate and permanganate of potash would do good; better, indeed, than any other application I have seen suggested. Personally I am convinced that ice applications are detrimental, but I allow the patients to drink water freely. Alcohol is good, but it must be used with caution. I am convinced that we must study to prescribe such medicines as will not disgust the patients, as not infrequently serious results have followed the resistance of the patient against taking the drug prescribed.

The patient's strength must be kept up, not by stimulants, but by food. When all else fails I depend on milk, given, if necessary, in dram doses every half hour. Since most of the cases occurred among the poor and more ignorant population, where they did not receive, and could not get competent nursing, it was the opinion of the attending physicians that if we had had a city hospital where such patients could be cared for, from forty to fifty per cent. of the fatal cases would have been saved, and the whole number of cases would have been diminished.

In what proportion of the cases did paralytic symptoms develop? I could not tell exactly, as physicians made no report of paralysis except incicidentally. I knew, however, of a dozen cases out So far as known, of the cases reported one had the of the 331. There probably were more. One of membrane only in the larynx. Three or four females these was almost entirely paralyzed, and afterwards had the membranes over the genitals. Several had recovered. In two cases at least, the paralysis dethe membrane upon abrasions of the skin. I think veloped certainly a month after apparent recovery

treated. In several cases the parents had applied me free access to his weather record. The observakerosene oil to the neck externally, before the physi- tions were made by Mr. Munn at the Asylum, which cian was called. At first, knowing that some good is situated upon the hill in the southwest portion of

### BRAIN TUMORS.1

## BY PHILIP ZENNER, M.D.,

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Our present knowledge of cerebral localization lends additional interest to the study of all cerebral lesions. This statement is least applicable to neoplasms. They have less value than other kinds of lesions in forwarding our knowledge of localization. This is the more to be regretted, as it seems probable that brain tumors will soon be relegated, in pressure. part at least, to the domain of surgery.

latent, while small growths may produce marked symptoms. In one instance, a tumor may produce symptoms, and in another not, when in precisely the same part, and the symptoms may be altogether deceptive. The factors which determine the symptoms

produced by a tumor are:

Its location.

Its size.

Its character, density, vascularity, etc.

The rapidity and manner of its growth.

These bear a certain relation to the kind of tumor. Cysticerci are of a soft consistence, and never destroy the brain substance. Carcinoma, tubercles and some others usually destroy neighboring nerve tissue. Too many elements, however, come in play to enable us to diagnosticate the kind of tumor from the cerebral symptoms alone. Brain tumors cause presinfluence on the nervous tissue. They may destroy brain tissue, produce softening of the parts around, or cause symptoms by direct compression. In order to produce the local compression the tumor must be harder than the brain substance. The compressing effects also depend on the locality of the tumor. If it be on the convexity, the brain may accommodate itself to the growth without sustaining any local injury while at the base, where each part is to a certain extent fixed by the cranial nerves and blood-vessels direct local compression is easily produced. Each nerve found at the base is represented by a comparatively large area of the cortex at the convexity, so that a considerable lesion in the latter locality is a greater local significance than the headaches. requisite to produce the symptoms made by a small one in the former. Furthermore, it appears that when a part of the cortex has been destroyed another part will sometimes perform its functions. The tissues next to the bone or rigid membrane are, cateris paribus, compressed to a greater extent than the cen-from that due to the stomach by its occurrence tral part of the cerebral lobe, which is everywhere equally, whether that viscus be full or empty, and by surrounded by soft brain substance. Paralysis of the olfactory nerves is often produced by compression of the nerves between the brain and frontal bone, so nolence, etc., usually occur at a late period though that loss of smell occurs with brain tumors quite in- they are rarely absent. dependent of their locality. The third, sixth, and other cranial nerves have also been affected in the same manner.

1 Read before the Cincinnati Academy of Medicine, on Feb. 1, 1886.

The heightened intra-cranial pressure may also paralyze the nerves by causing them to be constricted where they pass through the tightly stretched dura mater, or to be compressed by distended bloodvessels. It may even produce hemiplegia or other focal symptoms quite regardless of the seat of the tumor. Such occurrences occasion great confusion. and hence it is well for us to remember this rule: That local or localizing symptoms are the less valuable for the purpose of making a local diagnosis the more marked are the symptoms of heightened intra-cranial

The most prominent symptoms of heightened intra-Large and even multiple tumors may be almost cranial pressure are headache, convulsions, double optic neuritis, vertigo, vomiting, changes in the pulse and in the mental condition. But even these symptoms have a certain local significance. The headache points to the direct or indirect involvement of the dura mater, the convulsions to the motor areas of the brain, the mental symptoms to the cortex, the vertigo to the cerebellum, vomiting and alterations in the pulse to the medulla. Each of these parts may become affected when there is increase of the general pressure. Headache occurs most frequently when The extent of destruction or softening of nervous the sensitive dura mater is most easily affected. convulsions when the motor area is most readily

These symptoms occur most easily when rapid changes occur in the tumor, for instance, rapid growth or transient fluctuations.

Headache is the most common and usually the earliest symptom. The pain is frequently of the greatest intensity, often driving the subject wild. It is then sure by general increased pressure, and by their direct most likely to occur in paroxysms, though it not uncommon to find even the milder headache cease altogether for a longer or shorter period of time. If the pain be quite circumscribed, and constantly in one place, it is likely to point to the seat of the tumor. Usually the pain is not circumscribed, and, except neuralgia of the fifth, is of no value in locating the tumor. It is a singular fact that the headache often diminishes or disappears when paralytic or other focal symptoms occur. The growth of the tumor is probably very slow in those cases in which no headache occurs.

Convulsions are a less common symptom than headache, but occur in nearly half the cases. They have

Double optic neuritis is also a common general symptom, and of all is the most nearly pathognomonic. It probably occurs in the majority of cases, but is sometimes a transient condition.

Vomiting due to brain tumor is usually distinguished from that due to the stomach by its occurrence the slight subjective symptoms accompanying it.

Mental symptoms, apathy, loss of memory, som-

Intercurrent apoplectic attacks are usually due to hæmorrhage in or about the tumor.

The chief localizing symptoms of brain tumors are paralysis of the cranial nerves.

Tumors of the brain must be diagnosticated from.

conditions will lead to a correct diagnosis.

In the medical treatment, apart from opium as a narcotic, iodide of potassium is by far the most valuable drug. It has been said to effect cures in tumors which were not syphilitic. But it seems probable that in the near future operative interference will be often resorted to in these cases, and it is worthy to consider farther this aspect of treatment. As an operation for the removal of a tumor is chiefly thought of in reference to those on the convexity, I may here consider what symptoms might assist us to a proper diagnosis of these tumors. Among these may be mentioned headache, monoplegia, aphasia and hemiopia. These symptoms under very favorable circumstances may lead us to correct local diagnosis of tumors at the convexity. But we must never forget the rule that the value of localizing symptoms is in inverse proportion to the indications of heightened intra-cranial pressure. Wernicke has suggested tapping the ventricles for the purpose of reducing the intra-cranial pressure.

A symptom very common and frequent is blindness from atrophy of the optic nerves, caused by pressure of the accumulations of the third ventricle fossa of the skull, most frequently tumor of the line of the lower lip, cutting through the soft tissues cerebellum. Therefore, blindness setting in rapidly and at an early period is a symptom of much localizing value; and not only is it of diagnostic significance, but provided tapping of the distended ventricles should prove serviceable, it would be a valuable guide in treatment. It would indicate to us cases which could at least palliate the symptoms which it would be a great triumph to relieve. Those symptoms are most prominently blindness, often deafness, some headache and other general symptoms of in-

# A CASE OF SARCOMA OF THE LOWER JAW; SUCCESSFUL REMOVAL.1

BY OSCAR J. COSKERY, M.D.,

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Peter King, colored, aged 15, born in Maryland, was admitted into the City Hospital, Baltimore, on March 31, 1882. His family history was good. His personal history was as follows: Between two and three years ago his mother had first called his attention to a generally enlarged condition of the of tha part of the face. This became more and more apparent, the growth was recognized by his medical attendant to be confined to the inferior maxilla, and, as it spread in every direction, the teeth had been displaced and the tongue pushed well over to the right. About two months before he came under my observation an enlarged gland had made its appearance in the left submaxillary triangle, which

abscess and meningitis, but usually other concomitant frightened the patient, and decided him to have all removed if possible.



Fig. 1.-Cast of face and head before operation,

On April 15, 1882, the patient being fully under which is again usually due to a tumor in the posterior chloroform, an incision was commenced in the median to below the chin. From this point the cut was continued over the most prominent portion of the tumor, first outwardly as far as the angle of the jaw, and then upwards to its point of articulation with the temporal bone. The flap being dissected off, was turned up, and the growth exposed. In this step of the operation the facial artery was cut, and required ligation. The right median incisor was now drawn, and the metacarpal saw applied to the jaw just to the right of the symphysis menti. As soon as the bone was sawn through it was seized in the left hand, and its soft connections with the floor of the mouth quickly severed. Then, without attempting the more dangerous task of disarticulating the head of the bone with the knife, strong traction was made upon it, and the neck gave way. The bone forceps were applied and the head of the bone, together with the remainder of the neck, were wrenched from position.



Fig. : law after removal. In most places only a thin shell of bone,

<sup>&</sup>lt;sup>4</sup>Read in the Section of Dental and Oral Surgery, at the Thirty-Six o Annual Meeting of the American Medi al Association.

Up to this time the hæmorrhage had not been very great. Upon cutting down upon the enlarged gland and enucleating it (which was done with ease), very profuse venous bleeding came on, and it was found that a large branch of the external jugular had been cut. The vessel required ligation at both ends. The skin flap was then brought into position, room near the angle of the jaw being left for drainage, and dry lint was applied upon the wound, a bandage

The boy did well from the first. To keep down the fetor of the discharge "Listerine" was used throughout as a mouth wash. The cut united kindly, and the patient left the hospital on May 6, 1882, or by a progressive contraction of the vessels of the skin. exactly twenty-one days after operation, with only one suppurating point (that left for drainage), and with very little deformity.



Fig. .- Half view of boy three years and a quarter after operation.

Results of microscopic investigation (made and reported upon by Dr. Aug. Hoen, of Waverly, Baltimore Co., Md.): "Microscopically this tumor is he is positive that still another factor, viz., increase made up mostly of a dense white fibrous stroma, of heat-formation, plays an important rôle in the staining badly with carmine; in some places this causation agencies of fever. The increased producstroma presents dilatations of its fibres, which dilation of urea and of carbonic acid gas furnish a satistations are filled with elements of the spindle variety factory proof for the existence of this increased heatonly; in some of the dilatations they are very closely, formation. As to the true significance of this in others loosely packed. The cells all contain a intensified combusition process, we require a good single oval nucleus, surrounded by a moderate amount deal more of detailed knowledge. Possibly it is of protoplasm. The fate of the cells seems to be caused simply by an overheating, as it were, following their gradual transformation into the fibrous stroma upon the retention of heat. above mentioned, constituting a true fibroid sarcoma, or recurrent fibroid of Paget. Points of degenera-shown that if animals are subjected to an artificially tion could not be discovered in any portion of the effected rise of temperature, they give off more urea tumor, the tendency of the cellular seeming to be and carbonic acid. Maragliano has observed the

able to get photographs of the boy. From the time warm baths, he left the hospital he has been making a living as a nutrition seems to be good.

# MEDICAL PROGRESS.

THE PHYSIO-PATHOLOGY OF FEVER. — MARAGLIANO has studied during the last three years the behavior of the vessels of the skin in beginning and in receding fever, with the hydroplethysmograph of Mosso, often eight to ten hours without interruption. A first series of observations was made on patients who, in the course of the experiments, were spontaneously attacked by fever. The main results of these observations were the following:

1. A febrile temperature was found to be preceded

2. During the height of contraction-when the vessels attain their minimum lumen-we find the climax of the febrile temperature.

3. As long as the temperature remains at its highest level the contraction of the vessels persists.

A second series of experiments was instituted on patients in whom the fever set in after a previous reduction of the temperature to normal by antipyrin, kairine, and thalline. In these experiments Maragliano observed the same phenomena as stated above.

In a third series of experiments patients were used in whom the febrile temperature fell to normal during the experiment without the exhibition of antipyretics. The following results were here obtained: 1. The fever attack is preceded by a progressive dilatation of the vessels of the skin. 2. This dilatation increases simultaneously with the sinking of the temperature, and reaches its maximum when apyrexia

These investigations prove the old theory of fever as advanced by Traube. Basing on the results of his calimetric examinations, Maragliano feels certain that in fever we have to deal with a retention of heat, with concomitant ischæmia of the vessels, and in defervescence, with an increased thermal discharge, with a concomitant vascular dilatation. Still our author does not by any means believe that the retention of heat is the sole cause for the fever. On the contrary,

Naunyn, Lehmann, and others have recently P. S. Since the above was written, I have been heightened temperature, such as in consequence of

At any rate, there is no doubt that an increase in farm hand. The side view shows the fibroid thick- the heat production takes place, no matter what causes ening (cheloid?) so often noticed in the scars of the latter might have. Therefore we can conclude colored people. As will be observed, his general that the rise of temperature in fever is caused by both a heat retention and an increased heat production. other still unknown factors.

connection on various antipyretic drugs are equally peritoneal.

interesting. Mosso's hydroplethysmograph and Winternitz's cal- absorbed.

orimeter were as follows: dividuals a considerable vascular dilatation.

2. They cause also an increased discharge of

3. They produce a fall in the excreted carbonic acid gas.

A second series with these drugs was made on fever patients, and gave the following results:

1. The antipyretic effects of these drugs are caused by a vascular dilatation. When their influence is extemperature ensue.

2. During the period of their activity increased discharge of heat invariably takes place. After their through the abdominal wall, generally in the iliac fossa, exhaustion the heat discharge decreases, and the tem- and the incision should then be ample, and free perature rises again.

3. The influence to antipyretic drugs is intimately within the economy.

researches, we can advance the theory that antipy opening must be made in the vagina, and a drainage retic remedies act by being able to eliminate the tube carried through from the abdominal wound into two most important pathogenetic causes of fever. In the vagina. This drainage tube may have to be other words, they prevent vascular contraction, and worn for months. In making this incision, care should the thus resulting storing up of animal heat, and in- be taken not to wound the bladder. crease the heat discharge; besides, they combat successfully the increase of heat formation by reducing through the abdominal wall does not differ from, and the intensity of the oxidizing processes of the economy. is no more dangerous than, the same operation else-

probably caused by an influence exerted on the inner- not an "abdominal section" or a "laparotomy," in vation of the vascular system and the so-called trophic the sense that these terms are now used to indicate nerves. Possibly their action affects directly the the surgical opening of the peritoneal cavity. medullary centres, which, according to the latest re-

the close of a paper on this subject Dr. PAUL F. MUNDÉ draws the following conclusions:

1. Pelvic abscess in the female is not very common, in proportion to the great frequency of pelvic than ten per cent. of all cases, the majority of exudations terminating in spontaneous absorption.

2. Pelvic abscess may be either extra-peritoneal, the result of cellulitis (by far the most common va-cover; at least the mortality is small.-American riety), or intra-peritoneal, the consequence of pelvic Journal of Obstetrics, February, 1886. peritonitis. If intra-peritoneal, the adhesive inflammation between pelvic viscera and intestines may so extra peritoneal.

Abscess of the ovary and pyo-salpinx do not be-

This does, not of course, exclude the presence of do not fall under the same therapeutic rules, unless when, by agglutination to the abdominal wall or The experiments and observations made in this to Douglas' pouch, they become virtually extra-

3. Small deep-seated pelvic abscess, not exceeding The first series of experiments were made with a capacity of two ounces and minute multiple abkairine, antipyrin, thalline, the salts of quinine, and scesses in the cellular tissue, can often be permanently salicylate of sodium, on individuals who were per- cured by evacuating the pus thoroughly with the feetly afebrile and healthy. The results obtained with aspirator. The surrounding exudation is then rapidly

4. About one-half of the abscesses open spontane-1. All employed antipyretics cause in apyretic in- ously into the vagina, rectum, bladder, or through the abdominal wall and ischiatic fossa. These cases may gradually recover without treatment, or the sinuses may persist until closed by surgical interference.

> 5. Abscesses containing more than two ounces of pus should be opened by free incision along an exploring needle or grooved director, cleared of débris by finger or blunt curette, and drained and irrigated, if necessary, through a drainage tube.

6. This incision should be made at the spot where hausted, vascular contraction and subsequent rise of the pus points most distinctly, which is usually the vaginal vault.

7. In a certain number of cases the pus points drainage should be secured.

8. When the pus has burrowed deep into the pelvic connected with a reduction of the oxidizing processes cavity, and a probe can be passed from the abdominal incision down to the vaginal roof, mere abdomino-As a general conclusion to Maragliano's valuable cutaneous drainage will not suffice, and a counter-

9. The opening of a pelvic abscess which points This double action of the antipyretic drugs is where on the cutaneous surface of the body. It is

10. Chronic pelvic abscesses, which have burst searches of Fano, exert a great influence on the nu-spontaneously, and have discharged through the trition of tissues.—Therapeutic Gazette, Jan. 15, 1886. vagina, rectum, or elsewhere for months or years, are exceedingly difficult to cure. This is particularly the TREATMENT OF PELVIC ABSCESS IN WOMEN.—At case when the opening is high up in the rectum. A counter-opening in the vagina, or enlarging the opening if there situated, the curette, stimulant irrigation, etc., may occasionally succeed, but usually fail.

11. A perityphlitic abscess may point through the exudations, and probably does not occur in more abdominal wall, and simulate a pelvic abscess proper. Aspiration will settle the diagnosis; the treatment is

12. The majority of cases of pelvic abscess re-

THE USE OF UTERINE DILATOR IN THE TREATseal the abscess-cavity as to render it practically MENT OF DYSMENORRHEA, AND AS AN AID IN INTRA-UTERINE THERAPEUSIS. - At the meeting of the Alumni Association of the Woman's Hospital of long in the catagory of "pelvic abseess" proper, and New York, on January 20, Dr. W. GILL WYLIE

dysmenorrhea was ordinarily dependent on a hyperes-modified, mainly by curving the tips. As for the means of glycerin tampons and hot-water injections before resorting to treatment. In simple cases of and then divulsing under an amesthetic. It was after who was only 18 years of age when she died, had this process that he placed his drain tubes in the suffered for three years from dark skin, progressive stem. The tubes, being of hard-rubber, could be dark-colored urine, but this had been habitual with ation. He prefers this method to Goodell's rapid cythemia, but the red corpuscles were deficient in dilatation, because by this the cervical tissues are apt hemoglobin. After death, which resulted from an after the menopause, where on passing the sound, he eral at intervals, the spleen was found to weigh 66 determines a similar hyperesthesia at about the in- ounces. The supra-renal capsules weighed 18 grains

that the aim of slight dilatation was accomplished as the case may be regarded as one of Addison's well by Wylie's dilator as by graduated conical sounds. disease, due to simple atrophy of the supra renal He had also noticed the utility of dilatation after the capsules, of which Hadden, Coupland, and Barlow menopause, in cases where there existed slight dis- have published examples. But the remarkable feature charge, and nervousness, and stenosis at internal os. of this case is that the father died at the age of 37 For thorough dilatation he preferred Sims' trivalve with the same symptoms, and was found to have a dilator, occasionally paving the way for this by Wylie's. spleen which weighed 7<sup>1</sup>/<sub>2</sub> pounds; while a brother, In a personal case, which he related, Wylie's dilator still alive, presents the same series of phenomena. had proved too weak to stand the applied pressure. This coincidence suggests that the atrophy of the He believed that, through the trivalve dilator, the capsules has been in each case congenital—a view effect was more thorough, and less harm was likely to which is supported by the microscopical appearances be done, owing to the screw attachment for regulating of the capsules, in which no trace of inflammatory

a week during the intermenstrual period.

mation was at the bottom of every case. Every case these enormous spleens depend upon the long concanal had better be left religiously alone. The uterine — The Lancet, January 23, 1886. mucous membrane is over-treated when perinterine inflammation is at the bottom of symptoms.

in regard to permanency of results, and as to how mends in the Deutsche Medizinal Zeitung of November rapid the dilatation should be.

read a paper on this subject. The reader demon- hyperesthesia, the prime factor, is not likely to restrated his modified Sims' dilator, cervical protector, turn. Thought that very few gynecologists would and hard-rubber cervical drain tubes, instruments agree with Dr. Bache Emmet. He stated that Sims which he was in the habit of using in dysmenorrhea, gave up the trivalve and screw long before he died, and for intrauterine medication. He thought that and used the instrument which he (the speaker) had thetic state of the cervical and uterine mucous mem- danger from dilatation, there is none if proper antibrane, and the aim of the treatment was to allay this. sepsis be resorted to. The objection to conical dilators He urged the necessity of getting rid of all peri- is that they are apt not to dilate where we wish, at uterine tenderness, and securing a movable uterus by the internal os.—Am. Jour. of Obstetrics, Feb., 1886.

SPLENIC HYPERTROPHY WITH ATROPHY OF ADREdysmenorrhea, gentle dilatation, repeated once a week NALS - DR. ROBERT SAUNDBY, Physician to the for a while, accompanied by tonics, ordinarily sufficed. Birmingham General Hospital, has just recorded, in Where there existed a spasmodic element, however, the Transactions of the Pathological Society, a very and where there existed sterility, he was in the habit remarkable case of hypertrophy of the spleen with of incising the cervix posteriorly down to the vagina, atrophy of the supra-renal capsules. A young lady canal, above the internal os, using them instead of a anæmia, and gradual splenic enlargement. She passed heated and given the desired curve. Thorough anti- her since birth. This dark color was due to indican. sepsis should characterize every step of this oper. There was never any leucocythæmia or marked oligoto be torn. He has also found dilatation of value attack of vomiting, of which the patient had had sevand 10 grains respectively, and under the microscope Dr. W. E. Moseley, of Baltimore, did not believe showed simple atrophy of their substance. So far action was observed. The enormous splenic enlarge-Dr. Goffe thought that dilatation was especially ment present in all three cases distinguishes them from of value in case of sterility. He much preferred, to ordinary cases of Addison's disease, in which hyperrapid dilatation under ether, gradual dilatation once trophy of the spleen, though frequently observed, reaches very moderate dimensions. The fact that there Dr. B. McE. Emmer stated that he did not believe should be this tendency, even in ordinary cases, to in obstructive dysmenorrhea, but that pelvic inflam enlargement, indicates, in Dr. Saundby's opinion, that of dysmenorrhea was better treated by local applica-tinuance and extreme degree of the capsular affection. tions to the vaginal vault, and constitutional treat- It is noteworthy that Dr. Saundby could discover no ment, than by dilatation, excepting, of course, where change in the structure of the semilunar ganglia, and stenosis, the result of caustic applications, etc., ex- that, with the exception of pigmentary deposits, the isted. As for intrauterine therapeusis, the uterine organs generally were free from obvious alterations.

INJECTIONS OF CALOMEL IN SYPHILIS. - DR. NEIS-Dr. Porter, of Providence, asked for information SER, Professor at the University of Breslau, recom-30, his method of employing calomel hypodermically. DR. WYLLE, in closing, said that the dysmenorrhea He uses the following formula: R Hydr. chlor. might return with impaired health, but that in ten mit., Sod. chlor., aa 5 parts; Aquae dest., 50 parts; years of experience he had not had a failure. The and injects a syringeful twice every two weeks, or once every week, into the gluteal region, penetrating aginous, and osseous growths sprang from the intedeeply into the tissues. Neisser claims that on action of the joint, and some were found free in the count of the long-lasting and yet but very slowly-pro- joint. The head and neck of the scapula had disalongside of the inunction-cure to be regarded as atrophy. The spinal cord showed sclerosis of the and not rarely produce infiltrations and abscesses, poliomyelitis of the lumbar cord was clearly the cause as an addition to the food or taken alone.

Germany are about one-third longer than those used in America, and are buried in the tissues to their full length. It is claimed that the danger of forming an once been under his care, was a most remarkable abscess is lessened by entering the lowest strata of the connective tissue, or even the muscles themselves. The method as practised in America, however, gives vagus-root, was very interesting, and lent support to such satisfactory results that there is no occasion to the theory he had put forward.—British Medical deviate from it. - Therapeutic Gaz., January 15, 1886. Journal, Dec. 5, 1885.

JOINT-DISEASE IN LOCOMOTOR ATAXIA.—At the meeting of the Pathological Society of London, on December 1st, Dr. W. B. HADDEN read notes of two cases of joint disease in locomotor ataxy. 1. A man aged 50, three years before admission, began to suffer from a swelling of the left knee; the swelling, after extending down to the ankle, subsided, but recurred in six months. Two years before admission, ulceration occurred in the under surface of the right great toe. Symptoms of locomotor ataxy had existed for three years. On admission, in addition to the lesion already mentioned, there was a perforating ulcer of the right foot. The femur was displaced forwards and outwards, the tibia backwards and inwards; the patellar was much enlarged, and there was a bony plate below it; pus was withdrawn from the knee-joint by aspiration. Amputation was subsequently performed; and, after two attacks of secondary hæmorrhage, he recovered. Along the margins of the articular surfaces were numerous bony outgrowths, but the head of the tibia was the only part affected by atrophy; in the subsynovial tissue in front of the lower end of the femur was some new bone. The only change noticed in the peripheral nerves was some (doubtful) thickening of the perineurium in the internal popliteal. 2. A man who had suffered for many years from severe gastric crises. Six years before he came under observation, the left contained some bone. Many pedunculated, cartily vantages. - New York Med. Jour., February 6, 1886.

ceeding absorption of the mercury, this method is appeared, and the head of the humerus showed pure the most efficacious and energetic treatment of posterior columns, extending into the lateral columns, syphilis. He has treated one hundred and twenty- and also the anterior root-zone. The postero-lateral two cases (fifty-four males and sixty-eight females) groups of cells at the level of the eighth cervical with these calomel injections, and feels quite gratified nerve on the left side had disappeared, and nearly at the results. In rebellious and relapsing cases all the motor cells at the level of the third lumbar this method gave especially favorable results. The pair of nerves. In the first case, the knee was in a objections that can be urged against these calomel condition of osteo-arthritis; the shoulder in the secinjections are that they occasion a good deal of pain, and was typical of Charcot's joint-disease. The which untoward effects, however, can all be avoided of the atrophy of the tibial muscles; but whether by an ample ingestion of chloride of sodium, either the atrophy of the motor cells in the cervical region was the cause of the joint-lesion, or secondary, was The nozzles of the hypodermic syringes used in doubtful. The condition of the medulla oblongata lent some support to Dr. Buzzard's theory.

Dr. Buzzard said that the second case, which had example of gastric crises. The presence of sclerosis in the medulla oblongata in close relation with the

ALBUMINURIA IN STRANGULATED HERNIA. - J. Englisch, in the Centralbl. für Chir., Nov., 1855. publishes the history of twenty-nine cases of strangulated hernia treated by taxis, and of twenty-five operated on. In the first series he found albuminuria ten times in the urine, in the second twenty-two times. In thirteen cases of hernia, accompanied by inflammation, albuminuria appeared twice. Albuminuria appears as soon as intestinal occlusion reaches a certain period, and presents certain lesions; the more marked is strangulation, the more evident is albuminuria. In partially strangulated hernia it is barely present. When the omentum and appendices are strangulated, or a filled hernial sac is inflammed, albuminuria is altogether absent. When there is gangrene of the intestine, albuminuria is very evident; it decreases slightly after operation. In fatal cases it is more abundant. Urine decreases in proportion as albumin increases. English attributes death in strangulated hernia to renal disturbance, in those cases where the necropsy does not furnish any indi-The albumin precludes any but a slight attempt at taxis, and herniotomy ought to be preferred. . London Medical Record, Jan. 15, 1886.

Antipurin as a Hæmostatic.—Dr. E. Casetti, (Raccoglitore Medico, August, 1885; Gazzetta Degli Ospitale, September 30, 1885; Nouveaux Remèdes, January 15, 1886) is said to have used four and five shoulder became swollen, and subsequently pus was per cent. solutions of antipyrin successfully as a discharged. When admitted, the patient presented bemostatic in a case of epistaxis, in one of resection well-marked symptoms of locomotor ataxy, and there of the elbow, and in one of removal of a nævus. was atrophy of the anterior group of tibial muscles. He thinks it superior to perchloride of iron in not The left shoulder joint was disorganized, and the incrusting the surfaces, to the actual cautery in not humerus shortened. About the right elbow and leaving an eschar, and to ergotin in not being poisright knee-joints were some bony outgrowths, and onous in ordinary quantities. Its antipyretic effect, the capsule of the shoulder joint was dilated, and and probably its antiseptic action, are additional ad-

### THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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TOURNAL OF THE AMERICAN MEDICAL ASSOCIATION. No. 65 RANOOLPH STREET,

# SATURDAY, FEBRUARY 27, 1886.

THE AMERICAN MEDICAL ASSOCIATION-IS IT DESIRABLE TO MAKE MATERIAL CHANGES IN THE PLAN OF ITS ORGANIZATION, PARTICULARLY IN THE DIRECTION OF ASSIMILATING IT TO THAT OF THE BRITISH ASSOCIATION WITH BRANCHES?

6, 1886, over the signature of "Branch," inviting On the other hand, it was claimed by a majority of attention to this question, has elicited several inter- the Committee and others that the creation of a esting letters from well known members of the Asso- National Organization with all governing authority ciation, which we give in the department of Domestic vested in a limited number of members designated as Correspondence in the present number of The Jour-distinctively Fellows or members of Council, elected NAL. These letters contain many suggestions both mainly by the Association itself, and eligible to refor and against material changes that are worthy of election at stated intervals, was not in harmony with careful thought.

to most of the present active members of the profes- as to individuals and locations. sion, that the main question involved in this discussion and general organization of the profession could be would be constantly acting as a powerful incentive founded on a proper application of the principle of to the formation of such local societies in every part from the State to the National as the union of the body of the regular profession would become em-

whole; or whether the National Organization should be self-constituted, with provision for a broad nominal membership and a Council of lesser numbers invested with the whole management of the affairs of the Association, elected by itself, and consequently capable of self-perpetuation. The latter is the essential principle on which the British Association is founded, modified only by the formation of subordinate Branches, each permitted to elect one or more members of the general governing Council.

But the Committee appointed in 1846 to report a plan of permanent organization at the next meeting, after very careful consideration, rejected this principle and reported a plan of organization based entirely upon the representative principle, with a uniform numerical ratio to limit the number of representatives, and entrusting the entire control of the business of the Association to the regularly elected delegates that assembled each year, instead of to any more limited or select Council. It was claimed by those who advocated essentially the plan of the British Association, that the plan recommended by the Committee, having no provision for the election of a governing Council or any considerable number of members, but being dependent entirely on delegates elected annually by State and local Societies, would A letter in the issue of this JOURNAL for February lack stability and be liable soon to crumble to pieces. the modes of thought of our people, and would be It may appear to our correspondents, and, indeed, likely soon to engender jealousies and rivalries both

But much greater emphasis was placed upon the is new, or broached now for the first time in connec- lack in such an organization of any active and powtion with the organization of the American Medical erful encouragement to the formation and support of Association. Such a supposition, however, is entirely State and more local organizations. While simple erroneous, for it engaged the attention of the Com- membership in the National Organization would be mittee appointed by the National Medical Convention easy of attainment, without reference to membership assembled in 1846, and which reported the plan of in any local or State Society, one of the strongest organization of the permanent Association to the incentives to the formation and active support of adjourned meeting in the following year in Philadel- such societies would be lost: whereas, if memberphia, and elicited full discussion both in the Conven-ship in the National Association could be obtained tion and the first Session of the Association. The only through membership in, and election as a delereal question was, and still is, whether an efficient gate by, some regularly organized local Society, it representation from local organizations to State, and of our country; until at no distant time the great

braced in social organizations-city, town, county, staffs of hospitals, etc., to gain admittance to the district and State, and from which delegates duly National Association through the same channels as elected would constitute the National Society and the rest of the profession. To those who have been make it truly representative of the profession of the careful observers of the progress of events the change United States. It is hardly necessary to state that has not been without good results. We will reserve the views of the Committee prevailed, and the plan the further consideration of this topic for the next of organization proposed was adopted with but little issue of The JOURNAL. He is most wise who learns alteration. As there were at that time but few State most accurately the lessons of the past. Medical Societies in existence or in active operation in the States, provision was made for the admission of delegates from all legitimate medical societies, and institutions, including medical colleges, hospitals, asylums and infirmaries.

of the profession, by the successful establishment of rence of cerebro-spinal meningitis. Immermann and the National Association, proved so efficient, that Heller, out of 30 cases of pneumonia, observed this ten years had not elapsed before State Societies which complication 9 times. In these the meningeal inhad before been allowed to die were reorganized, and flammation was of the epidemic variety, and hence new ones organized in States where none had existed these observers accounted for the occurrence of this before, until regular State Societies and many of a complication as a mere coincidence without any more local character were in active operation in etiological connection. nearly every State in the Union. And the same They are supported in this view by Mende and active influence in sustaining and extending the Githens. Verneuil and Surugue, on the other hand, ation and become enrolled as permanent members, meningitis as a complication of pneumonia. without any help from either county or State Socie Nauwerck, in a case of meningeal inflammation requiring the members of college faculties and the inflammation." Jürgensen, in his exhaustive paper

### MENINGITIS AS A COMPLICATION OF PNEUMONIA.

The testimony of competent observers has placed beyond doubt the fact that lobar pneumonia is oc-But the impulse given to the work of organization casionally, although rarely, complicated by the occur-

affiliated local societies continues until the present explained the occurrence of the complication on the time. The progress of events, however, soon devel- ground of the intimate anatomico-physiological relaoped the fact that the provision in the constitution of tionship existing between the lungs and the mem-the faculty of each medical college, and one from understand their explanation it should be stated that the medical staff of each hospital, lunatic asylum, they, in accord with other observers, recognize the dispensary, etc., not only gave the medical men con- occurrence of a meningitis in the course of pneumonia needed with those institutions a much larger number which is not epidemic, but is a simple inflammation. of delegates, in proportion to the whole number en- This is the variety of the disease which, according to gaged in them, than were allowed to the society Huguenin occurs with considerable frequency at organizations, but it removed one of the strong Zürich, the field of his labors. In Ziemssen's Cyclomotives for them to become members and efficient pædia of the Practice of Medicine, vol. 12, page 621, members in the societies in their own State. The he states that the percentage given by Chvostek, at fact that these men could go directly as (in one Vienna, 4 out of 220 cases, is lower than that in sense) self-elected delegates to the National Organiz- Zürich. Huguenin has never witnessed epidemic

ties, certainly removed one strong inducement for which occurred in the course of croupous pneumonia, them to give active support to the latter. Yet by discovered thrombosis of the pulmonary artery, and the public positions they held, it was claimed that as hence was led to conclude the complication was the teachers, and hospital physicians and surgeons, they result of emboli. It is doubtless in reference to this were preeminently qualified to impart most interest discovery of Nauwerck's that Huguenin says: "In to all scientific work in the societies of their own two of the cases in which the pneumonia was found localities. But whether conscious of the influence in the stage of suppuration, friable thrombi were found of this relation upon themselves or not, the fact in the pulmonary veins; indeed, in one case, even the became more and more apparent to others, until it thrombi were partially broken down by suppuration. eventually led to an amendment of the constitution. The supposition seems warrantable that puriform by which the sending of delegates was restricted to broken down material gets into the arterial current, regularly organized society organizations, thereby is carried by it to the pia, and there sets up purulent

on croupous pneumonia in the fifth volume of Ziems- their presence has been demonstrated microscopically

The latest contribution to this subject comes from last variety. Warsaw and is by Professor Popoff. In 90 cases of Popoff's conclusions are interesting and, if one be lobar pneumonia he has had 3 complicated by men-inclined to endorse unreservedly the germ theory, ingitis. Two of the 3 died and were examined post it is satisfactory. We are indebted for these facts mortem. The pneumonia was in the stage of red and concerning Popoff's researches to the Berliner Klingray hepatization and the meningitis was suppurative, ische Wochenschrift, vol. 2, 1886. being in one cerebro-spinal and in the other confined to the convexity. In all 3 cases the pneumonia RECENT PROGRESS IN THE EXTRACTION OF was protracted and the meningitis occurred from the twelfth to the fourteenth day, and in all the symptoms At the meeting of the Académie de Médecine, of with his 3 make 37 in all. He finds that 27 were latter for special cases. examples of the inflammation limited to the convexity; M. Panas gives the following rules for operating: cerebro-spinal and not alone cerebral.

sen's work, recognizes the occurrence of this compli- in the mininges as well as in other organs. Bright's cation, but states that in his experience at Kiel the disease and other cachexia may be of influence in diagnosis of it was found to be extremely difficult. rendering the meninges particularly sensitive to the This he attributes to the fact that the meningitis is deleterious influence of the pneumonic poison. Poplikely to declare itself only by "a single group of symp- off distinguishes three types of this disease: First, toms." He narrates a case in which the complica- the epidemic variety, which, however, has nothing in tion was shown only by a decided and obstinate rise common with the pneumonia; second, that in which of temperature which would not yield either to enor- the meningitis is an accidental complication of the mous doses of quinine or the repeated resort to the pulmonary affection and is due to embolism or cold bath. In contrast to these foregoing Wunder- otitis interna, etc.; thirdly, the metastatic form, which lich, Willich and Sielewicz have noted pneumonia as is caused by the same etiological factor as is the a complication of cerebro-spinal meningitis. pneumonia. He groups his own cases among this

# CATARACT.

due to the complication were marked, such as head- Paris, on January 5, M. Panas read an interesting ache, stiffness of the neck, delirium, etc. In the final paper on "The Recent Progress in the Operation of stages loss of sensibility to pain, inability of the Extraction of Cataract." The first factor in the pupils to react to light were noted. All set in with progress that has been made is, he thinks, the introchills and headache. In all the spleen was enlarged duction of antiseptic methods into eye surgery; and the urine was found to contain albumen. There especially when the antisepsis has been post-operative. was also paralysis of the lower extremities for a time in So satisfactory have been the results, says M. Panas, the one which recovered. Popoff has collected 34 that surgeons have now been able to return to the published cases of this complication, which together flap operation, without iridectomy; reserving the

while in 10 there was also spinal meningitis. This 1. Use an antiseptic sure in its action and but slightly fact speaks against the theory of Verneuil and Suru- irritating; 2. Carry the antiseptic liquid into every gne, since, if the anatomico-physiological proximity recess of the operating field, and for this intra-ocular of the parts was responsible for the complication, the washing should be the rule; 3. Cut a corneal flap as meningitis should in the majority of instances be well regulated in form as in size; 4. The toilette of the pupillary field should be as complete as possible, Popoff believes also that were Nauwerck's suppo-careful attention being paid to every possible source position tenable, meningeal inflammation in connec- of infection; 5. Before closing the eye operated upon tion with other affections would be more common; the iris should be made to contract and be completely whereas it is well known that emboli find their way reduced; 6. Use a strictly antiseptic dressing, and more frequently into the substance of the cerebrum keep the eye at rest for a sufficient time. Panas rethan its membranes. Renal disease and alcoholism gards the 1-20,000 solution of biniodide of mercury he regards as predisposing factors. Popoff attributes as the best antiseptic that he has yet used for these the complication to the presence of micro-organisms, cases. The formula which he uses is a litre of disviz., the pneumonia coccus of Friedländer. He as tilled water, 5 centigrammes of biniodide of mercury, sumes that in the stage of resolution these organisms and 20 grammes of alcohol (90°). The mercury is are taken up into the general circulation and de- dissolved in the alcohol, and the solution is then added posited in distant parts, there to excite inflammation, to the water shaking violently in a large flask, after In support of this explanation he cites the fact that which it is filtered. This solution may be kept for an

indefinite time. It produces no irritation of the the valuable contribution of Dr. J. W. Thompson. conjunctiva, is well tolerated, save in rare cases, by on the "Flap Extraction of Senile Cataract," which the cornea, and iris, and may even be injected into appeared in THE JOURNAL of February 20. Panas's the interior of the eye. The bichloride is a less pow- paper may be found in the Bulletin de l'Academie erful antiseptic than the biniodide of mercury, and is de Medecine, No. 1, 1886. much more irritating.

Panas does not seem to think the objections raised against the use of cocaine even worthy of mention. As regards the incision for the flap, he thinks that N. H., has recently received from Dr. Domingos one taking in two to three-fifths of the circumference FREIRE, of Rio de Janeiro, a report on the inoculaopacified lens. The puncture and counterpuncture formed more than 6,000 vaccinations, and not a single are always in the sclero-corneal limb. With practice person has contracted the disease, although many As a rule he avoids including the conjunctiva in the ary and August, 1885 he vaccinated, in Rio de Janei-Desmarres, since a conjunctival flap is of no use in one of whom was sick. Of the whole number, native the reunion of the corneal wound, and it may cause effusion of blood into the anterior chamber, denudation of the sclerotic, etc., which may retard primary houses where from one to five fatal cases occurred, ocular lavage is resorted to, after which a few drops tions were practiced in the most unhealthy quarters of a solution of sulphate of eserine (1-1000) are of the city, which epidemics of yellow fever have instilled, while a pomade of eserine and vaseline is habitually ravaged. introduced into the conjunctival cul-de-sac. By this means the pupil is kept contracted for twenty-four ures are false, or his methods erroneous, some of our hours, and the iris is reduced. To proceed with the contemporaries have commenced a crusade against dressing, the patient is directed to close the eyes him in which epithets are misused for arguments. A gently, and each is covered with a linen bandage Commission of competent medical men, two of whom greased with a pomade of benzoate of mercury, will be officers of the Government, has been proposed which, with its antiseptic value, has the advantage of to investigate the matter; and until that Commission not irritating the eye in the comparatively large proportion of 11/2 to 100. Dry carbolized cotton band- sub judice. ages are then superposed, layer by layer, and the whole is then firmly fixed so as to insure immobility of the wounded eye. This dressing is removed the prospectus of a new journal called The Neuroevery twenty-four hours, guarding against any move- logical Review, to be edited by J. S. Jewell, M.D., ment of the eye for three or four days. After this a of Chicago, and published by Rand, McNally & Co., simple bandage may be used to occlude the injured monthly, containing not less than 48 pages—with deeye for two or three days. The patient is usually partments for original and selected articles, editorial, well within seven days.

nection with the views of M. Panas, here presented, M.D., No. 1230 Wabash Ave., Chicago, Ill.

#### YELLOW FEVER INOCULATION.

We learn that Dr. Irving A. Watson, of Concord, of the cornea sufficient for the extraction of the tion for the prevention of yellow fever. He has perthe operator will be able to make the corneal flap, of them lived in the midst of the epidemic and some in the arc of a circle, by a single stroke of the knife. acted as nurses for those ill with it. Between Januincision, in spite of the advice of von Graefe and ro while the disease prevailed, 6,051 individuals, not and foreign, 2,282 were less than 20 years old. In the district where 3,051 were vaccinated, 166 lived in union. As soon as the operation is finished intra- and 270 unvaccinated persons died. These vaccina-

Though no one has yet shown that Dr. Freire's figreports it would be just as well to let the matter rest

A NEW MEDICAL JOURNAL .- We have received and reviews. As its name imports, the journal will Besides the shortening of the time of treatment, be devoted to the interests and advancement of the says Panas, the simplicity of this method is such that neurological department of medicine. Dr. Jewell he has operated on diabetic and gouty persons, and established and edited the well-known Journal of those in whom acute articular rheumatism or pneu- Nervous and Mental Diseases for several years with monia have occurred after the operation without unusual ability, and we commend his present entercicatrization being retarded. In the treatment of prise with pleasure, well knowing that whatever he senile cataract, he says, he has returned to the flap promises he will more than fulfil. The first number extraction without 'ridectomy; iridectomy being re of the new journal is to appear between the fifteenth served for exceptional cases. Those who are inter- of April and the first of May. All communications ested in this subject would do well to read, in con on the subject may be addressed to J. S. Jewell,

# SOCIETY PROCEEDINGS.

#### OBSTETRICAL SOCIETY OF PHILADELPHIA.

Stated Meeting, Thursday, February 4th, 1886. THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR. W. H. H. GITHENS, M.D., SECRETARY.

Dr. Chas. Meigs Wilson reported some UNIQUE SYMPTOMS.

before the Society in order—first, to record what the still has her floating kidney, all her distressing sympwriter believes to be unique symptoms of the lesion; toms have ceased. and secondly, to elicit discussion in reference to the reflex nervous symptoms of the lesion, and, if pos-children; pelvis slightly contracted antero-posteriorly. sible, to draw the line of demarcation between them Both children were delivered alive by forceps. This and the nervous phenomena of alienation. But a patient was sent me, by her regular attendant, with few years ago we were given the doctrine, ex cathedra, the diagnosis of cancer of the rectum. She suffered that lack of contour of the cervix uteri was the principal cause of that train of nervous symptoms of passed ribbon stools and had agonizing pain upon which the histories here cited contain unique exam- defecation. She had slight vaginal discharge, and a ples. Prior to this, the clitoris was supposed to be coffee-colored, foul smelling muco-purulent discharge the source of all the trouble. And now that spaying from the rectum. Rectal examination revealed an has become the fashionable surgical procedure, the ulcerated surface extending apparently for about an ovaries have been given the precedence in the caus- inch and a half in length completely around the recation of the grave reflex nervous symptoms attendant tum, about three inches above the anus. Small porupon pathological conditions of the pelvic viscera, tions of the granular surfaces of the ulcer revealed, Statistics have pretty well proven that, in a large under the microscope, no evidence of malignant majority of cases, destruction of the natural contour growth. Specular examination of the vagina showed of the cervix has been the starting-point of pelvic extensive bilateral laceration with acute retroflexion. distress in a large number of such cases. The subinvolution, with the subsequent conditions of prolapsus, hyperaemia, hypergenesis of tissue, ectropion was finally restored to its proper axis. After several of the cervical mucosa, and the inflammation set up weeks the contour of the cervix was reformed. Simby friction of the everted cervical mucous membrane ple astringent applications were made four or five against the posterior vaginal wall, which frequently times to the rectal ulcer. The patient made a comoccurs in neglected cases of laceration of the cervix, plete recovery, and has had no return of symptoms are undoubtedly the primary factors of pelvic irrita- since the operation. tion in many cases, and it is easy to see how this Case 3.—Mrs. C., æt. 22, mother of one child, with condition may set up pathological conditions of ute- history of tedious instrumental labor. This patient rus, Fallopian tubes and ovaries secondarily. To say suffered from violent ovarian neuralgia, augmented precisely what is to blame is a very difficult matter, at the catamenial periods. She had a profuse leu-The following cases are selected from a large number corrhoea, engorged uterus and enlargement of the operated upon by Dr. E. Wilson in private practice, right ovary. She also suffered at times from suicidal and by the author in the surgical wards of the Philadementia, which was sometimes so violent that she delphia Lying in Hospital.

three children, presented herself at the clinic of the tion revealed an extensive bilateral laceration of the Lying-in Charity with the following symptoms: For cervix, extending on the left side to the vaginal junethe past year, she had noticed a tumor about the size tion. The cervix was restored, with complete cessaof a small feetal head in the right lumbar and the tion of all symptoms. Examination six months right half of the umbilical region. The tumor was after the operation failed to find tenderness or enperfectly smooth, non-nodulated, and freely movable largement of the right ovary. in the abdomen. She had had obstinate constipation, a good deal of vesical irritation; at one time had had children. This patient had been incarcerated in a a sanguineo purulent discharge from the vagina; this private asylum for fourteen months, suffering with had entirely ceased for the last seven months. She violent dementia. She had the typical appearance complained of deep-seated, darting pain in the lower of alienation. No clear history could be obtained part of the abdomen, backache, intense cephalalgia of her symptoms, except that she had distressing and photophobia. Her last child had been delivered pelvic pain and profuse leucorrheea. Examination

had been under the care of a prominent gynecologist who had diagnosticated floating kidney, and recommended extirpation. After a careful examination, in which I was aided by several professional friends, the diagnosis previously made was concurred in. A careful chemical and microscopal examination of the urine failed to detect any abnormal constituent. It was then determined that laparotomy for removal of the kidney, or cutting down upon it and stitching in proper situ, would be alike unjustifiable. Upon making a more careful examination, including the CASES OF LACERATION OF THE CERVIX UTERI WITH uterus, the patient was found to have an extensive bilateral laceration of the cervix. The contour of The histories of the following cases were brought the cervix was restored; and although the patient

Case 2.-Mrs. S., æt. 32, married, mother of two

required restraint. Her case had been diagnosticated Case 1.—Mrs. McF., act. 32, married, mother of pyo-salpinx, and oophorectomy advised. Examina-

fourteen months previously, with instruments. She showed extensive laceration of the cervix. Trache-

with cases presenting analogous symptoms.

DR. JOSEPH PRICE made some remarks upon the effects of cicatricial tissue in the edges and at the apex of the laceration, of the effect of the laceration in inducing local engorgement and hypertrophy, and thus a long series of consequential symptoms. He relief of these symptoms, but the relief so obtained after operation in young women.

hear of the good results in Dr. Wilson's cases, as a laceration of the cervix might be arranged in three is made after removal or not at all. classes. 1. When the cervix, although lacerated, reensue. 3. When there has been natural repair, but consistence and relations before operating. of the symptoms.

He had found, in some of these unsuccessful cases, black clots. union of the external surfaces only, and in others

preparatory treatment. Local treatment once a week ovary weighs 139 grains, the other 103 grains. A

lorrhaphy was performed, with immediate ameliora- will often fail to have a good effect when a week or tion of the symptoms. Two months after the ten days in bed, with douches of hot water and operation she was restored to her family completely glycerole of tannin on pledgets of cotton, applied well. A year or more has elapsed since the operation daily, will accomplish rapid relief of the local condiin each of the cases, and the relief afforded has thus tion. Great care should be exercised in the removal far been permanent. These cases appear to the of tissue, as complete closure of the cervical canal author to have had unique symptoms following and may happen. He has seen two such cases which consequent upon the lesion, though, doubtless, those were detected at the next menstrual periods after the with more extended chances of observation have met operation; the passage of a spear-pointed probe gave vent to dark grumous material.

Dr. Howard A. Kelly exhibited a specimen of HÆMATOMA OF THE OVARY, WITH ADHERENT FALLOPIAN TUBE.

This specimen is an example of a class of cases spoke of the value of rest and local treatment for the which stand peculiarly by themselves; cases of aggravated tubal and ovarian disease, on a small scale is temporary; it will last but a few months, and as compared with ovarian cyst, and yet in which sooner or later, after the patient is discharged as there is enough change in the size and consistency cured, the same symptoms recur. If the cicatricial in one or more of the structures of the appendages tissue is not all removed, and complete union secured to afford most satisfactory ground for diagnostic prethroughout the entire thickness of the cervical tissue, cision under skilled bimanual examination. These the symptoms will return, or even be aggravated by cases occupy a middle ground between the larger the operation. In his experience, conception results tumors, where disease is so palpable, and those haphazard attempts, the present reproach of gynecolog-Dr. Howard A. Kelly said that he was glad to ical surgery, in which the operation upon appendical structures is undertaken to relieve a symptom, and year or more had elapsed. He thought cases of the diagnosis of pathological ovarian or tubal change

This is the right ovary of a patient 21 years of age. mains soft and flaccid, there will be no consequent It is about the size and shape of a large Spanish symptoms. 2. When cicatricial tissue is developed chestnut. I was able to handle it freely by bimanual or ectropion is present, marked reflex symptoms will examination, and determined exactly its size, shape, with inclusion or formation of hard or scar tissue, indications for operative interference after I had there will also be marked reflex symptoms. To this made my diagnosis, were greater than in the case of latter class belong those cases, with hypertrophied any large ovarian cyst I have ever seen, and the glands and everted lips, of so-called erosion. These prospects and result of any form of palliation were second and third classes must be relieved by rest and futile. Almost the whole of this large ovary is filled local treatment, and then operated upon to keep with a blood-clot, soft and jelly-like in part and in them well. Complete removal of the hard tissue, and, part firm, fibrous and apparently intimately united to perfect union of the coapted edges, must be secured. the ovarian stroma. This clot is surrounded by a Failure in either of these points will cause a return shell of apparently normal ovarian tissue, throughout which are seen a number of follicles and old corpora DR. BAER said that the symptoms were not due to lutea. A remarkable feature is the way in which the the laceration, but to its inflammatory consequences. fimbriated extremity of the tube is spread out like a To secure a good result, the inflammatory condition a sucker over the surface of the ovary and glued fast must first be subdued, and then the operation of by adhesions, so that the line of demarcation between closing the laceration will be in order. It may take tube and ovary is but faintly indicated. From the a long course of treatment to secure this necessary line of junction numerous vessels course in a radiatcondition, but operation will probably fail to secure ing manner down over the ovary. The left ovary is the desired relief without the preparatory treatment. below normal size, but contains many pea-sized

The second specimens which I now exhibit were fistulous tracts between the suture points. Cicatricial removed this afternoon. The case is an example of tissue seems to be sometimes formed after operation the third class, in which the operator has nothing when union occurs by granulation. Simple lacera but a symptom to guide him. My patient, 35 years tion without ectropion is very rare, and he would of age, suffered from an increasing menorthagia for advise repair of the laceration in all cases to prevent fourteen years. Lately she has been bleeding half future resultant inflammatory conditions. It is de- the time. She has had recourse to every possible sirable to have union by first intention to avoid form plan of treatment with but slight and temporary ation of cicatricial tissues and suture-track fistules, relief. The only thing I could do was to perform Dr. Wilson spoke of the choice of method in opphorectomy and stop her menstruation. One beautiful corpus-luteum of menstruation, about two imity to the fimbriæ, the tubo ovarian ligament being mulation of pus on one side. spread out over its surface.

Dr. Wilson called attention to the fact that in the first specimen the tube had been occluded by a

torsion or twist upon itself.

DR. BAER remarked that it would be interesting to know the results in Dr. Kelly's last case. In such a case there is of necessity a cause for the hæmorrhage; there is no apparent diseased condition of ovary or tubes sufficient to account for it. Hæmorrhages from the uterus are often associated with vegetations upon its lining surface, but these are not always present. He alluded to one case in which hæmorrhage continued to be profuse after the re-treated for several years, by various physicians, for moval of the tubes and ovaries, which had been very cystitis and prostatic enlargement; complete retenmuch diseased.

although the original cause might be removed.

the tubes and ovaries gave immediate relief.

A strong tincture of iodine applied thoroughly to the old commplaint three months afterwards, inside of the uterus and vaginal packing would quick-

Dr. Joseph Price exhibited specimens from a

The tube was as large as the finger and cheesy in consistence, and was easily broken, even by the bite of the hæmostatic forceps. The patient was in a typhoid condition, with high evening temperature, emaciation, quick pulse, pain in locomotion. There certainly had been leakage of pus before, but two ounces escaped at the time of removal. Adhesions were numerous but were cheesy, and broke down readily. After the operation there was rapid subsidence of the pulse and temperature, with the other symptoms. Free washings of the abdominal cavity through a drainage tube were practiced for a few days. There was a clear history of gonorrhoea. The where they were completely encysted and covered other tube and ovary were not enlarged.

Dr. Beates remarked that in one case upon which he had operated repeated attacks of peritonitis had caused large deposits of flaky lymph in Douglas's cul-de-sae. These were nicely removed by sponging.

Dr. BAER raised the question of the gonorrheal origin of the salpingitis in Dr. Price's case, which urethra. No stricture could be found. Upon exwas unilateral, while gonorrhea usually causes both tubes to become diseased.

DR. PRICE stated that Mr. Tait's new book reportand a half weeks old, shows that the hæmorrhages, ed a gonorrheal case of unilateral salpingitis. Comwhich retained all along a menstrual periodicity, were paring with the male analogue epididymitis, which is in reality menstrual. The tubes are free from disease. In one ovary a globular pellucid cyst lies beorigin. A free leakage of secretion from the tube, tween the layers of the broad ligament in close proxamd absence of constriction, may prevent the accurate the second construction of the tube.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, February 15th, 1886.

THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR.

Dr. William T. Belfield gave a brief outline of SEVEN CASES OF DIGITAL EXPLORATION OF THE BLADDER IN THE MALE.

Case 1.- A patient 58 years old, who had been tion had occurred several times. A diagnosis of Dr. Price remarked that in this last case the con-villous tunior of the prostate was made, the nature of tinued hæmorrhage might be the result of body habit, the growth being predicated upon the semi-gelatinous state which the urine presented after standing for a Dr. Harris spoke of a case of fibroid tumor of few minutes-an almost pathognomonic symptom the uterus with menorrhagia, in which removal of when present. Exploration revealed a small villous growth just to the left of the urethral orifice in the DR. KELLY had, eight months ago, removed both bladder; and imbedded in its meshes were found two ovaries and tubes, and the menorrhagia still contin- stones, as large as a pea and a bean respectively, ues. In the case operated upon to day the curette whose existence had not been suspected. Patient had been used, but no vegetation had been found. made a rapid recovery, and was entirely free from his

Case 2.—A boy 17 years old had for two years sufly stop the hæmorrhage for the time, but it would fered from frequent and painful urination, during soon recur. Operation was performed to relieve the which time considerable pus was constantly present symptom hæmorrhage by bringing on the menopause, in the urine. A probable diagnosis of tuberculosis and not because the ovaries were supposed to be of the urinary tract was made, and was confirmed some time afterward by the discovery of the characteristic bacilli in the urinary pus. At the urgent request of the parent the bladder was explored, with negative result. Some months afterwards nodular enlargement of the prostate and epididymis were developed. Patient's symptoms unimproved by the operation.

> Case 3.—A man 63 years old, in the last stages of chronic cystitis, was admitted to the County Hospital. Had been treated for enlarged prostate. No enlargement of this gland could be recognized, but there was found, upon rectal examination, a collection of calculi occupying the exact site of the left seminal vesicle. Upon exploration of the bladder it was found that these calculi were contained not in the vesicle, but in a diverticulum of the bladder. with mucous membrane. This covering was torn and seventeen stones were removed. The patient's condition was much improved for two weeks after the operation, but at the end of six weeks he died.

> Case 4. A man 38 years old, suffering from all the symptoms of an extremely tight stricture of the deep ploration of the bladder there was discovered a pedicled cyst attached to the upper orifice of the

urethral opening, and completely occluding the ure-usual perineal incision was made, and a portion of thra like a valve; the tumor appeared to be as large the prostate removed. The operation was successas a small walnut. During an attempt at removal ful and the man was able to do without the catheter. with forceps the cyst collapsed, about half an ounce although Dr. Belfield advised its use once a day. In of clear fluid escaping. The patient recovered rap-idly, and has since remained quite free from urinary that he had persisted in ignoring the advice in regard irregularities. This appears to be the first recorded to the use of the catheter. About the 10th of Sepinstance of simple cyst in the male bladder.

hospital in a typhoid condition, suffering from cystocame cloudy again. The bladder and kidneys were pyelitis for which no cause was discovered. Experimental enough to admit the forefinger. Dr. Belfield thought the cystitis and pyelitis subsided completely. When it would have been better to have cut down from patient was able to leave the hospital, it was discov- above in the hope of relieving the prostatic tumor. ered that he was suffering from an incipient myelitis. DR. E. Andrews suggested to the members that

with violent and fetil cystitis. It was found impos- been supposed. The former examinations made in sible to pass any instrument over a prostatic obstruc- these cases were very imperfect, and though the fintion into the bladder; from the rectum the prostate ger used occasionally to be put in the bladder it was was found irregularly enlarged. Upon exploration not dreamed that the whole circumference of it could of the bladder, a malignant tumor, involving the be reached. He thought it should be impressed upprostate and a large part of the bladder wall, was on the members of the profession that the bladder discovered. Complete anuria ensued, and death can and ought to be explored. from uramia on the fourth day. At the autopsy, The President thought this procedure for dishydronephrosis of the left kidney, caused by a pipe-eases of the bladder so new that it might be called stem calculus of the ureter, was discovered.

hospital for a chronic cystitis of fifteen years' stand-surgeons have so long known that the bladder could ing, caused by prostatic enlargement. Perineal in- be opened in many ways without injury to the pacision was made for temporary relief. Three weeks tient. He thought the profession greatly indebted later a portion of the obstructing prostate was removed to Dr. Belfield for his remarks. through the perineal wound by the galvano-cautery. Complete recovery; the patient, who had for two perineum might facilitate a cure in cases of fistula, years been practically unable to urinate except which at present are very difficult to cure, but did through a catheter, now passed water freely without not know that it had ever been tried. We do know assistance; the cystitis subsided. Nine months after that assistance; the cystitis subsided. Nine months after that assistance; the cystitis subsided. Nine months after that with fistulte are very difficult to cure, probably wards, acute uremia and death. At the autopsy, because the urine continually runs over them. The small cirrhotic kidneys were found. This is believed procedure is practically harmless and may effect a cure. to be the first case recorded in which a considerable | DR. W. T. BELFIELD said, in conclusion, that this portion of the hypertrophied prostate has been de-procedure of inserting a drainage tube through the

history, but by rectal examination it was discovered, and from its nature it offers every hope of a cure. that the prostate was very much enlarged in the left lobe, the right lobe appearing normal in consistency and size. The doctor thought this almost a proof that in a man of this age, 31, the seeds of tubercu- in which he said that he believed gleet is due to a

stance of simple cyst in the male bladder. tember he was taken with uræmic convulsions, and Case 5.—A partient 38 years old, admitted to died on the 18th. The last few days the urine be-

Case 6.—A man 31 years old, admitted to hospital this subject was more important than has formerly

novel, and it seemed singular that at so late a day Case 7.—A man 59 years old was admitted to the the bladder should be explored in this way, when

DR. W. M. AXFORD thought an incision in the

perineal wound for curing fistula of the urethra is On concluding his paper, Dr. Belfield spoke of mentioned in Harris's book, and seems to work with a case which came into the hospital in a state entire success. There was one point upon which he of extreme exhaustion, evidencing violent cystitis. congratulated himself, viz., the discovery of cyst of Urine containing pus was passed every fifteen min- the bladder. So far as he knew nothing of the kind utes with extreme pain. It was impossible to get an had been recorded in either the pathological or clininstrument into the bladder more than half an inch. ical literature of the bladder. The misery that it The man was half unconscious and could give no can cause is illustrated in the case under discussion,

## DR. W. L. Axford read a paper on

## NOTES ON GENITO-URINARY SURGERY,

lous disease were present. The bladder was opened, stricture of the urethra, and can be cured by curing and the finger inserted in the usual way, discovering the stricture. He believed that dilatation cured a a malignant growth covering an inch and a half of stricture by exciting inflammation at the seat of the the left wall of the bladder. After the operation the stricture, and thus causing the absorption of the expatient passed half an ounce of urine, but died in udate. In the treatment of strictures he believed three days from uramia. The bladder and kidneys that perineal section is best in strictures which are were secured and found to be the seat of extensive deep-seated, narrow, or unyielding, or complicated hyperinosis, caused by a calculus. Another case was by fistula or urinary infiltration; internal urethrotomy that of an emaciated French Canadian who had had in all strictures of the meatus or fossa navicularis, for trouble for eighteen years, and had depended entirely they will not stretch. For other strictures be would for urination upon the catheter for two years. The advise, as the case demanded, dilitation, divulsion, orrheea or stricture and these disappear.

skin diseases had been cured by curing strictures by the three methods, stretching, divulsion and cutting, internal urethrotomy. Also, cases in which dysuria omitted one of the most importance, viz., the use of and vesical discomfort had been allayed by slitting a constant electric current. Although this had not the meatus. In female urinary troubles, after ex-received a great deal of attention from the profession cluding uterine disease, he had given relief by digital he thought anybody who tried it would never give it

dilatation of the urethra.

ger in operations for stricture. He did not know curiosity and found it worked nicely, and again in the reason for mortality in Europe, for he thought it private practice where it was extremely important to the general experience in Chicago that men don't the patient that no perineal section should be done. die of these operations. Long ago he had left off As to stretching the female urethra with the fingers, died in consequence of the operation for stricture. strument for this purpose to be Stein's dilator, which As to the question of divulsion, or cutting, he had has a continous dilatation. performed the two operations indiscriminately, some-times both on the same patient. He thought divultion always has to be followed out by the occasional ried out, is as safe as cutting.

ing under his care of stricture in a child aged four first rate. Would always prefer to use his own hand, years. He was convinced, however, that stricture as no instrument equals the human hand. is very rare among children. This was the only case that had come under his observation. Otis alludes to two causes-masturbation and gonorrheea. In this case he found no history of gonorrhoea, and the mother denied the practice of masturbation. The DOMESTIC CORRESPONDENCE ure was so closed that he could only enter the bladder by means of a very fine bougie; this was followed by a larger one, this by a small catheter, and To the Editor of the Journal: this by a steel sound, and the child was then able to weeks ago, and there has been no further trouble.

DR. A. B. STRONG asked if the cure was permanent offered as good and permanent results.

or internal urethrotomy. If the stricture is resilent, DR. W. T. Belfield suggested two points in Dr. divulsion or internal urethrotomy, preferably the latter. He believed the dull pain in the back, and at the safety of cutting. He thought it absolutely imtimes in the head, during the later stages of gonor-perative that we limit our cutting operations strictly rhea, to be due to urethral reflexes. Cure the gon- to the pendulous urethra. This was not merely a theoretical and anatomical consideration, but a prac-He cited cases in which severe cephalalgia and tical one. He thought Dr. Axford in speaking of up. It is said to produce the most permanent re-Dr. E. Andrews referred to the point whether sults, and is convenient and easy. He had tried it in there is any danger or not in urethrotomy. Euro- his own practice, once in the hospital where he had pean statistics show a considerable amount of dan-the privilege of cutting, but tried the battery out of keeping count of the cases he had operated on, and he thought it dangerous. When house surgeon in the could not recall an instance in his own practice or County Hospital he had seen a woman die of peritothat of any one else in this city in which the patient nitis when that was done. He thought the best in-

sion and cutting produce precisely the same result. passage of the sound for an indefinite period of time; Some strictures will stretch out under the divulsor all the patient's life. If the stricture is divided clear and go back again, and cutting is better for these through Dr. Otis claims that a perfect cure will be cases, but neither appears to be dangerous. He made and no after treatment will be necessary. Dr. had found divulsors from New York instrument-mak- Axford thought that Dr. Otis, although an extremist ers repeatedly breaking down under strong strict- on this subject, is about right. As to cutting in ures. Otis's instrument he thought exceedingly the membranous urethra, he did not think anyone strong, but even that had failed in one instance. He would do that. He had never had experience with expressed the belief that divulsion, thoroughly car- the galvanic current, had heard it recommended and also discountenanced. In dilatation of the female Dr. F. E. Waxham referred to a unique case com- urethra he had always used his fingers and succeeded

(To be concluded.)

#### BRANCHES OF THE AMERICAN MEDICAL ASSOCIATION.

Dear Sir. - I have read with much interest pass the urine without difficulty. Before dilatation "Branch's" letter in The JOURNAL of February 6th, the child would undergo the greatest suffering every and agree with him that the matter ought to be taken time he passed water, would scream and strain for up at the coming meeting in St. Louis. Within reseveral minutes, and oftentimes strain so severely as cent years the Association has taken two important to cause evacuation of the bowels. After the first steps-the establishment of The JOURNAL and the addilatation the child did nicely for a week and then mission of "Members by Application." These have was as bad as ever; the second dilatation was three materially extended its influence and increased its

The numerical relation between the regular proafter cutting unless constantly followed up with the fession in the United States and the Association is catheter. He wished to know if there is anything still small, but even if an increase exceeded the most better than simple dilatation. Cutting and divulsion sanguine expectations a scattered membership of are more rapid, but he thought gradual dilatation many thousands would not be so powerful as one smaller but disciplined and united. What is wanted is organization, a system by which the profession can They do not publish their transactions, and the actual express itself as a unit upon vital questions, and running expenses are comparatively trivial, so that through which the greatest possible benefit will accrue their amalgamation would present fewer difficulties. want of proper representation.

attain its rightful position in America without some effected. system whereby its sentiments can be voiced; and sented and governed by its council; and kept in States. constant communication through its JOURNAL. The methods by which this is attainable must be adopted at a general meeting of the Association, but it will be profitable to discuss the matter beforehand, so that TO THE EDITOR OF THE JOURNAL: they who undertake its inception may have the ben-

It is not too sweeping a statement that no State So- Branch being recognized by the Council. might be "profitably dispensed" with and the "very or have power to incur any obligation in its behalf." bad" papers omitted; but it is well to bear in mind There are thirty-four such Branches, it is stated, in

to individual members. The British Medical Asso- It is open to consideration which should be adoptciation is thoroughly organized by numerous branches, ed, either to make each State Society a Branch of yet the area of territory in which this system has the Association, or to organize small Branches and been found so successful is less than that of many leave the State Societies as now constituted. As a States of the Union. In this vast country members of the American Association are scattered North and feasible project and likely to afford a large measure South, East and West; the only method of reunion of success. Taking the expense per capita "Branch" is an annual meeting, which takes many practition- says that "the number of members of State Socieers a journey of 2000 miles to attend, and an expenties who cannot afford to pay two sets of dues is exditure in time of two weeks. During the interval tremely limited." This is very true, and with it comes between these assemblies the Association is practical a question of economy. A large number of physically non-existent; it is difficult to obtain even a cians belong to a local society, the State organizacollective expression of opinion, and as a factor in tion, and the Association as well, so that they pay politics its influence cannot be exerted, owing to the three sets of dues. If, therefore, a comprehensive scheme be devised which shall organize the profession It will be impossible for regular medicine ever to under one common head, a saving can certainly be

I trust that the matter will be fully discussed and this should be the National Association, organized some measure adopted which will enable a Republic by its branches, in every State and Territory; repre- of Medicine to rise and flourish in these United Yours truly,

JAMES H. PARKINSON, L.R.C.S. Sacramento, California.

Dear Sir.—In your issue of February 6th is an efit of previous deliberation. Meanwhile, it is well item of correspondence on "Branches of the Amerto deal with the objections which may be urged when ican Medical Association." I am sorry that I cannot it is proposed to interfere with existing organizations. altogether agree with the conclusions of your corres-The "two reasons" which "Branch" puts forward pondent as to the propriety or wisdom of the proin regard to State Societies are really the principal posed "Branches" Let us examine the question obstacles to encounter, namely: status and finance. with a little care. "Branch" proposes that we Of these the first is least important. There would shall, in this country, adopt the method of the British be no "dependency" except in theory. The So-Medical Association to perfect our own organization. ciety which organized with similar objects and adopt- Their method, as he sets forth clearly and distinctly, ed the "Code of Ethics" of the Association for its consists in the formation of Branches under regulaguidance is already in close affiliation; otherwise its tions of the General Council of the British Medical autonomy is complete. In its own section it should Association, in which each Council in each Branch be supreme, and it would remain the centre to which has a single voice; and that "any number of memthe local societies focus. The subject of finance is bers, not being less than twenty, may form themselves more important and must be carefully considered, into a Branch of the Association, subject to such ciety is numerically as strong as the regular profes- Branch shall be free to govern itself as its members sion in that State would entitle it to be. Its income shall see fit; but no Branch law shall be valid which, is small and modest balances in the treasury are the in the opinion of the Council, may contravene any rule. The principal expense is the annual volume fundamental law of the Association. Each Branch of Transactions. Whether this publication is desir-shall pay its own expenses, and no Branch shall be able is a question. No doubt much of the matter deemed for any purpose the agent of the Association,

that some of these are reports from various sections the British Medical Association. It occurs to me in and must necessarily be printed. They, however, the consideration of this question that, while the soserve a useful purpose by acting as an incentive to called Branch plan may be a very desirable one for better work, and tending largely to keep alive an Great Britain, it is not adapted to the customs of interest in the Society and its annual assembly. THE this country, and the "plan" will not be popular, or JOURNAL of the Association could not undertake to meet the wishes of a majority of the profession. The publish more than the minutes of a meeting, yet any object of the proposed change, if I understand your scheme which proposes to abolish the publication of correspondent correctly, is to increase the power this matter will probably be received with disfavor, and membership of the American Medical Associaand in my opinion may be harmful in its action. It seems to me that very desirable object With local or County Societies the case is different, will be much better attained, with less friction, if we simply open the doors of the Association so that its opinion, should proceed somewhat differently from the members shall include the members of affiliated method suggested by "Branch." State Medical Societies who shall have inscribed their names on the register, and certified their adherence should be divided into a governing body and a workto the regulations of the Association for the govern- ing body. The latter could be composed, as it is now, ment of its members in professional life. The adop- of members of the regular profession, who have attion of such a rule would at once make every member, tended in the capacity of delegates to this part of the in good standing, of a State Medical Society in affil- organization, its Sections, and of "Members by Apiation with the American Medical Association send-plication." The former should be composed of deleing delegates to its annual meetings, a member of the gates only of State and Territorial Branches, who American Medical Association. The rule might should be chosen by these bodies under rules made further provide that any member failing to pay his by the American Medical Association, somewhat dues for any year would thereby become indefinitely like this: suspended from membership in the Association. This plan, it seems to me, is much simpler than the tion shall consist of the legally recognized State or one proposed by your correspondent. It utilizes Territorial medical organizations. already existing organizations, and does not change the present plan of organization, which is what I can Medical Association shall be composed of two may designate, as contra-distinguished from the Brit- parts, a governing body and a working body. The ish plan, the American plan, and therefore, in my former shall be composed of delegates, one for every opinion, decidedly preferable for use here, to any subordinate society, of all medical organizations, who imported from Europe.

Medical Society to attend the meetings of the Asso- of the American Medical Association. ciation, but by their being permanent members of 3. The working body shall consist of all regular the Association they will be entitled to the receipt physicians, who are elected to membership under the of The Journal, and then, as now, in the election rules of the Branch, not conflicting with those of the of delegates to attend the business meetings of the American Medical Association. All laws and all Association—they alone having power to vote—they matters tending to maintain and enhance the interests will be fully represented. So, then, it appears, as a of the American Medical Association, its Branches matter of fact, the State Medical Societies, in affilia- and their members, shall emanate from the governing tion with the American Medical Association, are al-bodies, to be known as the Council of the American ready "Branches" in effect, and it only remains to Medical Association and the Councilopen the doors of membership to all members of the of the A. M. A respectively, with this proviso, that respective Branches, i.e., State Societies in good everything suggested by such Councils must receive standing. The autonomy of the "Branch" is nominal in England, in our country it is real, and in accordance with our political system, which medical legalize it. And, further, no rule or motion shall be

of membership for our general Association, I should organization. oppose the supplanting of our State Societies by any 4. The Council of the American Medical Associa-Branch of whatever degree; and in fact there is no tion shall consist of one delegate for every (1en or need, for as already pointed out, the present State twenty?) members of the State and Territorial organizations can not only strengthen the general Branches. Said delegates must be members of the Association by encouraging large membership there-in, but if the American Medical Association bases Branches. Provided, however, that no person shall the claim to membership on the applicant's standing be eligible to the Council of the State or Territorial in his own State Association, that basis will also serve Branch, who has not submitted a paper, in some as an element of strength to the State Society; thus Branch of the science of medicine, which has been proving the wisdom of the old moral which we adopt accepted for publication by his society. And proas our political maxim, that "in union there is vided further, that no person be eligible to member-Very respectfully yours,

JOHN B. HAMILTON, M.D.

Washington, February 10, 1886.

To the Editor of the Journal:

Dear Sir:- 1 have been much interested in the letter which dealt with the subject of "Branches" in Medical Association and its Branches shall be known your issue of February 6, page 163. No one can as "Fellows" of the American Medical Association, take exception to the spirit of that letter, though one and as "Fellows" of the———Branch of the A. M. may differ when it comes to the details and their ex- A. respectively. And they shall retain this title as ecution. The formation of such Branches, in my long as they are in good standing in their society and

In the first place the American Medical Association

1. The Branches of the American Medical Associa-

2. The State or Territorial Branches of the Amerirecognize the authority and subscribe to the consti-It is not possible for every member of a State tution and By-laws of the State or Territorial Branch

men, as patriots, ought to uphold rather than decry. adopted by a Branch, or its component parts, which Therefore, while I favor the widest possible basis conflicts with the already existing rules of the higher

ship in the Council of the American Medical Association, who has not submitted a paper upon some subject connected with the science and art of medicine, which has been accepted for publication by the State or Territorial Branch of the American Medical Association of which he is a member.

5. The members of the Councils of the American

State or Territorial Branch. All officers of the and if these journals did not accept them it can most Branches of the States and Territories, as well as generally be surmised that the emanation was not those of the American Medical Association shall dur- worth printer's ink. It is eminently correct that ing their service be ex officio members of the Councils many papers, instead of making the costly yearly of their respective societies.

would be followed by many benefits; the formation medical science and practice.

dency," when its weaker brother, the "ethical sub- from them, so they are safe. mission," existed long ago? A relationship which tainly be a long step forwards.

one journal." I cannot understand why such a supposition should not be entertained. If the membership of the American Medical Association could be To the Editor of the Journal: doubled, why should not The Journal of the As- Dear Sir: — In regard to the communication

transactions more costly still, had better find an early Such suggestions amended as wisdom shall dictate, grave in the waste basket of the editorial sanctum.

It will be seen that my scheme differs from that of of local societies, both in cities and counties would "Branch" in one particular materially. He says of be stimulated; the State organizations would grow the British Association: "Any number of members, strong, pari passu with the multiplication of local not being less than twenty, may form themselves into societies, and the whole profession of the United a Branch of the Association." This is already true States would have the novel experience of demon- of the American Medical Association; for it recogstrating for itself, that "in union is strength." But nizes delegates from any regular Medical Society in this beneficial reaction would not only appear in the the States and Territories, and in my opinion this is political and social relations of the medical profession. the very weakest point in its organization. By this but also in its scientific aspect. For the scheme action it sustains the Local Societies at the expense offers advancement and position only to those who of the State Societies, and these in their turn pay distinguish themselves by their work in the field of the Association with the same coin; with this difference, however, that the Association lavishes its priv-A dependency of the State and Territorial Societies ileges upon independent local societies, whilst the upon the American Medical Association would be State Society, deprived of the strength of these local established only in so far as the Branches need the societies, sends a weaker delegation to the Associastrong arm of union, whilst in all other matters they tion's meetings. The proviso that such bodies must would be as unmolested as ever. For really a moral be recognized by their State Societies goes for dependency exists now, as was demonstrated by the naught; we have one of these societies in my State; action of the American Medical Association towards it does not affiliate with the State Society, and yet the New York State Medical Society, and towards a every member thereof would be entitled to recognimember from Nebraska in late years, who was pre-tion by the State Society and the American Medical vented from taking his seat in the Association on Association. They ignore the former and acknowlaccount of non-payment of dues in his State Society. edge the latter, and, permit me to say it, the Asso-Why not call into life the strength of "legal depen- ciation meets only once a year and a good ways off

The body of the medical profession of the United would supplant the restriction of the few in wrong, States-the American Medical Association-should by the protection of the many in right, would cer- not be connected with its fingers only (the local societies) as it is now, but should interpose the strong Another, and by no means small factor in such a arms, as represented by the State and Territorial scheme, would be the strength and therefore useful. Societies; thus making the fingers more useful, the ness, which the JOURNAL OF THE ASSOCIATION would body more powerful, and the whole more harmonious. receive. "Branch" says: "It could scarcely be This is evidently the object of "Branch;" it is the supposed that all the papers could be published in hope of STATE SOCIETY.

SOCIATION be enlarged one-half its present size? A signed "Branch," which appeared in THE JOURNAL journal of the dimensions of the London Lancet could of February 6, I submit the following: It seems easily publish, in its fifty-two yearly numbers, all the that the British Medical Association is formed or papers submitted at the State Society meetings and made up of societies which are known as Branches, and at the annual meeting of the Association—es—and that a man who becomes a member of a Branch pecially if a little more of the "survival of the fittest" is at once a member of the Association, and that a were indulged in, which would be as beneficial to part or the whole of the membership fees and dues medical literature as it is to nature. The present go to the Association. The American Medical Astendency in medical journalism is evidently in the sociation is made up of permanent members and direction of the representation of specialties, thus delegates from State, District, County and Local Solimiting the need of general journals more and more, cieties. Until recently, in order to become a mem-These will find their usefulness only in the publicaber of the Association, a physician had first to be tion of news, and of matters of general interest to the delegated from his Local or State Society, and be profession, and these things the JOURNAL OF THE thus registered on the books of the secretary. Then Association could certainly furnish, and fitly so, for he was a permanent member as long as he stood well every physician in the United States. And here the in his Local and State Societies and paid the annual suggestion of "Branch," somewhat modified, would dues to the treasurer of the Association. Now, any apply: Members could publish their papers in jourman in good standing in his Local or State Society nals devoted to the specialty of which they treat, can become a permanent member of the Association by bringing proof of such standing, paying his dues once, in order to pursue a proper line of treatment. and signing the Constitution. In the British Medi-

soon as he joins a Branch.

In the American Medical it is different. Membership in a Local or State Society in affiliation with there was an exploratory laparotomy made in stabthe American Medical Association only qualifies the wounds of the abdomen affords insufficient data upon physician to become a member of the Association, which to establish any fixed rule of practice, the same With this last exception, and the dividing the fees principle which is recognized in the performance of and dues paid into the Branch Societies, with the As- laparotomy for gunshot wounds of the abdomen is sociation, the laws governing in the American Medialso applicable to penetrating stab-wounds. cal are very similar to those governing in the British Association, and I can see no other object in making wound for an examination of the peritoneal cavity the changes suggested than that of increasing our will not enable the surgeon to exclude in all cases membership and strengthening or replenishing our fæcal extravasation, perforation, volvulus and hæmtreasury, at the sacrifice of our State Societies, which orrhage. These may all exist, and yet no evidence have done good work in standing as the only gates of their presence be manifested upon inspection through which entrance to the Association could pos- through a small opening. sibly be effected; and it occurs to me that the moment they are removed we will let down the bars to velocity of the bullet, the attitude of the patient at hordes of crooks and charlatans, whose crookedness the time, nor the kind of weapon used to produce a shuts them out of Societies at home where they are stab-wound, seem to Dr. Dennis to influence the best known. Once the Association determines to question of laparotomy. remove such safeguards, the Code will become a thing of the past and the Association the resort of from the large venous trunks in the abdomen, and thousands who disgrace the name of doctor. Fear- this hæmorrhage not be discovered until the cavity is ing that such would be the effect of the changes sug- about to be closed. gested by "Branch," I must beg to record myself as dignity and prosperity of the Association.

Very truly yours, J. M. Keller.

Hot Springs, Ark., February 9, 1886.

# LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Laparotomy in the Treatment of Penetrating Wounds and Visceral Injuries of the Abdomen.

Medical Association, Professor Frederic S. Dennis for Dr. W. T. Bull, of New York, to make the pracread probably the most elaborate paper that has yet tical application of the knowledge acquired from Dr. been prepared on Laparotomy in the Treatment of Parkes's experiments to a higher use. It was indeed, Penetrating Wounds and Visceral Injuries of the he said, from a cursory view of these chronological Abdomen, and it was most richly illustrated by patho- facts that laparotomy in penetrating abdominal logical specimens of great variety from a number of wounds and visceral injuries was conceived, develthe cases referred to in it. The conclusions at which oped and perfected in America. he arrived after a full consideration of the subject were stated as follows:

domen are less fatal than penetrating gunshot wounds; wounds he reported two cases of great interest, in but that the former are fatal in too great numbers to both of which he was enabled to present the patients, allow the surgeon to be content with the older meth- restored to health, to the members of the Associa-

ods of treatment.

intestine or any abdominal organ, laparotomy is in- years of age, who was admitted to St. Vincent's dicated. It may be indicated also in cases where Hospital in November, 1885, suffering from two abthe gut is not perforated, but where it may have be-dominal wounds inflicted with a knife. The intestines, come twisted as a result of the stab-wound.

doubt exists, the diagnosis should be made certain at. The wounded intestine was sewed up with catgut

Fourth. That laparotomy offers no additional cal Association a physician becomes a member as danger to the patient, if properly performed with the

strictest antiseptic precautions.

Fifth. That while the number of cases in which

Sixth. That the enlargement of the original

Seventh. Neither the size, shape, character and

Eighth. It is possible to have a fatal hæmorrhage

Ninth. That the sutures, if properly applied, will against the paper in its present shape, though in do- close the perforation in every case, no matter how ing so I ask that you will not class me among the lacerated the wounds are, or the sutures will close opponents to any change which will redound to the the wound in case of resection of the gut, so that no leakage will occur if water is forced through the sutured interstices.

Tenth. The success of laparotomy is to be attained when every arrangement is complete and

perfect.

Dr. Dennis paid a tribute to the remarkable foresight of the late Protessor Gross, of Philadelphia, whose prophetic atterances of nearly half a century ago in regard to this subject he quoted, and said that the credit of this great achievement will be found to be due to the influence and teaching of Gross, Ma-At the last meeting of the New York County rion Sims, and Parkes, of Chicago; while it remained

Among the cases mentioned in the paper were a considerable number which had been treated by Dr. First. That penetrating stab-wounds of the ab- Dennis himself. While treating of penetrating stabtion, who had an opportunity of inspecting the cica-That if the stab-wound has injured the trices left. The first was that of a young man, 22 which were perforated, protruded, and there was fæcal Third. That in a penetrating stab-wound in which extravasation, but not into the peritoneal cavity.

be drawn out and sufficiently examined without such vessels. an operation; and that a concealed wound would have been much more dangerous.

the median line, and then a second one, diagonally, fectly water-tight. which joined the wound to this. The viscera were before performing laparotomy proper; as this pro- arotomy even in comparatively favorable cases. cedure was a little more conservative. The operation with other similar cases.

twelve ounces of a saline solution were injected into it had as yet been reported. the radial artery. This was followed by marked. In treating of the signs of visceral perforation in

sutures, and after a careful examination had been every four hours; the canula being in the meanwhile made for other wounds in it, returned to the cavity, retained in the artery. At the end of forty-eight and the external wound closed. He remarked, in hours, however, the patient died, and at the autopsy connection with this case, that the operation of ex- the bullet was found imbedded in the right lobe of ploratory laparotomy was not called for in this in-stance, because the intestincs protruded, and could on account of the irreparable injury to large blood-

The second patient, aged 22, was admitted to the same hospital January 10, 1886, also suffering from The other case was that of a negro 57 years of a penetrating abdominal wound inflicted by a 32age, who was admitted to his wards in St. Vincent's calibre pistol. He had marked shock, and lapar-Hospital December 20, 1885. He had been stabbed otomy was resorted to by Dr. Dennis. There was in the umbilical region, to the left of the median line, faccal extravasation, and seven openings in the intesand from the wound, which was one and a half inches tine, with one in the mesentery, were found. The in length, protruded a finger-shaped piece of omen- hæmorrhage was so enormous that, on account of The latter was tightly compressed by the edges the alarming condition of the patient, the operation of the wound, and was afterwards removed by Dr. had to be abandoned before its completion, and Dennis. Antiseptic gauze was immediately placed death ensued in forty-eight hours after the injury. over the parts, and three hours after the accident At the autopsy the cavity of the abdomen was found laparotomy was performed under strict antiseptic completely filled with blood; but the sutures which precautions. A vertical incision was first made in had been made in the intestines rendered them per-

He remarked, in connection with the frightful and thoroughly examined from the stomach to the inguinal uncontrollable hæmorrhage met with in these two flexure of the colon. The small intestines were cases, that at present the great desideratum in laparturned completely out of the body, and omentum otomy for penetrating wounds was some means of and mesentery carefully inspected; but no injuries arresting hemorrhage from such large vessels as the were found. He remarked, by way of comment, vena cava and the iliac and portal veins; and it had that it might be objected that laparotomy was not occurred to him that this might possibly be accomnecessary in this case; but in answer to this he would plished by constriction of the thighs and the waist simply call attention to the fact that this was not for a sufficient time to enable the surgeon to secure known at the time. If the intestines had been the bleeding trunks. When this point was accomwounded, and laparotomy had not been performed, plished, he believed that laparotomy as an operation the patient would undoubtedly have died. The lap-would meet with the most brilliant success. In one arotomy was called for, therefore, in order to find out case which he referred to, in which laparotomy was what the actual condition of affairs was. This, he not performed, no less than ten perforations of the believed, was the first laparotomy which had been intestine were found at the autopsy, and the failure made in the case of a stab-wound where it was not to resort to the operation therefore deprived the paknown that the intestines were wounded. In another tient of the only chance of recovery that he had. case of the same kind, however, he would now recom- In this instance the existence of perforation was not mend that the wound itself should be enlarged suffi- suspected by the surgeon in charge; so that it forciently to make an examination of the intestines cibly illustrated the advisability of exploratory lap-

Besides penetrating stab and gunshot wounds of tion in this instance, he wished it to be understood, the abdomen, Dr. Dennis mentioned a third indicahad not been sudden and unpremeditated, but was tion, viz.: rupture of the intestine. A number of the result of much study and experience in connec- cases, illustrated with specimens, were related. In two the patients were run over, and in the others in-In speaking of gunshot wounds he also reported in juries of various sorts were received. As far as he detail two cases of his own, in both of which lapar- had been able to discern, only two cases of laparotomy otomy was performed. The first was that of a young for rupture of the intestine from traumatism had ever man, 23 years of age, who was admitted to the 99th been reported. In speaking of this class of cases, Street Reception Hospital January 2, 1886, suffering he referred particularly to emphysema of the tissues from a penetrating wound of the abdomen caused by and loss of hepatic flatness on percussion as indicaa 32 calibre pistol ball. Severe shock was present, tions of perforation. Collapse, he said, was the only but laparotomy was performed; when it was found constant symptom; but it was not pathognomonic. that there was the most profuse hamorrhage in the The rupture was always in the small intestine, and cavity. The examination showed that the principal the contraction of the muscular fibres usually presource of this was the veins in the transverse fissure of the liver. There was no wound of the intestines. In account of the extreme exhaustion of the patient, abdominal surgery; although no successful result in

benefit, and the same thing was therefore repeated general he said, in regard to the matter of shock,

that the persistency of the shock was of more signifi- to show that loss of hepatic dulness was not an infalcance than its severity; and when it was persistent, lible sign of perforation. It was one of peritonitis. it afforded a strong link in the chain of evidence, and the absence of liver dulness being detected, it The shock, however, he said, was more apparent than was naturally supposed that perforation had occurred. real; being due rather to the sympathetic than to At the autopsy, however, it was found that this was the cerebro-spinal system, as was also the case in not the case, but that the intestines had become strangulated hernia. He thought its presence should forced between the liver and the abdominal walls. not deter the surgeon from performing laparotomy; Dr. J. W. S. Gouley said that he believed that the and in his own cases he had found that the collapse views expressed this evening were sound, and that improved after the opening of the abdomen. Shock, laparotomy was justifiable when we had reason to however, affords no direct evidence of perforation; believe that the hollow viscera had been injured. At and a number of cases were on record in which, the same time, numerous instances were on record although perforation had actually occurred, there was in which recovery had taken place under these conlittle or no shock present, and death occurred almost ditions, and as illustrations he related two cases which without warning.

subject in the Surgical Section of the New York tol shot also passed completely through the body. unusual danger. The performance of the latter, war, was also related by the President, Dr. Leale. however, was a much more serious procedure; in- After this instructive scientific session the memvolving no little skill, patience and expenditure of bers adjourned to the library of the State Associatime, and requiring the most favorable conditions tion, where they enjoyed a pleasant collation and for its success. In this connection, he remarked social reunion, which included the passing around of that he would not consider a case of laparotomy in a festal "loving cup," filled with a most delectable its entirety one in which there were found no injuries concoction, the offering of Dr. Flint. of the intestines or other viscera. In regard to shock, he agreed with Dr. Dennis that it was perfectly justifiable to perform exploratory laparotomy whether it was present or not. Whether the exploratory incision To the Editor of the Journal: was to be made in the median line or not depended

of perforation of the intestines; but there were a tilting of the liver.

had come under his observation during the late war. In the discussion which followed, Dr. Joseph D. In one instance the patient had a bayonet wound Bryant, who opened the recent debate on the same completely through the body, and in the other a pis-Academy of Medicine, called attention to the neces-sity of discriminating sharply between the two forms as the lower lobe of the right lung, was injured, and of the operation, viz.: exploratory laparotomy and bile flowed freely out of both openings with the pus. laparotomy in its entirety. The performance of the Still, he did not hesitate to say that if he were to deal former he advocated much more frequently than was with such cases to day, he should prepare himself to now the case; believing, as he did, that when done open the abdomen. An interesting case, with reunder proper conditions it exposed the patient to no covery, which had been under his care during the

#### TARTAR EMETIC VACCINATION.

Dear Sir.—The articles of Drs. Woodworth and on the direction of the violence producing the wound. Ziegler bring the following facts to my recollection: If this was towards the median line, the incision was As is well known, Prince Bismarck allowed, during to be made in the latter; but if the direction was the Franco-Prussian war, American surgeons to enter from the median line, it was to be made at the seat the services of his Government, and appointed the of the external wound. He spoke also of the very late Dr. Krackowitzer and Dr. Abraham Jacobi, from great importance of hemorrhage, and said that it was New York, a Board of Application, to certify diploabsolutely necessary, in performing laparotomy in its mas and the respective ability of applicants, who entirety, that every bleeding point should be satisfac- were requested to send in a certificate of a regular torily secured. Not infrequently very slight oozing medical practitioner in good standing, as to their became changed to profuse harmorrhage as soon as previous lives, practice, etc. Having been accepted the abdominal contents were returned to their places. by the Board, I embarked on the Anchor line steamand the cavity was closed up. Experiments which ship "Europe" to Glasgow, and from there to the he had made on dogs (shooting them in the abdo- seat of war. After our services ended the wellmen, and then performing laparotomy), had further known Dr. Knapp, of Berlin, was entrusted by his convinced him of the extreme importance of this Government with furnishing us the funds for our reelement in gunshot wounds of the abdominal cavity. turn travel, and by the way, it was almost as hard to Dr. E. G. Janeway said that the absence of hepatic dulness was a good general guide as to the existence "red tape."

Thinking that I could save some of the money, I certain number of cases which simulated this condi-started for Hamburg and looked around for a ship, tion. Thus, in a case of typhoid fever under his where I could make my way as surgeon. I succeedobservation, in which, on account of this symptom, ed in finding the "Palmerston," bound for New York. perforation was supposed to have taken place, it was We had 700 emigrants on board, no cabin passengers found at the autopsy that the resonance over the except me. The steerage was good and comfortable, hepatic region was not due to perforation, but to the food and water through all our long tedious journey excellent. On the seventh day out I was notified Dr. H. M. Briggs also related a case which went that an old man was sick, and on examining him I

found that he had small-pox. I separated him and but survived. His clothes and everything pertaining shall not exceed the ratio of one in ten of the resident to them were thrown overboard; the girls' clothing physicians who may have signed the Code of Ethics was steamed in a special oven. These three cases of the Association. were the only ones which occurred on our ship. When the passengers heard of it there was quite a nated, are earnestly requested to forward, at once, panic among them, but after I told them that all pos- lists of their delegates. sible precautions would be taken by me to prevent on board, and recollecting of having read somewhere Societies. about the identity of the pustules of tartar emetic and small-pox pustules, I resolved to try a few inoculations with tartar emetic.

I inoculated myself first, and having been re-vaccinated when fourteen years old, I could not find any difference between the two. From myself I inoculated some babies, and saw that the course was nearly identical with true vaccination; the pustules could not be distinguished from real vaccination pustules. It must be remembered that during our services in the Prussian army we had an extended op-French), so that I am well aware of what I write. I inoculated all the passengers and had the satisfaction that every vaccination took. Our journey, waukee, Wis., Chairman; Dr H. H. Mudd, St. Louis, on account of contrary winds, was a tedious and long one, lasting sixty days, though time passed swiftly enough for me. When we landed in New York 1 reported to the Assistant Health Officer of the port, the late Dr. Mather, of Albany, the incumbent, Dr. Cochran, then being sick. We got, without any trouble, a permit to land. I am perfectly convinced that by the combined care and cleanliness I extracted from the passengers, and the re-vaccination (or the morale of it?) succeeded in staying the ravages ville, Ark., Secretary. of the disease, which might have been very fatal in such a crowded ship as ours.

Yours respectfully, CARL PROEGLER, M.D. Fort Wayne, Ind., January 24, 1886.

# ASSOCIATION ITEMS.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in wood, St. Louis, Missouri, Chairman. St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tuesday at 11 A.M.

The delegates shall receive their appointment from permanently organized State Medical Societies and such County and District Medical Societies as are recognized by representation in their respective tion, to be known as the Section on Medical Juris-State Societics, and from the Medical Department of prudence. the Army and Navy, and the Marine Hospital Service of the United States.

Each State, County, and District Medical Society the family, two grown daughters, from the rest of the entitled to representation shall have the privilege of passengers and began to disinfect the ship thoroughly sending to the Association one delegate for every ten with carbolic acid, sulphur and juniper berries, the of its regular resident members, and one for every latter more for the smell than anything else. The additional fraction of more than half that number: infected man was 67 years old, and died within three Provided, however, that the number of delegates for days. The daughters had small-pox rather severely, any particular State, territory, county, city or town

Secretaries of Medical Societies, as above desig-

Also, that the Permanent Secretary may be enabled the spread of the disease, they quieted down. I to erase from the roll the names of those who have began now to inspect every passenger, including the forfeited their membership, the Secretaries are, by crew, and found that about one hundred of the pas- special resolution, requested to send to him, annually, sengers were not vaccinated. There was no virus a corrected list of the membership of their respective

#### SECTIONS.

"The Chairman of the several Sections shall prepare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their respective Sections. . . ."—By-Laws, Article 11,

Practice of Medicine, Materia, Medica and Physiology.-Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .portunity to see small-pox (especially among the Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary.

Surgery and Anatomy.-Dr. Nicholas Senn, Mil-Mo., Secretary.

State Medicine .-- Dr. John H. Rauch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas,

Ophthalmology, Otology, Laryngology.—Dr. Eugene Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton, St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nashville, Tenn., Chairman; Dr. W. B. Lawrence, Bates-

Oral and Dental Surgery.—Dr. John S. Marshall, Chicago Ill., Chairman; Dr. A. E. Baldwin, Chicago,

Ill., Secretary.

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting .- By-Laws.

Committee of Arrangements .- Dr. Le Grand At-

#### AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary—all other nomi. nations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J .- Create a new Sec-WM. B. ATKINSON, M.D.,

Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

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No. 10.

# ORIGINAL ARTICLES.

THE PRODUCTION AND PREVENTION OF PERINEAL LACERATIONS DURING LABOR, WITH DESCRIPTION OF AN UNRECOGNIZED FORM.

BY HENRY T. BYFORD, M.D.,

SURGEON TO THE WOMAN'S HOSPITAL OF CHICAGO.

In order to bring my subject before you within the allotted time, it will be necessary for me to confine myself largely to general statements, and to omit many desirable but time-consuming details.

First let me call attention to the peculiar qualities of the obstetric perineum, which, during the previous eight or nine months of passive congestion, has undergone an astonishing amount of development. The muscular tissue has become hypertrophied, the fascia thickened and strengthened, and the loose connective tissue proliferated, until the vaginal and vulval mucous membrane, under the stimulus of labor, roll out at the vulva, in much the same manner as the mucous membrane of the cervix rolls out at the os during prolonged congestion or inflammation about the broad ligaments. Towards the end of the first stage of labor in healthy young primaparae, the vaginal orifice will admit a small hand with but little properties of the provided of the control of the provided of the first stage of labor in healthy young primaparae, the vaginal orifice will admit a small hand with but little provided of the p

For the purpose of illustration we may divide the obstetric perineum into two parts: the vulval or external, and the vaginal or internal. The vulval portion may be said to be bounded above, or anteriorly, by the labia majora and vestibule; below, or externally, by the cutaneous surface between the thighs, the fourchette and the anus; and behind, or internally, by the muscles of the perineum. It is composed mainly of skin, mucous membrane, and loose connective tissue, containing fat, vessels etc. The internal or vaginal portion may be said to include the remaining structures belonging to what is ordinarily described as the perineum. It is composed of the fascia, muscles, ligaments, etc.

In labor, when the occiput presses against the per ineal body, so as to put the muscles and fascia slightly upon the stretch, we can, by hooking the finger over the fourchette into the fossa navicularis, and pulling

<sup>1</sup> Read before the Chicago Medical Society, February 15, 1886.

<sup>2</sup> The term fascia here is confined to the firmer tissue, and not to loose connective tissue, to fails are distinction of parts.

outwards just as a pain is ceasing, and the head commencing to recede, demonstrate two perineal rings. The external or vulval ring, formed by the edges of the labia majora and fourchette, is elastic, of a well-defined oval shape, and attached to the pubic bone above the clitoris. The internal, or vaginal, ring corresponds with the labia minora and edge of the external perineal muscles and fascia. It feels like a whip-cord stretched from the clitoris down through one of the labia minora, across the lower edge of the vaginal orifice, up through the other to its starting point. In figure t these rings are represented as separated below by the finger over the fourchette, as already indicated. (The vulval and vaginal tissues about the rings are not drawn.)

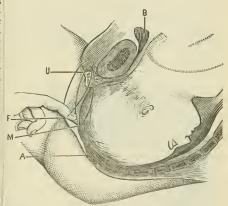


FIGURE 1.-A, anus; B, bladder; F, fourchette, M, muscular edge; U, urethra,

When the head recedes so as no longer to put the vaginal orifice on the stretch, the external ring collapses, and the internal ring disappears. Later, when the parts bulge and become distended, the internal ring, especially the lower edge, is lost in the flattened or quasi-membranous body of the perineum, as in figure 2. But of course it has a definite place, viz., the beginning of the muscular tissue; and extends as far below the fourchette as the length of the antero-posterior diameter of the somewhat stretched fossa navicularis, which connects them internally.

Above or external to this vaginal, or internal, ring will have time to extend the head before the propellsue, fat, vessels, etc.

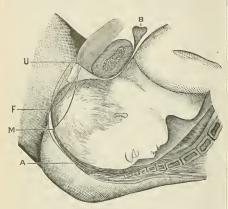


Figure 2.-A, anus: B, bladder: F, fourchette; M, muscular edge; U, urethra. (After Schröder.)

When the perineum becomes stretched four to five inches antero-posteriorly, the lower edges of the rings become still farther separated, and more than an inch of the upper edge of this quasi-membrane is devoid of muscular structure, or firm fascia, as seen in figure 3. It will be noticed that the external ring remains the smaller of the two.

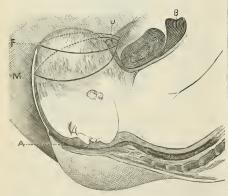


Figure 3.—A, anus; B, bladder; F, fourchette; M, muscular edge; U, urethra. (After Schröder.)

the liquor amnii, pressing under the chin of the feetus, the head is thus seen to be the absence of an efficient

there is, practically speaking, no muscular tissue, but ing force will have driven the occiput forwards, so as only skin, mucous membrane, loose connective tis- to put the perineum very much upon the stretch. When this submental pressure has produced extension as far as it is capable, if the orifice of the parturient canal be sufficiently relaxed or dilated for the apex to engage in it, then the head will easily pass through

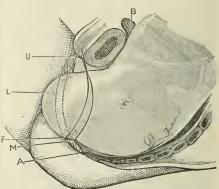


FIGURE 4.—A, anus; B, bladder: F, fourchette; L, liq. amniis.
M, muscular edge; U, urethra.

it (figure 4). If, however, this orifice be not so relaxed or dilated, then the advancing feetal head will stretch the perineum from four to five inches anteroposteriorly, push the fourchette upwards instead of downwards, and drive the perineal rings before it, instead of dilating them and passing through them; and will cover itself with the flattened perineum, in which the muscular fibres are separated, and the fascia stretched to their limit of resistance. (Compare figures 2 and 3 with figure 4.) As the forehead passes beyond the coccyx and ligaments, the propelling force acts against this quasi-membrane somewhere near the region of the anus, for there is now no directing force left except these attenuated muscles and fascia of the perineum.

Now if the pains still be moderate and the tissues unusually strong and elastic, they will finally work up the occiput and draw the edges of the vulvar opening over the head. But the difficulty is this: If the pains be moderate, their pressure being against the neighborhood of the perineal centre of resistance, is counteracted by the almost direct counter-pressure from that centre, and the retractibility of the overstretched and flattened tissues being but feeble, the head remains almost stationary until, as Barnes expresses it, "the circulation becomes impeded, and, after a time, the tissue half necrosed, becomes as brittle as wet brown paper, yielding under the slightest force." ("Obstetric Medicine and Surgery. In determining how the perineum will be affected Rupture is thus almost certain to result. If, on the in labor, we must take into consideration its advance other hand, the pains be very strong, the resistance at over the pelvic floor, where its direct descent is ar- the perineal centre is not powerful enough, and a ruprested. If the progress of labor at this stage be slow, ture must occur. The lost link in the delivery of directing force towards the vulval outlet. Or, to size, will then slip over the head together, and the exexpress it differently, the head has got beyond the ternal perineum be protected behind the internal. reach of its efficient directing forces, before it is delivered. This great mistake of nature, as it thus ap- have lacerations of the vaginal perineum involving pears, has led to the invention of numerous devices the vaginal mucous membrane only, or the submufor supporting or, more properly speaking, managing cous tissues only, or both together. the perineum.

There are five methods of doing this:

the head so as to hold the sub-occiput under and fascia underneath. They are produced by a rapid against the pubic arch.

eal centre by pressing against the advancing head, and thus gaining time for relaxation above.

er portions of the perineum, and so diminishing the agement of the perineum, or a relaxed condition of tension.

4. Artificial dilatation.

four methods for the purpose of securing the delivery through the vulva and skin. of the head between pains.

under three heads: Lacerations of the vulval per- arating "the pelvic fascia just where it is reflected ineum; of the vaginal perineum; and compound from the sulcus on each side over the muscles at the lacerations, or those which involve both of the vaginal outlet." (Medical News, January 23, 1886.) structures.

We may have a rupture of the perineum extending tween these muscles separates, and the muscles from the external to the internal perineal rings, viz., themselves are drawn aside, as a curtain, with often through the mucous membrane of the fossa navicu- not the slightest injury to the skin in front, or the laris down to the edge of the muscles (from F to M, mucous coat of the vaginal canal." (Op. cit.) figure 3), and through a corresponding amount of appearance, especially in fat persons.

tearing through much, if any, of the skin. Forceps, recovers its former contractibility. by rapid extraction or faulty shape, rupture these. Sometimes the posterior tissues are thus lacerated, parts in a large percentage of cases in which they especially along the curve of the advancing forehead,

are used.

this form of laceration is to stretch the external, or the sphincter ani, in such cases, to require many vulval, ring until its lower edge corresponds to the weeks to recover its power to retain thin fluids. The lower edge of the internal, or vaginal, ring, and keep expulsive power of the lower rectum has been genit there. Both rings being practically of the same erally lost, at the same time. Sometimes, on the other

Laceration of the Vaginal Perineum.-We may

The mucous membrane may give way from friction against the head, or from over-distension, yet need r. Supplying the directing force, by pressing up not concern us here unless it involve muscles and advance of the head not giving time for normal 2. Supplementing the resisting force of the perin- stretching, or by the failure of a directing force to push the occiput above the upper edge of the muscles and fascia. Just as the fascia gives way in the 3. Goodell's manœuvre of pulling forward the deep- median line, a falling off in the pain, a timely manthe outlet, either by checking the too rapid advance or finally directing the occiput through the vulva, 5. A combination or modification of some of these allows of delivery without entension of the rupture

In this class belongs the variety described by T. A. Emmet, in which a transverse, or circular, lacera-Almost all lacerations that occur may be described tion takes place at the internal or vaginal ring, sep-When this "transverse tear takes place, and the Laceration of the Vulval or External Perineum. head continues to advance, the connective tissue be-

If, however, the vaginal mucous membrane be sufskin externally. After delivery the torn surfaces ficiently loose and voluminous to remain intact durrepresent two isosceles triangles, whose bases meet ing the separation of fascia along the median line, in the median line, and whose apices are the torn or the rending of muscle laterally, and the progress corners of the fourchette. The tear through the cu- of the occiput be then checked and guided by a taneous surface will in some cases be extended much proper directing force, we may have a purely subfurther, laying open the loose connective tissue down mucous rupture. But we may also have a descent of to the external anal sphincter. In addition to this the head which will not be rapid enough to thus tear lesion we may have a transverse rupture across the whole muscles apart, yet so rapid that, when the perposterior portion of the vestibule, just in front of ineum is stretched to its utmost limit, and the line of the vaginal orifice, giving to an almost harmless form advance of the head is pointing towards the perineal of laceration an exceedingly ragged and threatening centre of resistance, the muscles and fascia will become over-distended, and the fibres and tissues give Such lacerations are produced when the perineum way all through the membranous cap without impliis stretched from four to five inches antero-posterior- cating either the vaginal or cutaneous surfaces. Such ly, and the internal, or vaginal, ring being larger and is not a very uncommon occurrence in malpresentaextending about an inch and a half lower than the tions, and in forward rotations of the occiput. The external, or vulval, ring, suddenly slips over the ad-main evidence of this form of diffuse laceration is a vancing forchead and drags the insufficiently dilated soft and dilated condition of the parts, persisting vulval ring so rapidly after it as to tear it. The transverse rupture may occur first, and the other afleast some evidence of returning tonicity. The terwards; or efficient management may enable the condition is similar to that of the anus after one of head, and even the shoulders, to be born without those rapid dilatations from which the sphincter never

or of the forward rotating occiput, without any injury The simplest and most rational way of preventing to muscles about the vaginal outlet. I have known sion of the entire pelvic floor" (Mundé); "over- abdomen and external perineum, or hot hip baths. stretched muscles and fascia" (Emmet, Polk); "sub- Compound Lacerations.—Of the remaining class

Cleveland, and others), etc. usefulness to the perineum.

form of laceration with that condition of the parts in will occur, and then be made to pass through the old primiparæ, in which there is but little or no rup-ture of muscular fibre, or of the superficies; but the head and body of a child can hardly pass through extensive and severe bruising, and a subsequent delay a central median rupture without involving either the in contraction until the preventing inflammatory in-sphincter below or the septum above. Finally, we duration abates. Contraction may not commence may have a diffuse submucous laceration, becoming for several, days and may not be completed for complicated, later, with other varieties. a couple of weeks. In such cases the parts are of course very much discolored and benumbed. The perineum seems like a thick piece of soaked or soft-taken as a representation of the usual forms, and ened leather, and retains a somewhat wrinkled cap- methods of occurrence, of perineal lacerations. Preshape for many hours. The introduction of stitches vention, applied to them as a class, would, according to draw the parts, thus injured, into shape is not only to the observations presented, involve two principles: difficult, but decidedly harmful.

by securing a slow advance of the head over the tearing. deeper and posterior portions, and by directing the put up under the symphysis through the already and vaginal orifices or rings. dilated outlet. This descent of the lower edge of

hand, the muscles about the vaginal orifice will be ing without weakening, as does a normal advance the only ones to suffer. While these diffuse sub- and recession of the ovum; they can with difficulty mucous lacerations, whether general or regional, have be used without increasing the discomfort and anxiety not been recognized as lacerations, their effects have of the patient; they are less efficient for the relief of been noted. They have been called "over-disten- irritability of the parts than hot applications to the

involution of the uterus and vagina" (Murray, Polk, of perineal lacerations, or those in which both the vulval and vaginal portions are concerned, In order to bring the ends of broken fibres together, the simplest form is that in which the superficial musthe perineal body should be gathered up by two or three cular fibres give way in the median line along with the stitches taken from the cutaneous surface, and avoid-fourchette. This occurs with a rapid delivery of the ing puncture of the vaginal and rectal mucous mem- head, as in forceps cases; and especially during great branes. Otherwise normal involution and contraction bulging of the perineum, when the posterior portions may never occur, and permanent displacements of have been dilated, and the last few insufficiently the pelvic viscera will result. The perineal tissue dilated fibres about the vaginal ring unable to stand may then be likened to a worn-out elastic suspender, the stress of a strong pain. The advancing forehead in which the rubber threads are broken and the elas- may extend the laceration down to or through the ticity gone. Its length may be reduced by removing sphincter ani. Emmett's T-shaped laceration may a piece and sewing the ends together, but its elasticity result from this kind of strain, and then involve the can never be restored without putting new rubber into vulval portions. Or the laceration may commence it. A fortunate circumstance in connection with in the vagina, below the vaginal orifice, and then be such cases is that in some portion of the tissues completed externally by the advancing head or enough unruptured muscular fibres, or uninjured shoulders. Or if pains be strong, and particularly fascia, may be left to act with the skin as a brace to if the sacrum and coccyx be insufficiently curved, the rest, and, with the aid of hot douches at 115 to the head may push on through the perineum at the 120° F., and rest in bed, may restore a fair degree of sphincter of the anus, and leave an upper portion intact. Or the head may rapidly distend the peri-Care, however, must be taken not to confound this neum above the anal sphincter until a central rupture

These, though by no means all, may, I think, be

1. To make the advance of the head slow enough Laceration of the vaginal perineum is prevented to allow the parts to dilate to their utmost without

2. To secure sufficient dilatation or relaxation of occiput upwards, under the pubic arch. The proper the vulval and vaginal orifices to bring their axes to way to secure this directing force is to dilate the vul- correspond with the axis of the parturient canal, so val and vaginal rings, so that the occiput will engage as to enable the head, as it gets beyond the influence in them before the forehead has got beyond the liga- of uterine and pelvic directing forces (the amniotic mentous perineum. Then the lower edges of the fluid, the pubes, sacrum, coccyx, ligamentous peritwo rings become a directing power and lift the occineum, etc.), to find a directing force in the vulval

In endeavoring to diminish the rapidity of the the rings brings the tissues together in a solid mass progress of the head, it is well to take two points near the anus, and renders them capable of meeting into consideration: 1. That uterine action becomes any ordinary propelling force without danger of rup-turing. The meddlesome and unnatural practice of increased length and frequency, rather than the inusing hot vaginal douches, for relaxing the perincum creased force, of the contractions (Schatz). 2. That before delivery, cannot be too strongly condemned. when the head is capped by the membranous peri-They wash out the natural secretions and leave a neum, and therefore is not delivered until it has comparatively dry and irritable mucous membrane, passed entirely beyond the bony pelvis (figure 3), thus increasing friction and danger; they either con- the uterine contractions have at last almost no direct tract the tissues or lessen their tonicity, seldom relax- effect upon its advance, and the abdominal pressure or straining of the mother becomes the chief pro-

pelling force (Schröder).

Hence, if we wish to diminish the propelling power during the passage of the head through the pelvis, we may often with advantage give remedies which will act between the pains to diminish their frequency, such as opium, chloral, etc., yet without very much affecting their force. Chloroform, given only during pains, diminishes their force without much affecting their frequency. Later, when the abdominal muscles are the prime forces, we may regulate the advance of the head by controlling them.

The prevalent practice of accelerating the progress of labor until the head greatly distends the perineum, and then using counter-pressure to keep the vulva from being lacerated, is to deliberately injure the pelvic floor, and then court rupture of the uterus.

Perhaps the best means of securing a normally slow advance of the head is to preserve the pouch of mem-

none at all during pains.

fices has been advocated by Ernest Trestrail (1875), Mossman (1880), Alex. Duke (1883), and Alfred of these orifices, and has practiced it with gratifying results (Montpellier Médical, August, 1883,-"Dilatation Præ-fætale de la Vulve"). In my own practice I utilize the pouch of membranes for this purpose also. The vulval and vaginal orifices, being relaxed and everted, are, in most normal cases, less resisting to the pouch than was the os uteri. After being dilated by the pouch, they allow of the rapid passage of the head, thus shortening, and greatly lessening, the usual anguish of the last moments of labor; and reversing the fashionable mode of hurrying up the second stage to save pain, and then checking the advancing head at the final period of severest suffering.

when the bag of waters persists, the perineal rings theory was taken up and made the subject of several are better prepared for the delivery of the head while the forehead is still on the sacrum, than they are after the chin has passed the coccyx, in those cases asylum for the medical care and treatment of inebriwhere the membranes have been ruptured at the end of the first stage. Besides this, the head has a third less distance to travel during the second stage until born, and thus takes a third less time at a given rate

of advance.

chette, I only seek for an imitation, in all cases, of curability. In 1859 a similar hospital was begun in the mechanism that sometimes occurs in young Boston, now known as the famous Washingtonian primiparæ, and often in multiparæ, where the vulval Home, with Dr. Albert Day as Superintendent. and vaginal outlets are normally, and therefore During the twenty-five years of its existence almost greatly, relaxed; and where neither pouch presents 8,000 patients have been cared for, "some of whom nor fingers interfere. There is much less work either for the pouch, if left alone, or the fingers, if properly used, than is generally supposed. But that little work the Binghamton Asylum received 7,000 patients for is often of prime importance.

3100 Forest Ave.

## A PLEA IN BEHALF OF A NAVAL HOSPITAL FOR INEBRIATES.1

BY FREDERICK HORNER, M.D.,

OF MARSHALL, VIRGINIA.

In this paper it is proposed to discuss: First, the history and origin of hospitals for inebriates; Secondly, the presentation of facts to prove that inebriety is a disease; Thirdly, the value and results of institu-tional treatment; and Fourthly, the present necessity of a special hospital for the treatment of inebriates

of the Navy.

First.—Dr. T. D. Crothers, in a paper read before the London Branch of the British Medical Association, states that "the earliest organized effort in modern times to prevent inebriety was a temperance society which began in New York State in 1828." I may add that two years previously, in 1826, a like organization was started in Boston. The object of these societies branes. This may be done by keeping the patient was to aid others in pledging themselves to abstain quiet, discouraging all violent bearing down efforts, from the use of all intoxicants, and to help each other making but few digital examinations between, and to carry out this resolution. The Washington societies began in 1840; this movement was greatly promoted Artificial dilatation of the vulval and vaginal ori- by the labors of Father Mathew, an Irish prelate, by Mr. Gough, and Neal Dow, who gave to us the Maine liquor law. Subsequently friends and Sons of Carr (1883). Latterly, Professor Leon Dumas has Temperance carried on this great work, and since the developed a very efficient method of digital dilatation late civil war the Gospel Temperance and Good Templar societies, perfecting the system which at present embraces the social, moral and religious elements of man's nature. The need is for these classes fully to comprehend the fact that inebriety is a true disease -a widespread epidemic-and to be successfully treated comes within the domain of preventive medicine, and to be relieved and cured must be submitted to the treatment of special and fully enlightened physicians. In the exhaustive address of Dr. Crothers, he adds that "the first period, the rational or scientific epoch, began in 1790, when Dr. Rush, a distinguished physician of Philadelphia, urged that inebriety was a disease and should be studied as such; a physi-A comparison of figures 3 and 4 will show that ological and not a moral condition. In Europe this papers which have become historical."

In 1852, Dr. I. Edward Turner projected the first ates. A new era dawned when the labors of this great philanthropist culminated in the opening of the New York State Hospital. During its brief existence of fourteen years 2,344 inebriates were treated. This enterprise attracted the attention of the world, and In thus advocating a bringing down of the four-clearly demonstrated the disease of inebricty and its are now heard from, now honored citizens and performing well the duties of life." During fifteen years treatment, and from the study of over 2,000 cases five years after the period of treatment in the asy-

Read before the Naval-Medical Society,

are small and empirical in their theories, and many Dr. Cabanis, of Paris, wrote "that inebriety, like of them are broadly scientific in plans and appli-insanity, was a distinct form of mental disorder needdetails are quoted, "suffer from want of legal aid to was sure to follow. restrain fully such cases, though everywhere these means for recovering.'

hospitals for all.

odotus wrote that "drunkenness showed that both impulse for intoxicants. the body and soul were sick, and had destroyed many kings and noble people." The Greeks enacted laws condition of the victims of the disease is of great the disease into acute and chronic forms, giving many of mankind who become victims of this disease—a

lum, sixty-two per centum were found to be temper- of the causes, among which heredity was prominent, ate and sober. There are thirty asylums for the and urged that special measures be taken in the treattreatment of inebriates in America. Some of them ment, and in a hospital for the purpose. In 1802, ances; one of the largest is for women, and when ing medical care," an opinion sustained also by Prof. completed will contain 300 rooms. The late Dr. J. Platner, of Leipzig, who claimed that the insane im-Marion Sims was President of this institution, which pulse of the drunkard ought to be studied by the is located in Connecticut. All of these asylums, light of science. Esquirol, in 1818, described a remarks Dr. Crothers in the Report from which these condition of the nervous system in which inebriety

To two eminent American physicians, Albert asylums are building up public sentiment in the di- Day and T. D. Crothers, may be awarded the rection of physical means and methods of treatment. credit of establishing beyond all questioning the The first effort to study the facts as they appeared facts to prove that inebriety is a disease. In a from a scientific inquiry began in 1870 in the organ-paper, "Inebriety and its Cure," read by Dr. Day ization of the American Association for the Cure of before the Suffolk District Society, he says: Dipso-Inebriates. This Association is composed of physi- mania is a term applied to a peculiar form of insanity, cians who accept the general principle that inebriety designating that uncontrollable impulse towards the is a disease, and is curable as other diseases are. To use of intoxicating liquors which is felt by some perthis end asylums are essential, or special quarantine sons at certain periods, and contradistinguished from stations where the victim can be housed and receive the craving thirst of the daily moderate drinker. exact physical care, until the causes are removed and Alcoholism is the name of all diseases in any way the patient restored—the victim himself being held found to be due to the use of alcohol, and applies responsible, like the small-pox patient, to use every to the collective symptoms of a disordered condition of the mental, moral and sensory functions of the Legal enactments in Europe and in this country nervous system; these symptoms, according to Dr. have been passed, giving full control over the inebri- Magnus Huss, of Stockholm, in his work on "Alcoate—the most advanced of which are in the State of holism," may assume a chronic form, and without Connecticut and in New South Wales. Of the thirty being immediately connected with any organic manasylums in the United States established during the lifestations of the central or peripheric portions of past quarter of a century, twenty-six survive. The the nervous system which may be detected during necessity of hospital treatment for inebriety is thus life or discovered after death by ocular inspection. necessity of hospital treatment for intentity is thus because the established beyond all question. Public sentiment Dr. Crothers claims that "all the symptoms of ine-is enlightened, and under the inspiration of a Christian civilization over a thousand temperance coffee and lodging rooms and Sailors' Homes where no the inability of the patient to cease the use of spirits. liquor is sold have been opened in this country. By is because of the nerve degeneration which has octhese efforts, they recognize the value of physical curred; then follow functional and organic disturbaid, the necessity of food and rest in order to restore ances. From hereditary causes there may be also the diseased will. The Women's Christian Union further proofs of a defective organism; that inebriety maintains most of these places. In these Homes, is an inherited disease can be clearly proved. The the value of a single day's restraint, with good food poorer classes, from lack of suitable nutriment, resort and quiet rest, is seen in the help to overcome the to stimulants, while the more wealthy from continuous diseased appetite. They are literally the first efforts excess develop nutrient degenerations. The over of the masses to treat inebriety by rational means, mental work and sedentary habits of literary men of and the beginning of a great movement to establish unstable mental organization, disordered emotional faculties and unbalanced nutritive functions, constitnting the inebriate diathesis, sometimes prove to be Secondly: the presentation of facts to prove that causes affecting injuriously the offspring and predisinebriety is a disease.—The writings of the ancient posing to inebriety. The organic degenerations are Greeks and Romans sustain this proposition. Her-marked by anaemia, neuralgia, and a sudden insane

forbidding women to use wine. In the writings of significance. The shock arising from injury of the the thirteenth century drunkenness and madness were brain or spinal cord by a blow or fall, coup de soleil, mentioned as synonymous terms. In 1747 Condil- railroad accident, from the effects of lightning, or relac, a French author, declared that the State should verse of circumstances followed by neurasthenia and recognize and provide means for its treatment, "since ill-health, if treated with alcohol, may develop the the impulse to drink was, like insanity, an affection symptoms of acute and even chronic inchriety. The of the brain." In 1790, Dr. Benjamin Rush sustained religious revivalist, the disappointed student, and the this theory by a long train of reasoning. He divided business man who fails, are examples of the classes

influences in the early training of the young. Like Dr. C. Murchison, the author of an excellent many other diseases, it is more prevalent at certain treatise on "Continued Fevers in Great Britain," periods of life-that of puberty is full of danger. It says: "A single act of intoxication or debauch preappears, according to Dr. Mason's statistics of 250 disposes to typhus;" adding that there is no greater cases, most frequently in ages from 15 to 25 and error than to imagine that a liberal allowance of alcofrom 30 to 35 years. The craving or desire for spir- holic stimulants fortifies the system against contagious its is periodical with some individuals. A seaman, diseases. In Dr. Murchison's "Lectures on Func-Noah-like, thus suffers when his cruise or voyage tional Diseases of the Liver" before the Royal Colends; this class sometimes lose all consciousness of lege of Physicians in London, it is asserted that the right and wrong and have no control over the actions prevalence of beer and spirit drinking and conseof the mind or body, and become insane or criminal. Guent liver clogging accounts for the widespread use Firemen and night workers soon become inebriates. These are Dr. Day, in his Report of the Washingtonian Home, all of a purgative character, and give temporary relief 1884, says "the inebriated man appears to act the to the overwrought liver, but help to shorten life. part of one deranged in intellect, body and mind Dr. Norman Kerr, in the discussion of diseases alike suffer, and a hideous list of nervous failings due to the abuse of alcohol, states that probably sixty prey upon his shattered frame and prove fatal in the per centum of the cases of erysipelas were occaend." He adds that "the public must look to the sioned by it. The use of beer produces a species medical profession for proofs that inebriety is a disease of degeneration of all the organism—fatty deposits, and is largely the outcome of physical injury. It diminished circulation, congestion of the viscera and begets various forms of insanity, transmits to progeny local inflammation of both the liver and kidneys. a defective brain and an ever-present anæsthesia. Intellectually sometimes a stupor amounting to par-wherein the coördinating structures are impaired in alysis, and arrest of the reason, changing all the substance or in function by the intervention of hyper-higher faculties into mere animalism, selfish and slugplasia, excessive cell formation of the interstitial gish, varied only by paroxysms of anger that are tissue, the unoccupied spaces between the molecules. brutal. Its constant use gives the body no recuper-A brain so injured ministers to moral incapacity, end- ation, but steadily lowers the vital forces. It has ing in a morally depraved character. Criminals by been remarked that the most dangerous class of birth, though they may never drink, they are thieves ruffians in our large cities are beer drinkers. Hence and perjurers; and, alas, it may be asserted that the the conclusion that inebriety leads to criminal acts is whole race of man now, with few exceptions, by the undoubtedly true. drinking habit and the abuse of the liquor traffic, is Dr. B. W. Richardson said before the Edinburgh tainted with alcoholic disease from which come pov- Society of Arts: "Alcohol, instead of raising, lowerty, disease, crime, and the most burdensome taxa- ers the temperature of the body. After a drunken tion. Inebriety is a foul disease, more destructive to stupor it takes three days to restore the natural human life than all other diseases combined, enslaving warmth. The development of fat from its use is mankind in bondage second only to what Satan simply due to structural degeneration of the vital achieved for Adam's race in Eden." Dr. Frederick C. organs. Hence alcohol is not in a proper sense a Shattuck says "the high mortality of acute pneumonia food. It accelerates the action of the heart from in the intemperate is no new observation, but the facts 100,000 to 125,000, followed by a proportionate would seem to show that alcoholic excess is not only weakness. The heart becomes enlarged and its an important factor in determining the issue of this valves disordered, and the brain, by the increased disease, but that it is often of itself the actual cause flow of blood to it, is rendered for the time more of it. Thus it is that pneumonia owning this origin active and is succeeded by greater feebleness, which is at all ages the most fatal form of the disease known demands the repetition of the stimulus. Among the

of drunkenness alone, which are delirium tremens, drunkenness not a single organ of the body escapes cirrhosis of the liver, many cases of Bright's disease disorganization of its vital structure, though heredity of the kidneys, and the dipsomania of insane drunk-

disease traceable often to conditions of exhaustion of enness, and also other diseases in regard to which the brain. Dyspepsia, which disturbs the nutritive excess in intoxicants acts as a powerful predisposing functions of the body, is a predisposing cause, and cause, such as gout, gravel, aneurism, apoplexy, epiinduces a condition happily designated by that pro- lepso, cystitis, crysipelas, spreading cellular inflamfound expounder of this subject, Dr. Crothers, "psy-mation, tendencies of wounds and sores to gangrene, chical traumatism," in which the brain and nervous and inability to resist the diseases at large." In exsystem have lost some power of restoration by which amples of epidemic continued fevers he had known their integrity is preserved, and take on conditions but a single case of an intemperate man of 40 and favorable to the development of inebriety. At first upwards to recover. Four fifths of his cases of alcohol is used for its sedative property; second, to Bright's disease were produced by alcohol. All pracrelieve the pain of neuralgia or gastralgia. Hence the ticing physicians who have treated epidemic cholera world-wide resort to "bitters," so lauded by empirics, or yellow fever know that the maximum mortality Among the predisposing causes may be cited bad occurs to the intemperate classes of society.

effects of deterioration in those who drink moder-Professor Christison, of Edinburgh, declares: "I ately are various neuralgic pains, the worst form of recognize certain diseases which originate in the vice indigestion, and wakefulness. At a later stage of

tion on a particular organ—the liver, the kidney, the to be the best yet discovered to ensure a complete lungs, the heart, brain or spinal cord." This author and permanent cure for reforming the evil. The concludes that if any form of alcohol do really for victim is thereby withdrawn from associations of the moment cheer the weary and impart a flush of temptation, is received with kindness, and having transient pleasure to one who craves for mirth, its first expelled the evil within him, is reawakened to influence, an infinitesimal advantage, is obtained by self-respect, and after a time is restored to the comthe side often of an infinity of evil for which there munity with a sound mind in a sound body, and is no compensation, if a cure. The proofs thus fur- becomes again an active worker in the great human nished by the writings of the most eminent medical hive-useful to himself and a source of happiness to authorities, that inebriety is a disease, and also productive of other diseases, may be summed up in the utterances of Dr. Joseph Parish, that it cannot be aims to promote in them true virtue, total abstinence denied that, 1, it is a disease, and with specific sympand true piety, to stimulate their own exertions for a toms; 2, there is a condition of the nervous system better knowledge of God and His laws, and for a with which some men are born that predisposes them determined self control. In this era of practical to alcoholic indulgence. Hence the inebriate must atheism and morbid materialism among a certain be treated as other diseased human beings, and not class of physicians, the sentiment expressive of faith ostracized by society and branded as a criminal, and in God and His word which Dr. Day commends to be driven an outcast beyond the pale of human sym- his patients is deserving of praise, since the true phypathy. In his behalf the laws of hygiene must be sician has ever to remember that he is only the hontaught in their highest sense, and a curative and ored instrument of a superior power in relieving humane treatment be adopted.

inebriety follows the same laws as other nervous dis- cure inebriety in civil practice or on board ship have eases, a predisposing cause being a civilization at failed. While due prominence has already been given the present day demanding a great expenditure of in this paper to the treatment of the inebriate in an nerve force and brain work, while among the exciting asylum, and full concession made to the wisdom of causes are alcohol, opiates and chloral, which, by those who have advocated institutional treatment acting in a secondary manner upon a low nerve and yet deny that there is any vice connected with power, produce the diseased condition known as the disease, which is called inebriety, we are instructdipsomania. The disease never exhibits itself till ed to the contrary plainly by the teachings of the alcohol has been consumed, resulting in the poison Bible. This sacred book declares that drunkenness of the blood and the arrest of the healthy operation is a sin so offensive to the Diety that by Hebrew law of the nervous system. It attacks the higher facul- the victim was stoned to death, and under the new ties, dethrones the reason, retrogrades its victim to a testament, or Gospel, dispensation, such an offender level with the brute, and in its chronic form is in- will at death be deprived of the joys of Heaven. ducive of mania-a-potu, epilepsy and insanity. If Hence, as Christian physicians bearing the mantle cholera and other plagues have slain their thousands, of the great Physician who alone delegates to us the inebriety annually destroys its ten thousands. The wisdom and force to heal the drunkard's bodily ailwhole subject embraced within this division of my ment, we can, also, present to his heart and contopic comes within the domain of *preventive medicine* science the consolations of the Christian religion. as clearly as any single one of the zymotic diseases, Thereby we strive to lift him to a higher life and reand so soon as the medical profession will direct their mind him of the solemn warning which the Bible attention to its recognition, prevention and cure, will conveys, that "no drunkard shall enter the kingdom mankind be freed from the most dire scourge which of heaven." can afflict the human race.

maladies of the body or mind; and, after all, it is only These opinions are also ably maintained by Dr. "God who healeth our diseases." It can readily be Albert Day, who declares that "the inheritance of proved that all attempts to treat successfully and to

Fourthly: The present necessity of a Special Hos-Thirdly: The value and results of institutional treat-pital for the treatment of inebriates of the Navy.—ment.—On this part of my subject I regard the testi- In a late letter received from Dr. Albert Day, he mony of Dr. Albert Day as furnishing an unanswerable says: "It seems to me fortunate that you are to argument in favor of the value and success of institutional treatment, as tried during the past twenty-unfortunate victims of inebriety in our Army and eight years at the Washingtonian Home. Dr. Day, Navy. A large number of men have come under in his Report for 1885, says that one of the earliest my care during the past thirty years, and in all resresults of hospital treatment was the discovery that peets from inebriety they are the best and most ininebriety is a disease rather than a vice proceeding telligent in the service. Should the Government from the creation of an artificial appetite, and it never establish such an institution we should hear less of exhibits itself until alcohol has been consumed. Dr. insubordination, disgraceful conduct and self-destruc-Day has treated over 10,000 cases, and by statistics tion. Under proper asylum treatment a large per demonstrates that asylums, properly conducted, are centage of these men could be saved to the service an actual saving to the State in dollars and cents. and their families." He adds: "I have been en-The instances of relapses have been less than is gaged in this work nearly thirty years and I am apgenerally supposed. This method has at least proved proaching the end. I can truly say that I am more

satisfied with the results of my life's labor than I at with her crew, from shipwreck. His exposure to a the first anticipated. But the work has been a suc-tropical sun, in an open boat, to discover a safe cess. I often meet persons rescued from the most channel for the escape of the vessel, was of course degraded form of intemperance; they are now worthy the occasion of great mental strain. On returning and honored citizens, who can date their cure back to the United States subsequently, can there be any

to twenty or more years."

authorities established a hospital for the insane of a court martial convicted him of drunkenness, and the public service. The suggestion first made by sent him into the world a disgraced and ruined man. that great philanthropist, Miss Dix, was successfully carried into effect in 1858 by Dr. Charles H. Nichols. least, one of the various Naval Hospitals now ap-There can be no question from the facts presented propriated for the treatment of the sick and wounded in this paper, that for nearly thirty years the experi- might be judiciously set apart for the special care, ment of hospitals for inebriates in nearly every State relief and cure of the unfortunate victims of inebriety in the Union has been successfully demonstrated in of the Americal Naval Service. this country as well as in Europe. The Naval Surgeon should, in the practice of preventive medicine, be convinced that the disease inebriety, occurring in the line of duty to officers or seamen, should have the benefit of special treatment in a hospital instituted for this special disease. The Annual Report of the Surgeon-General of the Navy notices a certain number of cases of acute and chronic alcoholism, and of delirium tremens, say one-fifth, rightly in-only the cure of disease, but, infinitely more import-cluded under the head of "Poisons," as occurring in ant, the prevention of sickness and of suffering. the various squadrons at home and abroad, at the Students of the medical profession-and, as long as navy vards and in naval hospitals. Among this we are faithful to our calling, we who are known as number there must be cases discharged uncured. In medical doctors must also be students—investigate the North Atlantic Squadron, under the head of matters pertaining to prevention and cure in every "Poisons," which includes acute alcoholism, vulnus direction. To one the ability is given to contribute venatum, colica pictonum, etc., the ratio per 1000 of books of instruction; to another records for referthis class is set down in the Report as to. In the ence; to others instruments for operative surgery, European Squadron, under the head of "Poisons," instruments for diagnosis, appliances for deformities, 17 per 1000 is the number given; 13 admitted, 12 apparatus for the relief of the injured, appliances to discharged and 1 invalided. The Report concerning protect against deadly pestilence, and the simpler the sanitary condition of the various hospitals also articles to aid in general hygiene. There are many furnishes examples of acute and chronic alcoholism workers, and much material offered for inspection and ebriositas; 31 cases admitted, 30 discharged, and which must prove worthless and useless. From the 1 invalided. Such facts are suggestive that, what great gathering of the efforts of thousands some ever precautions may be adopted by the medical things prove of value and are accepted and are perstaff of the Navy to eliminate inebriety from the pub- mitted to do useful and honorable service. All canlic service, the experiment has failed. The attempt not be utilized. Some things must be rejected, but at treatment on board ship, as in civil practice, has the faithful worker brings his offering to the profesalso failed, but not so has institutional treatment.

Mready the naval surgeon has won an advanced of his seniors. position in the departments of sanitary science and of preventive medicine; indeed, he is fully qualified War of the Rebellion in this country has had its to discharge all professional duties as a surgeon and good effects all over the world. The lessons learned physician according to all the light which medical by our medical officers and sanitarians have been made fail to apply the most enlightened medical and insti- of military hygiene is of the utmost importance. The tutional treatment to an inebriate on board ship, preservation of the health of the soldier, with a view disgrace or expulsion from the public service for ment. The poetical and romantic in uniform and drunkenness of an efficient officer or a valuable sea- ceremony must fall before the searching analysis of just method was practiced prior to 1859, though it dier, his food, clothing, camp, arms, recreations, ducan not be sanctioned at present. In one case, of ties, physical condition, morality all these and many which the writer was cognizant, the greatest wrong more must interest those who have the soldier's real cer, whose valuable services saved a sloop-of-war, fective as a fighting man, must be able to go on the

surprise that this officer in an evil hour was tempted It required three quarters of a century before naval to acts of intemperance? And yet the decision of

Finally, the suggestion may be ventured that, at

# A NEW CLOTHING CASE FOR THE SOLDIER. BY W. THORNTON PARKER, M.D.,

OF NEWPORT, R. I.; LATE ASSISTANT SURGEON U. S. ARMY.

The science of medicine has for its purpose not sion and patiently waits the verdict of his peers and

The experience which was won by the dreadful and surgical science has reflected upon the human use of in every war since, and the valuable records mind. Hence the query, will be not be derelict to are stored ready for future instruction. The study as well as in a special hospital, rather than to fur-to increasing his effectiveness and diminish the causes nish testimony before a court of inquiry or a court which weaken, injure and invalid him, are worthy martial as a witness, thereby ensuring the summary of the most careful study, investigation and experiman? The latter cruel and, in many instances, un- the practical question. All that relates to the solwas inflicted upon a talented and efficient naval offi- and lasting welfare at heart. The soldier, to be efbattle-field in a condition of strength and general out, struggling to keep up appearances and bear, in "smartness." The valuable property of the soldier, a soldierly way, their "pack." It was an easy matcalled "esprit de corps," must suffer very decidedly ter to estimate how many, from the weight of the when the body is exhausted and when the "mob ac-knapsack, must soon break down and become useless

It is the purpose of this paper to treat of only one detail in the soldier's make-up, and although that we have been considering, I have devised a "Marchmay seem to the general observer unimportant, a ing Clothing Case," which very many of the officers more important subject could hardly be considered. of the United States Army, and also officers of the It was the experience of many army officers, during the War of the Rebellion in the United States, that and highly approved of. The Newport Medical Sosoldiers, although provided with the best knapsacks ciety, at the regular monthly meeting held Decemwhich could be manufactured, invariably threw them ber 2d, formally approved of this Case, and have away upon long marches, together with the clothing recommended it to all army boards for use, instead contained in them, rather than endure the fearful of the knapsack. physical suffering which resulted from carrying them. Those who were determined to save some extra cloth- cloth, and when completed it weighs but a fraction ing did so by wrapping it up in the rolled blanket or of the weight of the average knapsack. It is manovercoat, which they wore over the left shoulder, ufactured as follows: During the Franco-Prussian war many regiments transported their extras wrapped in blankets or overcoats and worn swung over the left shoulder. The ends of the overcoat or blanket were secured by straps or cords at the right side. The right arm and shoulder would therefore remain free for the carrying of the rifle, and easy movement for loading, aiming, markably similar in appearance in the German, Aus- and dividing it into three pockets by a few stitches fare and liably to long marches, especially when the extra pieces of clothing, and the "soldier's book." quartermaster's train has failed, or when the rapid wagons and horses.

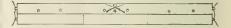
and even fall in ranks at Sunday morning inspection, ruined with mud and rain. after carrying the knapsack only a short time. The distress from the weight of the knapsack often causes for knapsack or clothing bag, and can be manufaca large per cent, of stragglers and sick men before tured easily and quickly, and at a trifling expense dreadful pack on their backs. The pressure and against musket balls. contact of the knapsack heats and weakens that pordier to additional chances of taking cold.

for the war, in what is called heavy marching order, of arms. must have noticed countless men already nearly tired

as fighting men.

To remedy some of the defects and dangers which

The Case is made of light canvas or waterproof



A strip of cloth four feet long, or four feet six firing, charging, and other exercises of the soldier inches is a better length, by sixteen inches wide, is could all be promptly executed. The different forms folded to make a pocket six or eight inches deep. of knapsacks which I have examined, although re. This is done by making the covering flap lengthwise, trian. French, English. Dutch. Italian, Swiss and across at a third of its length, making three equal American armies, are clumsy, heavy, and too fa- divisions. Six buttons hold the flap in place. Loops tiguing for the soldier's use in peace, even, much less at either end enable the soldier to wear it secured at useful in time of war. The necessity for the easy the ends without its being rolled in blanket or overtransportation of the soldier's kit by the soldier is coat. This Case will hold one pair of drawers, two often of the greatest importance when in actual war- flannel shirts, two pairs of stockings, towels and other

It is useful in that it can be worn for days without movement of armies is necessary, without the aid of giving fatigue, and the weight is so evenly distributed that the soldier does not suffer from carrying it The knapsack is especially undesirable because its or feel disposed to throw it away. Upon reaching straps draw heavily against the muscles used in res- camp the blanket can be unrolled and the Case hung piration. The tugging of pack impedes the act of up or thrown in the corner, the clothing remaining respiration very greatly, especially when the body is in the Case clean and undisturbed. When the clothfatigued. The oppression caused by the weight of ing is rolled loosely in the blanket, upon reaching the knapsack, and its interference with normal breath- camp the blanket is needed and the contents are ing, is so great that I have seen soldiers faint away likely to be scattered about the tent and soiled or

This Clothing Case does away with the necessity the troops even reach the battle field. An army is compared with the cost for the manufacture of knapthereby deprived of many men of excellent courage sacks. No clothing case could be more easily carand intelligence who would, by their presence, have ried than one suspended from the shoulder. It can aided much in action towards the general success, be used at all times, even in action, and would then but whose physical resources were not equal to the offer considerable protection of the vital organs

It is intended that this Case be worn in the rolled tion of the body against which it rests, and after blanket or overcoat suspended from the left shoulreaching camp or a halt its removal exposes the sol. der, giving the right arm full play and allowing, as we have seen, the utmost freedom in the perform-Any one who has witnessed the departure of troops ance of the most important exercises of the manual

Newport, R. I., December, 1885.

# MEDICAL PROGRESS.

Peniæum" MR. C. G. WHEELHOUSE said that by its division with the knife is the only way to do it. London Surgeons, as a rule, the operation of "stretching the sphincter" is neither recognised, nor taught, We assert, and we assert it upon abundant practical nor appreciated; indeed, I have heard of its being experience, that careful, deliberate, and efficient scouted, as unsurgical and unnecessary. Introduced stretching will do all that incision will do, and, doing into Leeds by the late Mr. Teale, the practice of it without causing any external wound, will subject "stretching," in preference to "cutting," the sphincter the patient to far less risk than is possible by incision. has been upheld for twenty-five years at least, and of Some of you may smile at the idea of there being late years has rather grown than declined in your any risk in so simple an operation as division of the favor. The principle upon which it is based is, of sphincter, but there are such things as accidents: Sir course, the one formulated and eloquently preached James Paget has most appropriately termed them by the late Mr. Hilton, that the true cure for parts "catastrophies of surgery," which ought never to be suffering from irritation is to place them physiologic- forgotten and should be avoided, where possible, by ally at rest; and the ground upon which we prefer it any amount of foresight on the part of the surgeon. is, that by it we can attain our end without causing One such, in connection with the subject under conan external wound, and thereby rendering our patient sideration, happened to me in my early days; and, liable to septic poisoning.

the sphincter, to guard the rectum from the involun- painful fissure of the anus, I passed a bistoury along tary discharge or escape of its contents. This, so its track, divided its indurated base, and, with that, long as the rectum is at peace, it is capable of effect- the resisting sphincter underlying it; but in less than ing easily, perfectly, and without strain, and its or- a week my patient, the father of a young family, was dinary action is neither violent, nor spasmodic, nor dead, having very speedily after the operation been irritable. But suppose some sort of irritation to have attacked with acute and fatal septicæmia. By stretcharisen in the bowel-acute diarrhoea, chronic ulceraing in preference to cutting, we have it in our power tion, fissure, fistula, or piles—and what will be the to avoid this risk, at any rate; and, in my experience, state of the sphincter then? In direct proportion to the best method of doing it, where possible, is with the amount or of the duration of the continuance of the fingers, or if need be, the thumbs alone. Let the the disease, it will become hypertrophied and strengthened to enable it to maintain its power and its office. and then, according to the amount of the hypertrophy, and, in time, it comes to be enormously more power- or the degree of resistance in the sphincter. dilate it

condition, necessary.

tion, are perpetually tending to protrusion, and are free from irritable tension. ceaselessly warring with the muscle; from time to I have heard the question carefully discussed, as time, when the fæces are passed, the piles are pro- to whether the digital or the instrumental method of truded with them, remaining after deflectation in the dilatation is the best. Personally I prefer the digital. grasp of the sphincter; they are crushed, and bruised, because, my object being to tear so much of the and become inflamed and painful; and even though muscle across (the mucous membrane over it remain-they be released from their imprisonment, as they ing intact as shall be sufficient to d'minish, without usually are, by the patient, and are returned into the destroying its whole power. I can, when my fingers bowel, it is only to continue there the war with the are the instrument used, feel with them when I have sphincter and to prolong the agony. Or, suppose done what I wish, and I need do no more. But so that a painful ulcer or fissure exists within the margin great is the hypertrophy sometimes, that the fingers, of the anus, and immediately within the anus is their even of the strongest hands, are quite inadequate to most common seat, what will then be the state of the task of overcoming it. In such cases I usually affairs? The discharge from an ulcer or from fissures dilate steadily first with the instrument till I can withcannot get away, the sphincter will not permit it to draw it wide open with freedom and with it redo so; it accumulates and irritates the muscle, this sistance; or, with a tenotomy knife, I divide subcuretaliates by increased contraction, and thus the war taneously a given proportion of the hypertrophied goes on, to the infinite disadvantage of both parties muscle; a dafter that I carry on, where it is necessary. concerned; the ulcer spreads, the fissure deepens, any further d'latation with my fingers.-British Medand the sphincter hypertrophies.

Sometimes, in the case of fistulæ, matters do not become quite so accentuated or acute, for the matter A DANGER IN HOUSE SANITATION.—The space finds a vent in the perineum, beyond the range of underneath the floors in dwellings, between the floorthe action of the sphincter, and the direct irritation ing and ceiling of the room below, is a part of the

these cases alike, you will have been, or you will be taught, and every text-book you read will reiterate the fact that, for their cure, you may do whatever you STRETCHING THE SPHINCTER ANI .- At the close will, but you will not succeed until you have put the of a recent lecture on the "Surgery of the Male sphincter at rest, and you are invariably assured that

Now this is the point which we in Leeds contest. so profound was the impression it made upon me, Consider, for a moment, the position and office of that to forget it even now is quite impossible. For a ful than is natural, or, were the parts in a healthy steadily, either with the fingers, or with some appropriate instrument, until you have overcome all undue Piles, supposing them to be the cause of the irrita-resistance, and can leave the anus soft, pathlous, and

ical Journal. Feb. 6, 1886.

to the muscle is so much the less; but in one and all house which receives very little attention from the

ities of a house.

of the house. It creates an uninterrupted passage- required. way for rats, mice, and other vermin, which often passageways offer avenues for the spread of the flames into a hollow suppository and used as directed. made, it is far beyond control.

is called to them. In houses constructed with open spaces there is an inviting place for dust, dirt, and other impurities to collect, by constant sweeping, scrubbing, and the friction of many feet. The modby the doctor, and is in every way perfectly safe and ern sanitarian is educated to believe that wherever harmless. there is dirt there is danger. The constant presence

Another source of danger is the filling, or deadening, as it is sometimes called, which is used to fill up medium which could afford a harbor for vermin.

The constant reappearance of a disease in a house News, January, 30, 1886.

DRY Dressings for Internal Cavities.—Dr. CHARLES F. HUTCHINSON, of Scarborough, says in a note on this subject: Dry dressings being now all simple method of applying, in the dry state, dressings, styptics, etc., to such cavities as the vagina, uterus, and rectum.

householder who may pass a considerable amount of various sizes, the largest of which will just about hold time above it. Because it is not of much thought, one drachm of any ordinary powder. These hollow it does not follow that it is not an important object suppositories are filled with the powder that may be for consideration. On the contrary it may become wished to be used as a dressing; the small lid, after of prime importance in the health preserving qualbeing gently heated, is put on; this when cool remains fixed, and the whole apparatus is then ready to be In most houses, there is no attempt made to fill this introduced into the vagina or rectum. The heat of space. The floor is laid on top of the joists, and the the body soon melts the cacao butter, and the powlath and plaster is put on the bottom, leaving a long der is then brought, in as dry a state as possible, into open space between joists, connecting with the space direct contact with the parts. During the last six between the studdings and the sides of the building. months I have used these suppositories most freely, This free connection is almost universal, and is ob- and have been more than satisfied with the result. jectionable in every case. It permits a free circula- I have tried all sorts of powders, and as the result tion of cellar air all over the system of partitions and of my own experience strongly recommend the fol-assists its general dissemination into the atmosphere lowing, either alone or in various combinations as

Firstly, as a styptic I most strongly recommend make themselves objectionable, to say the least. In powdered iron-alum. I generally order one drachm case a fire starts in the lower portion of the house of powdered iron-alum and five grains of iodoform, from an overheated flue, or other cause, these open to be well mixed together, the powder to be inserted so that before any manifestation of its presence is the treatment of uterine hæmorrhage I am convinced there is no remedy of more universal application, and These are the most patent objections to the open none on which I could with greater confidence rely. spaced floors, as constructed in many houses. There I have used it in severe hæmorrhage from uterine are others which are more powerful than those recited, cancer, bad miscarriage, and in several cases of which will become perfectly apparent when attention menorrhagia at the change of life, and it has never

Secondly, as a dressing iodoform stands pre-emiof germs in decomposing animal and vegetable matter, nent; in fact, I now seldom use anything else. This, makes the presence of this collection of dirt quite to when combined with from a quarter to half a grain of morphia, forms by far the best dressing for uterine cancer that I have yet tried.

Thirdly, morphia, either alone, or as I generally these spaces when anything is used. Manifestly, it now use it, in combination with either or both of the should be nothing of a decomposable nature, or a above, is a great aid to the physician and comfort to the patient.

After attention has once been drawn to this simple or in a room, may be connected with this harbor of mode of applying these various applications, the refuge for germs beneath the floors. These spaces numerous uses to which they might be put in the are seldom the recipients of pure air which would various vaginal, uterine, and rectal discharges and oxidize impurities, nor are they much affected by any diseases will occur to atl. I have only very briefly ordinary disinfecting process. It may be urged, then, ventured to suggest the use of those in my own hands that all floor-spaces be filled carefully, and when I have found deserving of confidence. I have no filled, it be with some such material as asbestos, min-doubt that hundreds of the profession are at present eral wool, or other matter not apt to become danger- using this mode of dressing; but, on the other hand, ous either from its own decomposition or by the I know that there are hundreds who are not, and it is reception of decomposable material.—The Sanitary to persuade those who have not yet tried them that I venture to bring this subject forward.—The Lancet, February 15, 1886.

THE USES OF A FIVE PER CENT. SOLUTION OF BRUCINE.—In a note on this subject Dr. RALPH W. the fashion, and to my mind most justly so, I wish ZEISS, of Philadelphia, says that he has arrived at to draw the attention of the profession to a very the following conclusions from experiments with a five per cent, solution of brucine:

1. I have twice applied the solution, by means of a tuft of cotton on a cotton-holder, to painful furuncles The only apparatus required is a hollow cacao- of the external auditory canal. In both cases marked butter suppository, which suppositories are made in relief was noticed in from two to four minutes, which

lasted for some hours, when the pain slowly returned The examination of parenchymatous structures, such as before. Skin in these cases not broken.

lasting for a number of hours, in two cases. In these thin section, which should be placed for two or three

times in sensitive conditions of the auditory canal to section it can be placed in glycerine, or Farrant's render the use of instruments painless. No record medium. These two staining fluids are valuable was kept of these, but in about one-half the cases agents for the differentiation of structure in tissues the patients volunteered the statement. "It don't hurt prepared in the ready method now described. Cells, as much now," while in the other half no results of nuclei, fibres, and stroma are distinctly marked out. any importance were obtained, sensitiveness being in If the aniline, or methylin blue, be not available at

no way lessened.

lessening or entirely abolishing the pain and burning as brain or spinal cord, require for the full and comcaused by applications of iodine, nitrate of silver, plete examination of local changes that they shall be sulphate of copper, and the like to the mucous membrane of the throat and nasal passages. I have repeatedly used it in these cases, perhaps nearly fifty tion of the fresh brain may be made by the "handy times, and in almost every case relief was noticed, method" of Dr. Batty Tuke.1 A small piece of the and in the majority of the cases pain and irritation tissue, of about the size of a pin's head, taken from were at once overcome.

proved valueless.

ing a shallow abscess, it did no good whatever, the eight times its amount of water, should be mixed up patient suffering as much as usual.

ever in my hands.

does it seem to be so readily absorbed.

cations of brucine to the nasal cavities, patients have made trials of a large number of staining fluids, the complained of having felt wildly "nervous" for some writer has satisfied himself that the two blues above hours afterwards, evidently from the strychnine like mentioned are the best suited to the ready examinaeffects of the drug. In no other instances were the tion of parenchymatous structure; whilst for sections slightest toxic effects noted, although as much as my of of hardened brain-substance he has learnt to rely the solution has been repeatedly used in the middle ear most upon solution of carmine, and next to that upon and nasal fosse. — Therapeutic Gazette, Jan. 15, 1886. aniline blue-black. — Provinc. Med. Jour., Jan. 1, 1886.

MICROSCOPICAL EXAMINATION OF MORBID STRUCto spare for elaborate investigation of diseased struchas not the resources of a laboratory at his command, MARSHALL draws the following conclusions: will nevertheless often desire to investigate the minute changes which have resulted from the pathological time of death, the dilatation usually occurring within processes that he has watched to their fatal issue. an insurmountable bar to the satisfaction of so laudable a curiosity. Another difficulty, moreover, is pendent of the state of the pupil during life, whether frequently interposed, under the idea that morbid that is altered by drugs or by disease. structures must undergo a process of hardening previamination is, however, I suspect, often attended with commencement and the degree of myosis attained. the alteration of portions of the elementary tissues.

as liver, kidney, lung, sarcomata, schirrus, etc., can 2. In cases of painful suppurative otitis of the be effected in a few minutes by a ready method, the middle ear (some five or six in all) the solution gave means of which may be always at hand. A Valensome relief in all cases; very marked relief from pain, tine's knife or a sharp razor will give a sufficiently patients the solution was passed on the cotton tuft minutes in methylin, or aniline blue (not the bluedown to the fundus of the canal, and the raw and often black). Surplus coloring matter should be washed bleeding surface carefully and thoroughly mopped. Off in water, and the section is then ready for micro-3. I have used the brucine solution some scores of scopical examination—if it be desired to preserve the the moment, a fairly good substitute may be found 4. Brucine, in my hands, has proved most useful in in Stephens's blue-black ink. Nervous tissues, such the supposed morbid portion, should be placed upon 5. In one or two cases of burns the solution has a glass slide and pressed down by a thin cover. The cover then being removed, a few drops of "Judson's 6. Painted along the line of incision before open- magenta," or of carmine solution diluted with six or by means of a needle, with the brain tissue and a 7. Used on the external surface of the body, the clean thin cover pressed down upon it, until the subfive per cent, solution has proved of no value what-stance is so thin as to be translucent. The cells, nuclei, and vessels will take the coloring matter Speaking generally, I do not consider the brucine deeply, whilst other structures remain unaffected. salt equal in its local effects to the muriate of cocaine. Morbid conditions are thereby brought into view-Though more lasting, it is much less reliable, nor e.g., pigmentary granulation of cells, change of form in nuclei, colloid bodies which refuse the stain, and In some two or three instances, after liberal appli- the imperfectly colored miliary bodies, etc. Having

CHANGES IN THE PUPIL AFTER DEATH.-From an TURES.—The busy practitioner who has but little time interesting series of original observations upon the eyes of recently dead subjects and upon their beture, says Dr. W. B. KESTEVEN, and who probably havior under certain physiological stimuli, Mr. J. N.

"(1) In most cases, the pupils are dilated at the a short period of the fatal event. Dilatation at an Too often, indeed, it occurs that prejudice presents appreciable time after death is quite exceptional. This condition is essentially paralytic and is inde-

"(2) There is, in the great majority of cases, proously to examination. The plan of hardening, stain. gressive contraction of the pupil after death. This ing, and clearing before mounting for microscopical ex- varies within wide limits, both as regards its period of

British Medical Journal, Sept., 1874.

It usually begins within an hour after death, and con- boiled with excess of cupric sulphate solution (1:10). tinues for the next forty-eight hours. The contraction which is often unequal in the two eyes, is inde-potassic hydrate, or some Fehling's solution, to be

the occurrence of rigor mortis.

"(3) The pupil is susceptible to the action of atropine after death, for a period which probably varies January 15, 1886. with different subjects, but which may be as long as four hours when simple instillation is employed, and perhaps a little longer when the atropine is injected into the anterior chamber. The dilatation begins at about the same time after instillation of the atropine, as it does after instillation during life, but it differs from the dilatation after the latter in that it is of less degree, and that the influence of the atropine passes off sooner and leaves the pupil to follow its usual course.

"(4) The instillation or injection of eserine after death produces contraction of the pupil, but the period after death during which it can act is shorter

than in the case of atropine.

"(5) The instillation of ergotine after death has no effect on the pupil, but its injection into the iris or anterior chamber produces contraction of the pupil up to at least two hours after death.

"(6) Pilocarpine injected into the dead eye has a

slight myotic action.

"(7) The removal of the aqueous humor after death does not affect the ordinary behavior of the pupil.

"(8) Flaccidity of the iris during life is exceptional, but it is always present after death, and increases from the time of death onward."—Boston Medical and Surgical Journal, February 11, 1886.

THE SOURCE OF UREA .- MR. D. W. AITKEN, of Edinburgh, reports the following interesting case:-Early in January, 1886, he was called to see a boy who had, the day previous, received a rather severe blow upon the right lobe of the liver. When seen, he was complaining of much pain in the right hypochondrium. The skin was slightly, and the conjunctiva distinctly, jaundiced. The stools were pale, while with nitric acid; there was no fever. But herein lies the important matter. The urine was highly alkaline. test-tube, although the urine was not much more than one inch deep. He got his friend, Dr. Drinkwater, 100° (C.) with iodide of methyl and methylic alcohol, to carefully examine the urine. He reported that the alkalinity was due to ammonium carbonate, and, on hydrate of iodine, and conforms to all tests of genuine estimating the urea, he only found 3 per cent.

the liver as the seat of producing of urea. Dr. Graves has already reported several cases of absence of urea which he believed to be represented in the urine by the ammonium carbonate, but here we have a history of the organ involved.—Brit. Med. Jour., Feb. 6, 1886.

A Modification of Fehling's Test.—Buchner precipitate of cuprous oxide, when heated with Fehappear doubtful. In such cases, the urine is to be ruary 13, 1885.

The greyish-green precipitate is to be separated, and pendent of the action of light upon the eye and of added to the filtrate, on boiling which the red suboxide of copper will be deposited, if even a small proportion of sugar be present.—London Medical Record,

> Painless Operations for Phimosis -Dr. W. ROUNDS BARNES, of Binghamton, N. Y., writes that he performed circumcision upon a man 42 years of age, after having previously applied a four per cent. solution of cocaine for twelve minutes to both surfaces of the prepuce along the proposed line of incision. The patient himself rendered good service in wiping away the blood, and in holding the mucous and cutaneous surfaces together while the sutures were inserted. The hæmorrhage was very slight until sensation returned, which was not until the last suture was being put in. The patient remarked at that time that that was the first pain he had felt. The operation occupied thirteen minutes .- The Medical Record, February 27, 1886.

> Hypone as an Adjuvant to Chloroform.—M. DUBOIS (Revue Médicale Française et Étrangère, Jan. 16, 1886,) states that, when a hypodermic injection of a sixth of a grain of hypnone has been given to a dog, the animal can be anæsthetized by making it breathe air containing four per cent. of chloroform, a mixture which, as M. Paul Bert has shown, never produces anæsthesia under ordinary circumstances. The anæsthesia ceases in about an hour, although the dog may continue to breathe the mixed gases. The same result may be produced by giving twice the amount of hypnone by the mouth. The practical value of these facts lies in the probable diminution that can be made in the amount of chloroform required for anæsthetization .- The New York Medical Journal, February 6th, 1886.

ARTIFICIAL COCAINE.—MERK succeeded in transthe urine was bile-colored, and gave the bile reaction forming benzoyl-ecgonin, a new substance discovered by him, into cocaine, as reported by the Pharm. Zeitung of October 31, 1885. It might interest some On the addition of nitric acid, there was such violent of the more speculative minds to know how to preeffervescence, that the froth was forced out of the pare the costly alkaloid without the Peruvian plant.

Several grammes of benzoyl-ecgonin are heated to and then slowly evaporated. The product is a cocaine, and even has the same melting-point as the This evidence seems to him to point strongly to latter (98°).—Therapeutic Gazette, January 15, 1885.

SUBCUTANEOUS INJECTION OF OXIDES OF MER-CURY.—Subcutaneous injections of the black and red oxides of mercury have been recently tried as an anti-syphilitic treatment in the Lazarus Hospital at Warsaw by Dr. von Watraszewski, who has charge of the syphilitic wards. He finds that no inflammahas proposed the following modification of Fehling's tion and scarcely any pain is produced, no abscess method for sugar. Many saccharine urines only give having occurred after any of the 200 injections he an opalescent yellowish-red coloration, and no red has performed. The therapeutic results were most satisfactory both in recent cases and in those where ling's solution, making therefore the presence of sugar the disease was of old standing. - The Lancet, Feb-

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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DESIRABLE TO MAKE MATERIAL CHANGES IN THE PLAN OF ITS ORGANIZATION, PARTICULARLY IN THE DIRECTION OF ASSIMILATING IT TO THAT OF THE BRITISH ASSOCIATION WITH 'BRANCHES?

medical societies and their active support by all in- will be more readily neglected. telligent physicians, the actual experience gained in the history of the progress of the American Medical human society, and the recognition of which is Association not only led to an amendment of the equally important to those who would plan wisely, constitution of that organization, by which the recep- is that whenever a high or desirable position is action of delegates was restricted to State Medical cessible through different channels, the great majority Societies and such city, county and district societies of men will take that route which is the shortest and as were recognized by their respective State Societies, least expensive in time or money. We have already as explained in our remarks in the preceding number given illustrations of this in the preceding issue of of The Journal, but the same influence led to fur- The Journal, in the readiness with which the faculther changes in the same direction. The original ties of medical colleges and the staffs of hospitals, constitution permitted the Association at any regular etc., sent delegates direct to the National Associameeting to elect an indefinite number of Permanent tion, while but few of them, comparatively, were Members, provided those nominated received a unantaking any part in the local societies around them imous vote. It required but few years to show that until the constitution was changed. But as delegates at almost every annual meeting members were thus are still admitted to the National Association from elected who had taken no interest in the local socie- city and county societies on the same basis as from ties of their own city or State, and the number of the State Societies, every annual election of such these so increased as to attract attention, and led to delegates in the local societies results in the election the addition to the clause of the constitution defining of many who seldom or never attend the State Socithe eligibility of candidates for membership, of the ety. Another illustration of the same principle is following clause: "Nor shall any person not a mem- afforded by the number of those members of the ber and supporter of a local medical society, where such profession, chiefly in our large cities, who make frea one exists, be eligible to membership in the Amer-quent visits across the Atlantic; choosing such times ican Medical Association." Consequently the elec- as will enable them to attend one or more of the tion of Permanent Members by unanimous vote has important meetings of the medical societies in Eunearly ceased.

It is thus seen that simple practical experience has demonstrated during the past forty years the correctness and adequacy of the principle of strict representation for the support of the National Organization, while the same experience has equally shown that the few minor deviations from that principle which were incorporated into the original plan of the Association, have been steadily undergoing elimination for the sole purpose of strengthening the State and local society organizations. It is an important law of social science that cannot be too clearly comprehended by all who are interested in organizing and sustaining societies of of any kind among men, that every step higher or more honorable a man gains, tends to make him more indifferent regarding the steps below. An attorney who has fairly gained access to the Bar of the Supreme Court will rarely be seen doing business in a Justice court. A statesman who has once sat in the legislative halls of the THE AMERICAN MEDICAL ASSOCIATION-IS IT Nation will rarely be induced to subsequently accept a seat in the Legislature of a State or Province. And as membership in a National Association is in the nature of things regarded as more honorable than one in a State Society, and the latter more so than one in a county or town society, membership in the To increase the incentives to the formation of local first will make the latter seem less important, and it

Another law equally discernible in the working of rope. The sanitary effects of a sea voyage, the

gaining of recognition by eminent men abroad, and entitled to representation in the National Organizathe popular éclat gained at home by the supposed tion, they will find that it rests to-day on an actual advantages of foreign travel and study, combine to constituency of not less than 40,000 members of the make such trips to those who have the means doubly profession. attractive. Hence it is not difficult to find those who have not only more frequently attended medical tions of this extended National Organization during societies and institutions in Europe than those of the past year, and have diligently endeavored to their own country, but who appear to have also ac- persuade the world that its day of usefulness had quired far more familiarity with the medical men and passed, and the sooner it was abandoned the better, literature of Germany than of either, as they actually will spend a few hours in examining the record of its exist in this country; while they are too readily ac- influence in aiding the Medical Corps of the U.S. cepted as the prominent medical men of America by Army and of the U. S. Navy to obtain from Congress those whose acquaintance they so assiduously culti- the legal recognition of a more just and honorable vate, and in turn many of them acquire the habit of official rank; in from year to year urging directly and giving expression to the idea that we have neither through its constituent State and Local Societies the educational institutions, scientific investigations, nor enactment of laws for establishing State Boards of really eminent medical scientific men (themselves Health and other measures for improving the sanitary perhaps excepted) worthy of attention in this coun-condition of all our municipalities; and in lending try. We by no means object to visits to the societies its entire influence until probably every member of and institutions of other countries, or to the cultivation of foreign literature, but we regard it as the duty of every right-minded man not only to thoroughly acquaint himself with the literature and institutions of his own country and ever be ready to represent them fairly, but every member of the medical profes- time the magnificent Medical Library and Museum sion who can command the time and means to gather of the Surgeon General's Office at Washington, they knowledge in other countries, is under unusual obligations to attend and give active support to the social and scientific interests of his profession at home.

The influence which has been exerted through the organization of the American Medical Association on a uniform basis of representation by delegates from State and more local organizations, exacting Paris, on February 2, M. Peter read a communicabut the one condition that all the constituent organ-tion on this subject, in which his object was to point izations should be governed by one Code of Medical out the bearing of clinical observations on the disritory in our widely extended country, nearly all of confirming what we know of poisoning of the organin regard to the more local organizations in each to our previous knowledge. It need scarcely be State. And although none of these organizations said that M. Peter refers to Gautier's discovery of are so complete as to embrace all the members of the alkaloids of decomposition, to which Selmi gave the regular profession within their limits, yet they do collectively embrace a large majority of regular active members of the profession in the United States of America: and the American Medical Association, as the delegated head of all these confederated societies, is the legitimate and authorized representative of the whole. If those who are in the habit of disparaging and denying the extent of the actual constituencies of the Association at the present time, will take the trouble to estimate carefully the number contained in all the State, district, county and city societies urally turn to the chemical side. Here clinical experi-

If those who have so freely indulged in denuncia-Congress had been reached and influenced in his own home by members of the Association, who are also voting members of his own constituency, in favor of the necessary appropriations for adequate fire-proof buildings to preserve and protect through all coming may possibly see in what it has, at least, aided to accomplish, some excuse for helping it to exist for further work in the same directions.

#### PTOMAINES, LEUCOMAINES, AND MICROBES.

At the meeting of the Académie de Médecine of Ethics, has led to the establishment of efficient State coveries of Gautier. Independently of their intrinsic Medical Societies in every State and inhabited Ter- value, he says, these discoveries have the merit of which are based on the same representative principle ism by itself, by giving a greater degree of precision the name ptomaines. He has also shown that in living animals, and by the very fact of life itself, certain analogous alkaloids are developed, to which he has given the name "leucomaines." And he has shown that in living animals certain non-crystallizable nitrogenous substances are produced, undetermined as yet, and that these are extractive matters. While all three are highly poisonous, the extractive matters possess greatest toxicity.

In considering these bodies, says M. Peter, we nat-

ence steps in and shows that to the difference in in difficult to see the point to which he would lead usby the extractive matters produces increase in tem-thorough skepticism in all sorts of microbes, especially perature, while intoxication by the animal alkaloids as we know that he has long since proved, to his own produces decrease in temperature; and one may see satisfaction, that a microbe is an accident. He knows in the same organism an association or alternance of that typhoid fever arises spontaneously, because he increased and lowered temperature, according as there has seen cases which he could not trace to any other is an association or alternance of the different poisons. origin. Let us suppose, he says, that a certain quan-But what is very interesting, and of no little import-tity-say 10 units-of extractive matters and alkaance, says M. Peter, is that the discoveries of Gautier loids is produced in the organism of one man, and protect us from the tyranny of the microbes. They that he only eliminates 8 per diem: obviously in really explain the formation of the most poisonous twenty days he will have 40 retained in his system, alkaloids and the still more poisonous extractive which is sufficient for intoxication and disease. Automatters. "They show that auto-infection, spontaneous typhisation is the result, and the man has typhoid infection of the living organism-spontaneous, that is fever. According to this theory we must regard disto say by itself-that spontaneous infection, I say, ease as the result of the accumulation of a certain of this organism by the alkaloids and extractive mat- amount of excrementitious matter; a different amount, ters which it produces in itself because it lives, is with different proportions of each excrementitious merely a question of quantity; in other words, the substance, for each affection. This would certainly living organism may poison itself by the accumulation be a most convenient theory if we could only find within itself of these substances made in itself."

brought about? According to M. Peter, and the before the disease sets in. idea is by no means original with him, life is an essentially relative and contingent phenomenon; it is Peter holds that uramia is due to the "adulteration a series of partial deaths. Health is also an entirely of the blood by a cadaverized animal matter, the relative phenomenon, and just as contingent, the un- urine." In his opinion other diseases are produced stable equilibrium between good and bad. The series in analogous ways. He concludes his remarkable of partial deaths which make up life is the result of paper with a denunciation of Koch and the commathe working of the organs of animal life. When we bacillus, and unhesitatingly pins his faith to Gautier's think heat is evolved in the brain, and the material leucomaines. "Henceforth," he says, "medical inresult of cerebral activity is neurine, an alkaloid im-telligence will not hesitate between the parasitic docproper to normal life. Muscular movement causes trine, full of dark hypotheses, and this new doctrine, heat, the material result being creatinine and other as luminous as precise, which explains the normal and alkaloids improper to normal life. In fine, all the abnormal phenomena of life by life itself in action." organs which work and which, by working undergo M. Peter's theory (or doctrine) may be compared to partial destruction, make, besides these alkaloids, ex- that so ingeniously elaborated by Després regarding tractive matters. Life, then, is also only a partial the nature of syphilis. Both show that while a man and prolonged suicide; and it is easily seen how pre- may be an accurate and acute observer, he may be a carious is the state called "health," and how, even by very bad interpreter of the facts observed. the action of our own organs, disease may supervene: all that is necessary is the accumulation in our bodies of "cadaverized" materials. Such accumulation presupposes insufficient elimination, and this may take place in two very different conditions of life. Some- great diversity of opinion among medical authorities times the alkaloids and extractive materials are pro- concerning the nature of diseases; in another it is duced in excess, the emunctories remain normal, but lamentable. It reveals the limitations imposed upon are momentarily insufficient for carrying off these man's knowledge, and above all it emphasises the unsubstances as fast as they are produced. Or there certainty of medical knowledge. There is scarcely may be a normal production of these substances, but a subject about which a difference of opinion does the emunctories are morbidly altered or suppressed not prevail. As set forth in a leading article of the for the time being.

toxication corresponds a difference in heat; poisoning to a belief in the spontaneous origin of disease and out just what matters, and how much, are retained But how is this poisoning of the organism by itself in each disease, and how they could be eliminated

Our readers are now prepared to know that Prof.

### SIR ANDREW CLARK'S VIEW OF THE PA-THOLOGY OF ASTHMA.

In one aspect of the case it is amusing to note the issue of this JOURNAL, of September 19, 1885, the Having followed our author to this point it is not etiology of asthma is no exception to the rule. With its exact nature would have a practical bearing upon blood, both the peripheral nerves and the respiratory its treatment.

pathologists, they are practical men and careful clin-cles, which are thrown thereby into violent and someical observers Hence it may be of interest to know times even tetanic contractions. what so eminent a teacher as Sir Andrew Clark has to say on the subject of the causation of asthma. Hallerian extension force of the thoracic walls, The last number of the American Journal of the straighten the bronchial tubes, and notwithstanding Medical Sciences contains a paper by him entitled the tendency of respiratory forces to increase the "Some Observations on the Theory of Bronchial size of the swellings, make the entrance of air into Asthma viewed in the light of the Pathology of Hay the lungs far easier than its exit. Fever." After setting forth his reasons for the belief that hay fever is not to be regarded as due exclusively piratory recoil begins and is continued by the muscles to some external irritant, as the pollen of plants, but of forced expiration, the smaller bronchi, more especithat there is a neurosal element in the disease, and ally those containing mucous wheals, are compressed, after citing instances in which hay fever and typical and all the passages are relaxed and lose their straight spasmodic asthma alternated with each other, "like direction. Thus the egress of air is greatly hindered, a regular see-saw between the nasal and bronchial and the act of expiration so much prolonged that it

- has its roots in a special vulnerability of the respiratory nerve centres through the circulation centres, and of certain portions of the sympathetic.
- more particularly the respiratory one, in certain seems imminent; and the paroxism is at its height. cutaneous inflammations, and in the central nervous system itself.
- "3. The paroxysm begins by a more or less diffused hyperæmic swelling of the bronchial mucous membrane, and is continued by the development at various motor centres, respiration becomes easy, lividity and parts thereon of circumscribed congestive swellings, swelling of the face disappear, restless anxiety is diswhich come and go with greater or less rapidity, and placed by growing calm, and the attack is brought to resemble, in many particulars, the swelling of the an end." skin in nettle rash.
- of dry râles.
- matic paroxysm.
- of the bronchial mucous membrane hindering the free explanation.

regard to this distressing malady the determination of entrance of air, and thereby the full aëration of the centres are irritated, and exaggerated discharges of Whatever may be said of our English brethren as respiratory impulses are sent to the inspiratory mus-

- "7. These violent inspiratory efforts increasing the
- "8. When the inspiratory efforts cease, and the extroubles" he states certain propositions, as follows: is something suddenly interrupted and prematurely "1. Asthma is a neuro-vascular trophic disease, and closed by the violent inspiratory efforts originated in tory mucous membrane, of the respiratory nerve of imperfectly oxidated and decarbonized blood. In this way inspiration gains upon the expiration; the "2. The irritation exciting the nerve discharges alveoli are extended with air; the diaphragm is dewhich bring about the asthmatic paroxysm may arise pressed; the chest, in all its dimensions, is dilated; in the blood, in any one of the mucous tracts, but breathing becomes more and more difficult; death
  - "9. After a time, varying greatly in duration, the attack begins to subside, and, partly by secretion from the bronchial mucosa, partly from the exhaustion of the excitability of the respiratory and vaso-

As Sir Andrew states, his theory resembles some-"4. At their first appearance these swellings become what that propounded in 1872 by Weber, which is coated with a viscid mucus, hinder the entrance and that asthma is due to a fluxionary hyperæmia of the exit of air, and by their vibration produce for the bronchial mucous membrane; but Sir Andrew Clark most part the drier râles characteristic of a certain says that he has taught his theory for twenty years. state of the asthmatic paroxysm. Towards the close If perused attentively, it will be found to present of an attack, the swellings after free secretion subside, some novel features with which issue might fairly be the dyspnoa is relieved, and moist takes the place taken. Yet, as the author says, a theory should be judged "not by its fertility or barrenness" but by "5. The secretion from the swellings being some- its practical workings. Viewed in this light there are times acrid, and even corrosive, may excite some certainly some cases of asthma which are so amenable contraction of the bronchial muscles; but such con- to treatment of the kind likely to remove bronchial traction can not become, either by its nature or its congestion, if it exist, that it seems legitimate to refer amount, the chief factor in the evolution of the asth- the paroxysm to such a cause. On the other hand, there are asthmatic patients in whom the neurotic element is so predominant as to make Sir An-"6. The hyperaemia and circumscribed swellings drew Clark's theory inadequate to their satisfactory

# SOCIETY PROCEEDINGS.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, February 15th, 1886. THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR. (Concluded from page 245.)

DR. HENRY T. BYFORD read a paper on the

PRODUCTION AND PREVENTION OF LACERATION OF THE PERINÆUM, WITH DESCRIPTION OF AN UNRECOGNIZED FORM.

(See page 253.)

divided into two parts, the vulval or external, and the In this box are forty-three gall-stones which I revaginal or internal. The former lies external to the moved from a gall-bladder yesterday. In reference muscles and the latter includes all the rest. When to the oophorectomy, I desire to call attention to the the perineum is slightly stretched by the head two knot used in securing the pedicle and which has been rings may be felt by hooking the finger over the rendered famous by Mr. Tait; he calls it the Staffourchette; an external ring marking the edge of the fordshire knot. Its use got me into trouble. It does vulva and an internal ring marking the edge of the not secure the pedicle by merely tying the knot. It muscles and fascia about the vaginal orifice. Upon must be drawn sufficiently tight to cut off circulation the positions and relations of these rings depends the in the pedicle before the final knot is secured, othersafety of the perineum. When the occiput engages wise the pedicle is very feebly constricted. I used in them before the forehead passes the coccyx, the it in this case in securing the left ovary, and passed fourchette and muscular edge are pressed downwards on to the removal of the right ovary, during which and the perineum but little bulged and not at all en-operation I noticed that a good deal of bleeding was dangered. When the occiput does not engage in the going on. Having removed the right ovary, I then rings before the forehead leaves the coccyx, the four-looked for the point of hamorrhage and found a chette is pushed upward before it, the perineum spurting artery in the unsecured left pedicle. I was stretched from three to four inches antero-posteriorly, astonished, because I thought I had tied the knot while part of the propelling force and nearly all of very tightly. It is necessary that the constriction the directing force are lost before the head passes the should be made by the string, and the circulation rings and is born. The head in such cases has a must be entirely cut off before any attempt at tying greater distance to travel before delivery, involving is made. The other specimen is a large tumor, the loss of time and strength.

form of rupture in which separate muscular fibres and tient having been in a previous condition of apparent portions of the fascia give way all through the perineum, or through a region of it, without involving 102, pulse very fast and feeble, abdomen tender from skin or mucous membrane. Frequently there were peritonitis, urine suppressed. I diagnosed a twisted not enough unruptured fibres left of the tissues to in-pedicle, and advised immediate operation. The opsure contraction and involution, and thus prevent dis- eration was done as soon as possible, and although placements of the uterus. A persistent flabbiness is she was in a very feeble condition at the time, the the chief diagnostic sign. To prevent rupture Dr. operation apparently made very little impression up-Byford advised: 1. To gain time for dilatation with- on her. As soon as the abdominal incision was made out injury to the deeper tissues by favoring a slow a black tumor presented, and instead of the cyst poradvance of the head over the floor of the pelvis. 2. tion being uppermost, as is almost invariably found, In order to secure sufficient dilatation of the vulval the solid portion was in front. When the trocar was and vaginal rings to make the occiput ride over them pulled out there was scarcely any hæmorrhage from instead of hooking under them by keeping the memthe opening made by it: usually there is considerabranous pouch intact, or in its absence early resort to ble harmorrhage, especially when introduced into a artificial dilatation rather than wait for the fourchette solid tumor. When it was removed from the abdo-

then resort to the ordinary methods.

head many perineums might be prevented from rup-seventh day all the stitches were removed and the turing. We sometimes fail to direct the head and patient is practically well to day. These tumors somemanipulate the perincum as each case requires be-times have pedicles twisted completely off, so that cause the woman is not in the proper position. For- they are in a sloughing condition; in other cases the merly he had delivered most of his cases in the dorsal twisting goes on so slowly that the pedicle is finally position, but not being satisfied with the way he was destroyed entirely. Spencer Wells says that he has

able to manipulate the perineum and head, he had tried the lateral position, and it seemed a great improvement. . He could now support the perineum by directing the head with a great deal more ease and effect than ever before, and it seemed to him that the lateral position is preferable to the dorsal.

DR. C. T. PARKES exhibited some

SPECIMENS FROM BATTEY'S OPERATION, AND OF OVAR-IAN TUMOR WITH TWISTED PEDICLE.

"The specimens which I have to present to you on this plate are two ovaries and forty gall stones. The two ovaries were removed from a lady who had suffered for over ten years from a great deal of trouble in the pelvis. They are noticeable in that the For the purpose of illustration the perineum was left one is very small and the right one very large. weight of which was estimated at twenty-three The author described an obscure but not infrequent pounds. Eight days before the operation, the pato be thus hooked up over a bulging perineum, and men there was found to be a turn and a half in the pedicle. The temperature fell after the operation Dr. G. H. RANDALL thought that by directing the and did not again come up to one hundred. On the found tumors with no pedicles. The three points of peritonitis, and the suppression of urine."

separated from its attachments to the under surface taken for the lens. of the liver, and then by carrying a thread through its fundus it was lifted to the top part of the incision aware that literally and truly the lens fibres do not and the finger introduced into the cavity of the gall- become ossified, but wherever connective tissue exists bladder and the stones removed. Of these stones ossification may occur, and connective tissue may the largest was found in the gall-duct. It was forced occupy the site of the lens. Dr. Voorhies cites a from the gall-duct into the gall-bladder.

THE PRESIDENT said that he made very close in- the possibility of such ossification. quiry on that point; the night previous to the occurrence of the trouble the patient felt something move in the abdomen from the left to the right side. She was lying in bed at the time. In reply to Dr. Strong the President said he did not think that rupture of the cyst would not be followed by an increase in the size of the abdomen, nor by any change in the function of the kidney.

DR. W. Franklin Coleman read a paper on

A REPORT OF THREE CASES OF OSSIFICATION OF THE CHOROID, AND THE REPORT OF ONE CASE OF OS-SIFICATION OF THE LENS, WITH SPECIMENS.

lost five, twelve, fourteen and thirty-four years re- He had found for several years that after preaching spectively before medical advice was sought on ac- for twenty minutes or more he was constantly comcount of sympathetic trouble in the fellow eye. In pelled to clear his throat, and before his sermon was cases one, two and four the lost eye had occasionally finished his voice failed him. Dr. Kleinschmidt exbeen painful. In cases one, two, three and four amined his throat and discovered a growth in the sympathetic disease did not occur after the loss of left side of the uvula, near the apex. The tumor was the eye until five, twelve, eleven and eighteen years removed without any difficulty. Dr. W. W. Johnrespectively. The sympathetic disease excited in ston presented a similar specimen to this Society ten case one was serous kerato-iritis; case two, cyclitis; or fifteen years ago. case three, irido-cyclitis and cataract; case four, optic neuritis and mild iritis. Dr. Coleman advised the Kleinschmidt had presented this case of papilloma immediate enucleation of a bony eye on the same of the uvula to the Society, as such growths rarely ground that the enucleation of an eye lost from in-develop in this location, and it consequently presents jury in the ciliary region would be advised. Neither interesting features. He had noticed recently in the ossification nor the injury is in itself the immedi-reading the report of an institution for the treatment ate cause of the sympathetic disease, but either may of diseases of the throat, embracing nearly three

Dr. R. Tilley said the term ossification of the that seem to me to indicate this diagnosis are the lens might lead to a misunderstanding, that there is rapid occurrence of distension, the commencement actually ever an ossification of the lens. Becker, of Heidelberg, claims that ossification of the lens can THE PRESIDENT said in answer to a question, that not and does not take place, and that there is no case because a patient has symptoms of gall-stones and of it on record. He says that in the case of a rupthe evidences are pretty positive of their presence, tured capsule a membrane may be developed from no one must imagine that thereby he is going to have the ciliary region, and from the developing bloodan easy time of the operation. The case from which vessels an ossification may take place in the region these gall-stones were removed was a very difficult of the lens, but that it should not be called an ossifione for operation. The patient was a woman of cation of the lens. He gives an interesting case considerable adipose tissue on the surface of the showing how readily a mistake may be made and body, and it was difficult to expose the gall-bladder ossification supposed: A boy was struck in the eye at all. The liver, instead of being distended and with a hay fork, and came under his care about ten projected below the ribs, was contracted and high hours after the accident. Forty-three hours after the above them. It was difficult to find the gall-bladder accident the eye was enucleated, and he thought from at first, and it was found to be about the size of a a macroscopic examination that the lens was intact, finger, elongated and lying in its natural position and but on microscopic examination, what he supposed adherent to the liver. The fundus was contracted to be the lens was found to be an extravasation of and hardened or thickened so that the finger had to blood, and the lens had escaped. He remarked that be passed well down along its surface before any evi- it is easy to see that an ossification might have ocdence of the stones could be found at all; it was curred, under these circumstances, and the same been

DR. COLEMAN said, in conclusion, that he was well case in his own practice of an ossific mass occupying Dr. H. P. Merriman asked the President if any the normal position of the lens which an expert cause was known for the twisting of the pedicle in microscopist, upon examination, pronounced ossification of the lens. Dr. Knapp does not say he denies

#### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, February 10, 1886.

THE PRESIDENT, C. H. A. KLEINSCHMIDT, M.D., IN THE CHAIR.

T. E. McArdle, M.D., Secretary.

THE PRESIDENT presented a

PAPILLOMA OF THE UVULA.

The patient was an old gentleman between sixty and In cases one, two, three and four the eye had been seventy years of age, a local preacher by profession.

Dr. E. CARROLL MORGAN said he was glad Dr. be the indirect cause by exciting an irido-cyclitis. thousand patients, that only one case of a papillo-

matous tumor of the pharynx was recorded, and none istry was inefficient to solve the problem by the exof the uvula proper. His personal experience with amination of the different organs and the liquids they papillomata of the uvula included three cases, all oc-contained. It was then determined that a certain curring in subjects under six years of age; one in a quantity of these liquids should be injected into the babe about thirteen months old. The tumors in his cellular tissue of a dog that was procured for the own cases were in every instance smaller than the experiment; the beats of the heart were modified specimen exhibited by Dr. Kleinschmidt, were read- and the graphic tracings indicated in a peremptory ily removed, and no recurrence has taken place. Dr. manner that it was aconitine that was the substance Morgan thought that papillary growths of the uvula absorbed, which, however, existed in too small quanare often of congenital origin, and his belief is fur-tity for chemical reagents to detect. By physiologither strengthened by the tender age of his own pa- cal experiment one can obtain more precise results. tients and that of other recorded examples. These and be able to know, exactly, the dose of the poison tumors rarely attain enormous dimensions and are absorbed. only occasionally observed in adults, for the annoying symptoms produced by the presence of a growth seem to answer in all cases. In a report read by on the uvula force the patient to seek medical aid, Professor Brouardel, at a recent meeting of the Soand an early removal is the result. Instances of im- ciété de Médecine Légale, on a case of poisoning by mense papillomata of the uvula and of the pharynx colchicine, he stated that fragments of the viscera of are, however, reported by Lennox Browne, of Lon-don, and Roe, of Rochester. In Browne's case the tumor was as large as a marble. The treatment of istic of poisoning by colchicine. Moreover, the this class of tumors is simple, requiring their removal author observed that to establish a case of poisoning by means of scissors, snare, or forceps, and the sub-there must be perfect concordance between the sequent application of the galvano-cautery blade, points of information furnished: 1. By chemical chromic acid, mono chlor-acetic acid, or the acid ni- examination; 2. by the necropsy; 3. by chemical . trate of mercury, to their base. Recurrences seldom, analysis; 4. by physiological experiments. In the if ever, occur.

Dr. J. B. Hamilton presented some

SPECIMENS FROM A CASE OF CARIES OF THE KNEE JOINT,

upon which he had operated at Providence Hospital two weeks ago. The patient was a negro who had suffered from suppuration of the knee joint for more than two years. Dr. Hamilton removed the patella and the joint surfaces of the femur and tibia. These bones were brought in apposition, and although there is some suppuration the patient is comparatively free from pain and is doing well. The specimens showed a deep abscess of the head of the tibia, and the entire joint surfaces were eroded.

(To be concluded.)

# FOREIGN CORRESPONDENCE.

LETTER FROM PARIS.

(FROM OUR OWN CORRESPONDENT.)

The Relation of Experimental Physiology to Medical Jurisprudence—Poisoning by Colchicine—Antiseptic Value of Biniodide of Mercury—Ferrán on the Comma-bacillus-Medical Students in Paris-Death of Dr. Daniel MacCarthy.

This mode of investigation, however, does not case under consideration, the hypothesis of poisoning by colchicine was justified by the symptoms observed during life, which clinical information might be added to the conditions named above, as being necessary for the elucidation of cases of reputed

M. Miguel, a well-known chemist, in a list published by him of the antiseptic power of divers substances, placed the bichloride of mercury among the most efficient, but it has since been superseded by the biniodide of mercury; which, after some new experiments by the author, has been found three times more active than the bichloride. To prevent fermentation in a litre of sterilized bouillon, it requires about 25 milligrammes of the biniodide of mercury and 70 milligrammes of the bichloride. It is impossible for bacteria to live in a solution of the biniodide of mercury of the strength of  $\frac{10}{1000}$ , or of the bichloride of that of 14 The author recommends that when a good antiseptic is required, whether in obstetrics or whether after operations on the vagina and the uterus, a solution of the biniodide of mercury of the strength of 4000th should be employed in pre-

After having retired in obscurity for awhile, Dr. Ferrán, the famous anti-cholera vaccinator, has revived his favorite subject by addressing to the Paris Academy of Sciences a work got up by him in con-In certain cases experimental physiology may ren-junction with M. J. Pauli, "On the Active Principle der great service to medical jurisprudence, when of the Comma-bacillus, as the Cause of Death and chemistry so often fails. According to Dr. Laborde, of Immunity." From four series of experiments per-Chef of the Physiological Laboratory of the Faculty formed on guinea-pigs, the authors drew the following of Medicine of Paris, it is sufficient to know how a conclusions: 1. The dead comma-bacillus commutoxic alkaloid acts upon a certain function. At a nicates the tolerance which permits the organism to recent meeting of the Société de Biologie, Dr. La-resist the effects of the living comma-bacillus. 2. The borde developed the subject in the following exam- active principle of the comma-bacillus, isolated by ple: A dog was accidentally poisoned in a labora- certain known methods, confer a condition which tory, presumably by veratria or by aconitine. Chem- permits the organism to resist the effects of the living

microbe, and vice versa. According to MM. Ferrán On the contrary, I took special pains, in my letter and Pauli, the cause which determines immunity and of Feb. 6th, to keep any one from thinking that 1 that which occasions death are one and the same, advocated such absurdity. Dr. Hamilton's proposiand is essentially of a chemical nature; consequently tion to "simply open the doors of the Association immunity is in reality nothing more than a certain so that its members shall include the members of

by purely chemical agents.

In his report for the past year, Dr. Béclard, the Dr. Keller also seems to have mistaken my mean-Dean of the Faculty of Paris, makes the following ing when he says: "I can see no other object in

Miss Klumpke came out the twelfth.

ing residents of Paris.

#### DOMESTIC CORRESPONDENCE

BRANCHES OF THE AMERICAN MEDICAL ASSOCIATION.

To the Editor of the Journal:

Dear Sir.—From the tone of the letters published in The Journal of February 27, especially those of four letters published in The Journal of February further object is to organize the profession in Ameritionable. ca. Dr. Hamilton and some others seem to be under the impression that it was proposed to do away proposed would necessitate a change in the Conwith the State Societies and their power altogether, stitution of the Association, and as any proposed

habit or state of the system which may be obtained affiliated State Medical Societies," etc., must be regarded, I think, as excellent.

statement: The average number of students has making the changes suggested than that of increasing been about the same as that for the last few years, our membership and strengthening or replenishing viz., 4000. Of this number there were 103 women, our treasury, at the sacrifice of our State Societies, among whom there was one Indian, one Turk, three which have done good work in standing as the only Austrians, eight French, and seventy-six Russians, gates through which entrance to the Association During the last seven years only eighteen diplomas could possibly be effected; and it occurs to me that were issued to doctoresses, rather a small number in the moment they are removed we will let down the proportion to the number of lady students who bars to hordes of crooks and charlatans whose crooktook out their inscriptions. Dr. Béclard further edness shuts them out of Societies at home where states that the presence of women among the stu-they are best known." I cannot see how my meandents has, till now, caused no inconvenience in a ing could possibly have been so mistaken. In THE disciplinarian or moral point of view. Four hundred JOURNAL of February 6, page 164, I say expressly: and eighty degrees of Doctor of Medicine were given to candidates of both sexes during the year.

At the last competitive examination for the Extent of the Paris Hospitals there were 287 candidates, and among the successful ones I find the names. of four lady students; Miss Klumpke took the ninth latan. The safeguards against crooks and charlatans place in the list. At the examination for the Inter- would be as strong as ever, but a very large amount nat, at which ninety-eight candidates were received, of red tape would be taken away from the requirements for admission to the Association when respect-The English Colony in Paris has just lost one of able and reputable physicians desire to enter. The its oldest and most respected members by the death British Association has members who are not attached of Dr. Daniel MacCarthy, at the age of 69 years, to any Branch; and the American Association has He had been in failing health for some months past, members who are not members of any State or local in consequence of which he had been gradually Society, but they are not necessarily charlatans. But obliged to relinquish his large practice. The de- 1 hope that those who enter into this discussion in ceased physician was the son of English parents, but the future will at once read my letter carefully, and he had spent the greater part of his life in France, dispossess their minds of the idea that there is a plan which became the country of his adoption. He on foot to relegate the State Societies to the limbo took his degree in 1844 at the Paris Faculty of Medicine, and although his connections were principally are, as regards all their rights and privileges. The French, his practice extended to the English speak- object of my proposition undoubtedly is to increase the membership of the American Medical Association, to make it more powerful for good and against evil in the profession. If any one can propose a plan which will be more acceptable to the majority than the Branch system, I will certainly not raise my voice against it; but I do not see that a plan is necessarily bad because it is imported from Europe (and I am not an Anglo-maniac). The plan suggested by Dr. Hamilton certainly has the merit of simplicity.

Drs. Hamilton and Keller, I am afraid that 1 did not 27, shows that the subject has not been broached any state my ideas on this subject with sufficient clear- too soon, for the whole matter should be brought up ness in my letter in The Journal of February 6. before the meeting in St. Louis, and referred to a My whole object is the future good of the Associa- committee to report on at the annual meeting in tion, and therefore of the medical profession in this 1887. And while any plan would be objectionable country. My object is not so much to increase the which would sacrifice existing organizations, a plan power of the Association, as its influence; and the which would ignore them would be equally objec-

lnasmuch as the adoption of any one of the plans

should be referred to a wisely selected committee, with the societies or with the doctors-and we can which should fully investigate the matter in all its scarcely believe that the great majority of our medbearings and aspects, obtaining, in so far as possible, ical men are at fault. In order to join the British the sentiment of members of State and local Socie- Association or one of its Branches the candidate ties, so as to make a complete and comprehensive must be recommended as eligible by three members, BRANCH. report in 1887.

# To the Editor of the Journal:

connection with them."

the figures, as nearly as I can ascertain: Adams upon, and I could not join the State Society. County, 87 regular physicians and 48 Society members; Champaigu, 76 physicians and 27 members; a nuisance, a seemingly nicely devised plan for keep-Clinton, 28 to 9; Crawford, 29 to 11; De Witt, 32 ing out men who cannot attend a meeting or who are to 20; Douglass, 31 to 19; Jersey, 17 to 6; Macounot members of a local society. And when, as is pin, 56 to 32; Madison, 67 to 26; McLean, 83 to 57; Montgomery, 36 to 13; Ogle, 33 to 16; St. Clair, County Medical Society, hundreds and hundreds of 79 to 27; Stephenson, 36 to 19; Vermillion, 80 to physicians may be kept out of the State Society alto-43; Winnebago, 51 to 22; and Woodford, 23 to 22. gether. Having heard that the "delegate system" is Seventeen Counties, therefore, with 844 regular phy- not in force in the Medical Society of Virginia, I find sicians, have only 417 society members (this is as the following regulation for the admission of members near as I can approximate without late returns). in the Constitution of that Society: "Every candi-There are 911 regular physicians in Cook County, date for Fellowship shall make application to the 812 of whom are in the city of Chicago. Of the 90 Committee on Nominations; such application to be outside of the city 8 are members of the County presented and endorsed by a Fellow having a compe-Medical Society); and 3 are members of the American Medical Society); and 3 are members of the American Medical Association. There are, then, 87 regular physicians in Cook County, outside of the city who are not members of any medical organization. The application must be accompanied by the initiation fee, which is re-

poor showing. It may not be worse than that in them. I do not believe in the "holier than thou" some other States, but at the same time it is bad. It sentiment. The Societies are for all reputable phy-

change must lie over for one year, the whole matter shows that there must be something radically wrong and he may be elected a member by the General Council of the Association, or by any recognized Branch Council (the name of the candidate seeking election by a Branch Council must be inserted in the Dear Sir:-In a letter in The JOURNAL of Febru- circular calling the meeting at which he seeks elecary 6, "Branch" opens up a very proper field of distion). Red tape is thus reduced to a minimum, and "Branches of the American Medical Association," in than into one of our State Societies. It seems when he says: "Any one who will take the trouble absurd to keep a man out of a State Society—or out to look the matter up will be surprised to see the of the American Medical Association (as was the number of physicians in this country who do not becase before the meeting in 1884)—because he does long to any medical organization at all. Even in not or can not attend the annual meeting at which he some of the most populous States there are numbers seeks election. In 1885 my name was placed before of Counties without any medical society; and in the Chicago Medical Society for two reasons: I many of the Counties in which medical societies ex- wished to be a member of the local Society, and I ist, there are numbers of medical men who have no was anxious to join the State Society at the Springfield meeting. I was told that there would be no To show that this is true I need only mention the difficulty in being sent as a delegate from the Chicago State of Illinois as a most striking example. Exclu- Medical Society. There was no want of time, for sive of Cook County there are one hundred Counties the State Society was not to meet for about six or in the State, with only seventeen (?) County Medical eight weeks. After my name got into the hands of Societies. These one hundred Counties have between 3400 and 3500 regular physicians, and only of the Society hung fire, meeting after meeting, in 417 who are members of a County Medical Society. order that some quarrel might be "investigated." As regards the proportion of society members in the The result was that my name, and those of several Counties in which societies exist, the following are other applicants for membership, remained unacted

In many respects the "delegate system" is simply Medical Society; 6 are members of the State Meditent knowledge of the applicant. If this Committee cal Society (2 of whom are members of the County shall report favorably thereon to the Society, the Of the 812 in the city only 302 are members of the turned if the candidate be not elected. In the County Medical Society. As the transactions of the Transactions of that Society for 1885 I find that 105 Illinois State Medical Society for 1885 has not yet new members were thus elected at the last annual been published I have not been able to ascertain the meeting. Now, if this method of electing members number of members in the State Society; but I may of the State Society is successful in Virginia, why safely say that there are not 1000 members. From should it not also succeed in Illinois and other States, the "Medical Directory" it appears that only 96 of and in the American Medical Association? It may the 812 in the city are members of the State Society. be said that it is not so desirable to increase the It must be admitted that this is an exceedingly membership of the Societies as to get good men into

sicians; and each should be considered reputable until he shows that he is not, when he may be easily out the objects set forth above, the United States removed. This is certainly much better than keep- should be divided into nine geographical sections, to ing a man out because he may not be all that is be known respectively as the First or Northern, the desirable.

propositions which the secretaries of the county sosocieties members of the State Society simply by vir- arranged as follows: tue of their local membership. 2. Present members erence to membership in local societies. 3. All Wisconsin, 8 States. members to stand upon an equal footing, thus doing ciety would still exclude very many practitioners from membership.

by "Branch," and further discussed in The Journal, of February 27, is one of vital importance to our County and State Societies, to the American Med-District of Columbia, Kentucky, Maryland, North ical Association, and to the whole profession in this country; though it is to be regretted that some of the correspondents have made it appear that Kansas, Missouri, Nebraska, 4 States. "Branch" advocated supplanting or sacrificing the State Societies. Their letters, written with this idea, Nevada, Utah, 3 States. may prejudice many against the plan proposed, even were it the best; but careful reading of his letter will show that he has not advocated any such thing. One thing is very certain: the profession needs more efficient and more active organization than exists at present. The Association is not what it should be, nor are the State and County Societies what they should be. Some organization, based on the suggestions already offered by the correspondents on the Branch question will undoubtedly make them what they should be. Illinois.

TO THE EDITOR OF THE JOURNAL:

Dear Sir: Two admirable letters on this subject have lately appeared in The Journal, one signed "Branch," in the issue of February 6, the other from Dr. James H. Parkinson, of Sacramento, California, should be in the most populous city in its geographical in the issue of February 27, 1886. It seems to the subscriber that the time has come when measures of our Association, and to render it in letter what it already is in spirit, the representative body of the its geographical division. regular medical profession of the United States of North America. How to accomplish this object has been indicated by "Branch" and by Dr. Parkinson.

Our country is so vast that it will not be possible for members who live in distant States to attend meetings which may be held at the extreme North, South, East or West. To overcome these difficulties, the subscriber asks leave to offer some suggestions as tion should be: A President, nine Vice-Presidents, a basis for a plan of organization which, if adopted, will place the American Medical Association in the position which that body should occupy in the medical world, and, as Dr. Parkinson says, enable "the profession to express itself as a unit upon vital follows: The President, the nine Vice-Presidents, questions."

Suggestions.—1. For the purpose of fully carrying Second or Northeastern, the Third or Northwestern, In this connection may be mentioned the following, the Fourth or Eastern, the Fifth or Central, the Sixth or Western, the seventh or Southern, the Eighth or cieties in Ohio have been asked to bring before the Southeastern, and the Ninth or Southwestern, Divisocieties: 1. To so change the constitution of the sion. These nine Divisions should comprise all the State Society as to make the members of the county States and Territories, and the District of Columbia,

First or Northern Division, including Dakota, Illiof the State Society to remain members without ref- nois, Indiana, Iowa, Michigan, Minnesota, Ohio,

Second or Northeastern Division, comprising Conaway with the delegate system. Such amendments necticut, Maine, Massachusetts, New Hampshire, to the constitution of the Illinois State Medical So- New Jersey, New York, Pennsylvania, Rhode Island, Vermont, 9 States.

Third or Northwestern Division, comprising Alaska, It must seem, therefore, that the question opened Idaho, Montana, Oregon, Washington, Wyoming,

6 States.

Fourth or Eastern Division, comprising Delaware, Carolina, Tennessee, Virginia, West Virginia, 8 States. Fifth or Central Division, comprising Colorado,

Sixth or Western Division, comprising California,

Seventh or Southern Division, comprising Arkansas, Indian Territory, Louisiana, Mississippi, 4 States. Eighth or Southeastern Division, comprising Alabama, Florida, Georgia, South Carolina, 4 States.

Ninth or Southwestern Division, comprising Ari-

zona, New Mexico, Texas, 3 States.
2. There should be established nine Branches of the American Medical Association, one in each of the geographical divisions. These Branches should be known respectively as the First or Northern, the Second or Northeastern, the Third or Northwestern, the Fourth or Eastern, the Fifth or Central, the Sixth or Western, the Seventh or Southern, the Eighth or Southeastern, and the Ninth or Southwestern, Branch of the American Medical Association.

3. The headquarters of each Branch Association

4. Each Branch Association should hold one meetshould be taken tending to increase the membership ing annually, and this meeting should not be held any two successive years in any one State belonging to

5. No member of the medical profession should be a member of any Branch until he has joined the American Medical Association, the parent of all the Branches, and none should be eligible for membership to the American Medical Association who is not a member of his State Association.

6. The officers of the American Medical Associaone from each Division, one Secretary, and nine Associate Secretaries (one from each Division), who should be stenographers, and a Treasurer.

7. The Judicial Council should be composed as the Secretary, the Treasurer, two members from each

Division (eighteen), and one appointed at large by of establishing Branches, or of making every State manage the affairs of the Association.

be: A President (one of the nine Vice-Presidents | Association, certainly appears well adapted to achieve of the American Medical Association), Vice-Presi- this desirable object. dents, who should be the Presidents of the various Whether the mass of our physicians are educated State Associations in the Division, a Secretary, and up to this advanced position or not, to make the plan two Associate Secretaries (who should be stenographars). The President, Vice-Presidents, the Secretary under existing circumstances, the better plan would and one member from each State, Territory or Disbetto utilize the State Medical Societies, making them,

should be in the City of Washington, D. C., where there should be held, instead of the annual meetings, in any action that may be taken: First, To enlarge a triennial Congress of the American Medical Asso- and make the American Medical Association a tower ciation, dividing the Congress into fifteen Sections of strength, and to embrace in its membership every as follows:

1. Anatomy, Physiology and Pathology.

- 2. Pharmacology, Botany, Materia Medica and Therapeutics.
  - 3. General Medicine.
  - 4. General Surgery.
  - 5. Obstetrics.

manage its affairs.

- 6. Gynecology. 7. Pediatrics.
- 8. Hygiene, State Medicine and Climatology.
- 9. Chemistry, Toxicology and Forensic Medicine.
- 10. Ophthalmology and Otology.
- 11. Rhinology and Laryngology.
- 12. Dermatology and Syphilis.
- 13. Diseases of the Mind and Nervous System.
- 14. Medical Education, History, Literature and Journalism.
  - 15. Dental and Oral Surgery.
- 10. Each Section should elect its own President, Vice-Presidents, Secretaries and Council with due regard to representation from all the geographical Divisions.

In conclusion the subscriber suggests that the American Medical Association appoint at its next meeting a special committee instructed to frame a comprehensive plan of organization, preserving intact our excellent Code of Ethics, and all the by-laws and special resolutions relating thereto.

ACTIVE MEMBER.

To the Editor of the Journal:

Dear Sir:—A communication in your Journal of February 6, over the signature "Branch," invites attention to a matter of peculiar interest to the medical profession of the country, namely: the discussion chance to join the Association. There are thousands of measures that will more thoroughly bring together who would willingly do so, but who cannot attend and cement the profession, advance the interests of the yearly meeting, or cannot secure election as delmedicine, and build up and strengthen the American egates. Under present rules only delegates, or those Medical Association.

That the American Medical Association should be Association, can become members. to the profession of the United States what the British Medical Association is to the profession of England, the necessity of entending facilities for students who it would seem, should be the earnest wish of every desire to enter, by having examinations at other centrue minded physician of this country; and the idea tres as well as where the college may be situated;

the President, making thirty-one in all, who should Medical Society and every local medical organization a Branch, working in harmony and in consonance 8. The officers of the Branch Associations should with the plans and rules of the American Medical

trict, should constitute the Executive Committee or with the consent of their members, Branches of the Council of each Branch Association and should American Medical Association. This plan is suggested by your correspondent, "Branch," and all the 9. The headquarters of the parent Association objections that might be raised to it fully answered.

> There are two prominent purposes to be aimed at regular, respectable and intelligent physician in every State and Territory of the United States; making it a truly representative body of the entire medical profession, and the supreme authority upon all questions bearing upon the interests of medicine, and the professional and social deportment of its members. And, Second, The advancement of medical science and the collateral branches, and the elevation of the medical profession.

> The Association, at its meeting in 1884, I believe, enacted a law or provision by which any member of a State or local medical society, if in good standing and vouched for, may become a "Member by Application" of the Association. This is surely a very broad provision, and in the right direction; and yet, somehow, the privilege is not understood or properly appreciated by the profession, judging from the rate of increase of membership since the provision was adopted. It seems to lack the attraction and force which attach to Branch organizations, and is wanting in that complement of professional work and responsibility which the latter would impose upon each member. Hence I regard "Branch's" suggestions opportune and good, and hope to see them fully discussed from now on, and brought before the Association at its meeting in St. Louis in next May.

> > MEDICUS.

Baton Rouge, La.

To the Editor of the Journal:

Dear Sir:—I agree with "Branch" in his letter of February 6, as to the propriety of, in some way, popularizing membership in the American Medical Association. Give members of the profession a who live at the place of holding the meeting of the

Our large institutions of learning are-recognizing

thus saving to the applicant the expense and trouble ments were felt in the toes and fingers, with a sensaof long journeys.

members by the thousands.

Very truly yours, J. H. BAXTER, M.D. Washington, D. C., February 20, 1886.

[Some communications have been received which were not accompanied by the name of the author. We would remind contributors that the name and address must always be sent, though not necessarily for publication.—Ed.]

# ACTION OF SUBCUTANEOUS INJECTIONS OF COCAINE.

To the Editor of the Journal:

servations made upon myself:

clapsed after the administration when I felt my heart | can read. beating violently and the blood rushing to the head,

tion of numbness. The feeling of nausea and There should be some regulation adopted by the pressure in the epigastrium was very marked. The American Medical Association, and widely published acme of the paroxysm lasted for over five minutes, to the profession, whereby members of the medical after which I found the face very pale and covered profession can become members of the Association with cold perspiration. The eyeballs were somewhat without presenting themselves in person for election. sunken into the orbit, the pupils were enlarged, but Then, as members increase, the annual dues can be of normal reflex action and accommodative power. decreased. In other words, make it easy to any The objects appeared slightly dim, but of normal reputable member of the medical profession to join proportions. Retraction and coördination of musthe American Medical Association, and in this way cles were not changed. The sensibility of the cornea there is every reason to believe it would number its and conjunctiva was greatly diminished. Pulse was feeble, arterial tension and action of the heart slightly reduced. I felt tired and worn out, unable to concentrate my thoughts or to struggle against the creeping drowsiness. Half an hour after the injection I went to bed, laboring under nausea, general prostration, and slight attack of hemicrania. Sound sleep during the whole night brought about perfect recovery. M. Landesberg, M.D.

40 W. 34th St., New York.

# THE ASSOCIATION LED ASTRAY!

To the Editor of the Journal:

Dear Sir: - My attention has been called to an editorial in the American Practitioner, of February Dear Sir:—With the view of contributing to the 20, reproduced in the Medical News of the 20th ult. knowledge of the action of subcutaneous injections I take it for granted it was written by the senior ediof cocaine, I beg leave to submit the following ob- tor, Dr. D. W. Yandell. To all those familiar with the doings of the American Medical Association this Having read so much of the exhilarating and en- editorial will sound strangely. To quote: "It (the livening actions of cocaine and of its great stimu- A. M. A.) was led astray at New Orleans (Why was lating power upon the cerebral nervous system, I not Dr. D. W. Yandell, ex-President of the Associresolved to try its effects upon myself. For this ation, there to keep it from being led astray?). It purpose I administered to myself, being in good will doubtless be led astray again, and yet again, for health and of usual normal spirits and mental dispo- designing, ambitious, selfish and industrious plotters sition, a subcutaneous injection of ½ grain of muri-sition, a subcutaneous injection of ½ grain of muri-ate of cocaine (Merck), repeating the dose after five their securing power (italics ours) will occasionally minutes, as no effect whatever had taken place in the occur." Dr. D. W. Yandell made his first appearinterval. About five minutes after the last injection ance as a delegate from Kentucky in 1856, then in I felt slight dizziness in the head, a prickling sensa- 1857 and 1859. His name does not appear again tion in the tips of my fingers, and slight pressure in (nor his State) till 1871, when in San Francisco he the epigastrium-all of which symptoms passed off was elected President. Neither his State nor he within ten minutes. I was able to continue the liter- had any claims to the honor. It was, so report said, ary work in which I was just engaged, but with some due to designing, ambitious, selfish and industrious effort. I labored under slight drowsiness and my plotting that the Presidency was awarded him. Since limbs became heavy. The action of the heart and that time the senior editor of the American Practipulsation were rather retarded. The face was pale, tioner and ex-President of the American Medical the sensibility of the cornea normal, that of the mu- Association has attended only four meetings, and cous membrane of the globe slightly reduced. Pupils since 1874 none at all. With the exception of his were regular. Normal condition was reëstablished address as President, no other contributions appear after half an hour of rest, during which time 1 had from his pen to the Association. In Dr. Yandell's full control of my mental faculties.

Address (see page 103, Vol. 23, Trans. A. M. A.) After an interval of four days I repeated the ex- he says: "The Association is making our profession periment, using at once 2 grains of cocaine for one in heart throughout our borders." How does hypodermatic injection. Hardly had two minutes this comport with his ideas of 1886? He who runs

Does such a career entitle the ex-President to read which was quickly followed by a sensation of fulness a lecture to the Association as to how it shall conduct and roaring in the latter and by noises in the ears. itself? The least modicum of modesty should have There was confusion of thought and impairment of taught him to keep his say to himself. Moses did very the faculty of volition. A feeling of great uneasiness well when he was among the people; but when he invaded the whole body, and slight twitching move-climbed the mountain to see "the promised land" his influence was gone. We fear the senior editor of the a corrected list of the membership of their respective American Practitioner was elevated too early for his Societies. years. An ex-President of the Association should have some influence, and it should be in the body ers who have known him for years we sincerely regret the position he has taken. In the welfare and interest of the Association we hope to see Dr. Yandell at St. Louis in May next, and if his Kentucky eloquence can convince the American Medical Association that they have gone astray, we will cordially admit it. We are sorry Dr. Yandell has taken the course he has-we can only pity him.

TRUTH.

## DISINFECTION OF CATHETERS.

To the Editor of the Journal:

Dear Sir:-Permit me in this day of "catheter fever" to offer to your readers my mode of disinfecting catheters. Dr. Alexander Skene says that when he cut into his catheters which had lain several days in a strong solution of carbolic acid, they still contained micrococci underneath the incrustation. Taking a hint from that, I now pass through the catheter a saturated solution of iodoform in ether. The ether penetrates the incrustation, carries with it the iodoform, and performs its function where liquid could not enter. Yours truly,

W. P. SHOEMAKER, M.D.

Bradford, Pa., February 9, 1886.

# ASSOCIATION ITEMS.

# AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in wood, St. Louis, Missouri, Chairman. St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tuesday at 11 A.M.

The delegates shall receive their appointment from permanently organized State Medical Societies and such County and District Medical Societies as are recognized by representation in their respective State Societies, and from the Medical Department of the Army and Navy, and the Marine Hospital Service of the United States.

Each State, County, and District Medical Society entitled to representation shall have the privilege of sending to the Association one delegate for every ten of its regular resident members, and one for every additional fraction of more than half that number: Provided, however, that the number of delegates for any particular State, territory, county, city or town shall not exceed the ratio of one in ten of the resident physicians who may have signed the Code of Ethics of the Association.

lists of their delegates.

### SECTIONS.

"The Chairman of the several Sections shall prewhich has made him distinguished. With many oth- pare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their respective Sections. . . ."—By-Laws, Article 11, Sec. 4.

Practice of Medicine, Materia, Medica and Physiology.-Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .-Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary,

Surgery and Anatomy.-Dr. Nicholas Senn, Milwaukee, Wis., Chairman; Dr. H. H. Mudd, St. Louis, Mo., Secretary.

State Medicine. - Dr. John H. Rauch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas,

Ophthalmology, Otology, Laryngology. - Dr. Eugene Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton, St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nashville, Tenn., Chairman; Dr. W. B. Lawrence, Batesville, Ark., Secretary.

Oral and Dental Surgery .- Dr. John S. Marshall, Chicago, Ill., Chairman; Dr. A. E. Baldwin, Chicago, Ill., Secretary.

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting.—By-Laws.

Committee of Arrangements .- Dr. Le Grand At-

## AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary-all other nominations to be made, as now, by the nominating

By Dr. I. N. Quimby, N. J .- Create a new Section, to be known as the Section on Medical Jurisprudence. WM. B. ATKINSON, M.D.,

Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

# MISCELLANEOUS.

Medical Schools and Students in the United STATES.—The Illinois State Board of Health has recently issued a pamphlet entitled "Medical Education and Medical Colleges in the United States and the Association. Canada, 1765-1885," in which the most suggestive Secretaries of Medical Societies, as above designates and data are: First, that nated, are earnestly requested to forward, at once, the number of medical colleges has not increased during the past year; secondly, that the number of Also, that the Permanent Secretary may be enabled medical students and of medical graduates is decreasto erase from the roll the names of those who have ing; and thirdly, that there is a more marked uniforfeited their membership, the Secretaries are, by formity in the requirements of colleges. There are special resolution, requested to send to him, annually, still 128 institutions for medical instruction in the

United States and Canada, the same aggregate as at a special society, it has occurred to some members the date of the last report. But there were 760 less of the profession that a similar Association of Phystudents in attendance upon, and 273 less graduates sicians and Pathologists is desirable. Two prelimifrom, the sessions of 1884-85, than upon and from nary meetings were held in New York City on the sessions of 1883-84. In the United States there October 10th and December 29th, respectively, at were 953 fewer students and 278 fewer graduates; in which the matter was thoroughly discussed, and, af-Canada there were 176 more students and 5 more ter a general expression of opinion, it was finally graduates. The schools are classified as follows: reg-decided: r. To form an Association of Physicians ular schools, 101; homoepathic 13; eclectic, 11; and Pathologists, of which the number of members physio-medical, 1; and miscellaneous or mixed shall be limited to one hundred (100). 2. To hold schools, 2. The number of medical students in an annual meeting in the month of June in the city 1882-83 was 13,088; in 1883-84, 12,762; in 1884- of Washington. 3. To hold the first meeting on 85, 12,002. In 1881-82 the number of medical Thursday and Friday, the 16th and 17th of June, graduates was 4555; in 2882-83, 4215; in 1883-84, 1886, with Dr. Francis Delafield, of New York, as 4101; and in 1884-85 only 3831. The increase in President. past years in students is most conspicuous in the smaller provincial schools; while in the large cities-Boston, New York, Philadelphia, Baltimore, Cincinnati, Chicago, New Orleans, and St. Louis-there has generally been a decrease. Thus the number of matriculants in medical schools in New York has fallen from 2209 in 1880-81 to 1829 in 1884-85. This fact may be interpreted in two ways. It may either mean that the metropolitan schools are getting more rigid in their requirements, or that the provincial schools are getting to be better educational institutions. We incline to the latter belief. The decrease in the number of graduates, noted above, is most satisfactory, indicating as it does a recognition on the part of the rising generation of the fact that in the United States, of all professions the medical is and for years has been the most overcrowded.—The Mendelssohn and M. Charles Richet have founded a Lancet, February 6, 1886.

Spectroscopy of Blood.—At the recent meeting of the Congress at Grenoble, says the London Medical Record, M. Henocque explained his new method of examining the blood with the spectroscope. The blood in the subungual region of the thumb is carefully examined; then the time necessary for the reduction of oxyhæmoglobin is ascertained; the blood is then placed in white porcelain capsules, when the presence of methæmoglobin can be recognized. The method is clinically useful. A stratum of blood is placed between thin glass slides superposed at an acute angle: this arrangement is called by M. Henocque a hæmatoscope. It shows the necessary quantity of hæmoglobin with reference to the thickness of the strata. M. Henocque has recently invented a chromometric method, in which the hæmatoscope is placed on an enamelled plate, which shows directly the quantity of oxyhæmoglobin contained in the blood examined. M. Henocque showed thin models of hamatospectroscopes, one very simply constructed for the use of students, and another adapted for carrying out minute and delicate researches. Both instruments were constructed by M. Lutz, optician, of Paris.

Association of Physicians and Pathologists. -In view of the fact that each one of the natural divisions of medicine, except those of general medicine and pathology, is represented in this country by

SAPPEY'S TREATISE ON THE LYMPHATICS.—At the meeting of the Academy of Medicine, of Paris, on February 2, M. Sappey presented a copy of his "Treatise on the Lymphatics," which was commenced in 1847. It consists of descriptive text and an atlas of forty-eight plates. At the same meeting of the Academy he presented two quarto volumes, one of which was his "Recherches sur les Eléments figurés du Sang dans la Série Animale," the other a work relating to the respiratory apparatus of birds; and, finally, four volumes representing the last edition of his "Descriptive Anatomy."

Archives Slaves de Biologie. - M. Maurice journal entitled Archives Slaves de Biologie. It will appear every two months, and will contain original articles from scientific Sclavonic authors whose works are intelligible to their fellow countrymen only unless interpreted in another language. MM. Mendelssohn and Richet have had the happy idea of reproducing the valuable memoirs of eminent Sclavonic professors and scientists in a form accessible to all nations. French is so generally spoken and understood throughout the civilised world, that the Archives Slaves de Biologie may be considered to be of universal utitity.

DR. FILEHNE, teacher of Pharmacology in the University of Erlangen, has accepted the Chair of Pharmacology in the University of Breslau.

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U.S. NAVY, DURING THE WEEK ENDING FEBRUARY 20, 1886.

Clark, J. H., Surgeon, detached from the "Hartford" on the reporting of his relief, Medical Inspector Bradley.

Bradley, Michael, Medical Inspector, ordered by steamer of March to from New York to Aspinwall, thence to Panama and to the "Hartford" as the relief of Surgeon J. H. Clark.

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S., MARINE HOS-PITAL SERVICE FOR THE TWO WEEKS ENDED FERRUARY 20, 1886,

Austin, H. W., Surgeon, to proceed to Richford, Vermont, on special duty. Feb. 8, 1886.

Urguhart, F. M., Passed Asst. Surgeon, to proceed to Richmond, Virginia, for temporary duty. Feb. 16, 1886.

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

PUBLISHED WEEKLY.

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CHICAGO, MARCH 13, 1886.

No. 11.

# ORIGINAL LECTURES.

# MALIGNANT COLLOID. VEGETATIONS OF THE UTERUS.

A Clinical Lecture delivered in the Hospital of the University of Pennsylvania, on February 10, 1886.

BY WILLIAM GOODELL, M.D.,

PROFESSOR OF GYN. ECOLOGY IN THE UNIVERSITY OF PENNSYLVANIA, AND GYN. ECOLOGIST TO THE HOSPITAL OF THE UNIVERSITY,

The first case that I shall present to you to-day, gentlemen, is a case that has been sent to me because of difficulty in diagnosis. The case has been examined by several physicians, and as there exists great obscurity and difficulty in arriving at a positive opinion, it possesses more than usual interest. Such cases you will encounter, and they will puzzle you exceedingly unless you have seen such a case to guide you.

The patient is over 40 years of age, she has had six children, and you see how very greatly distended when free it bulges more on the sides. If the fluid ular and during the last three months they have been very profuse. Now I ask her whether she has bleeding after sexual intercourse, and she tells me that she has. Why this should occur it is not hard to imagine, for it is due to the male organ impinging on diseased tissue, the blood-vessels of which, on account of the disease, are very brittle and friable; easily broken down. Now at the first blush I would say that these symptoms look very much like carcinoma of the uterus. Of course this hæmorrhage might be due to polypus hanging down from the os, but polypi are very unusual in women who have borne children; they are a disease of sterile women and old maids; these growths are the results of the constructive and in old maids, results in the formation of such growth as polypi. Well now, we have gone so far, let us look further into the case. This woman com-plains of pain in her back and she tells us that she has a very offensive discharge from the vagina. During the last three months her abdomen has swollen very much.

but even then you would very often go wrong. Some years ago I was positive that I had to do with an ovarian cyst, and when I operated it proved to be ascites. On another occasion when I was equally sure of a cyst, after working for half an hour I found that I had to do with a renal cyst. This woman has been several times tapped on the supposition that she is suffering from ovarian cyst. Now by vaginal examination I have detected carcinoma, which I believe has extended upwards until there is, so to speak, a saddle-bag carcinoma lying over across the spinal column, pressing on some of the large blood-vessels thereabouts and giving rise thus by interference with the circulation to the fluid in the abdomen. Now what would point to ascites and what would point to ovarian cyst? In the first place we must make this examination under great disadvantages, owing to the distended condition of the abdomen. But we note that the abdomen is less prominent, less distended in its most prominent part than it would be if the fluid were encysted. When the fluid is free to move, it sags down more or less to the sides, while if encysted it would project more prominently in front; her abdomen is. Her menses have always been reg- is ascitic we will have resonance in front, because the intestines, containing gas, will float on the surface of the liquid; but look out here, for if the accumulation be very great the intestines may not get all the way up, hence we may have as we do have here, dulness at first, but on deep pressure we secure resonance. Also there may be adhesions that will bind down the intestines, and in this way we will also have dulness. If ascitic we will have dulness in the flanks, for here the fluid comes to the surface. It may happen that in ovarian cyst the intestines will get in front of the cyst, and in such an event we will have resonance, so that you see how much confusion we may have in arriving at a conclusion.

The crucial test will be in making an incision and energy so great in the uterus, and which, not being drawing off some of the fluid. Before making the utilized to construct offspring in those who are sterile incision I will deaden the sensibility of the part by applying to it a piece of ice, on which I have put some salt. I choose the linea alba as the site of the incision, because it is free from blood-vessels; laterally we might wound the epigastric artery or some of its branches, and this accident is by no means a trifling one. But you cannot always select this point, and the rule is to tap wherever indications demand These abdominal tumors will often bother you very without reference to the blood-vessels. When this greatly in diagnosis. I could, of course, give you case was previously tapped, after a time the fluid hard and fast lines, such as you read in the books, seemed to be arrested and it ceased to flow through

matter? I must have struck a solid portion of the proceed at once with the operation. growth; there is some bleeding, but the flow of liquid you consider it wise, make an incision and turn it that one point. out, but it would hardly be wise to resort to such a has carcinoma. Now you see this fluid oozing out when I remove the canula; it will continue to ooze for some time. When she coughs you notice the fluid flows more freely; this is because the coughing throws the liquid in front of the growth, and it thus more readily escapes. It is always best when you start to remove a collection of fluid to remove it all before you stop, and not leave any to ooze out. That should be the rule in all tappings, but especially in the case of ovarian cysts, for if the fluid is allowed to ooze out it may set up a severe inflammation, and very serious results may ensue. Therefore I would condemn as a bad plan that, which you will often hear recommended, of inserting a hypodermic syringe into an obscure tumor and removing some of the fluid for examination. Through this very minute opening sufficient fluid may escape to cause a fatal peritonitis. Now that it is a good rule, it is not so important where the fluid is ascitic, but it is a good and safe rule to follow in all cases of fluid accumulations, for even in ascitic collections the oozing fluid may light up an erysipelatous inflammation at the point of emergence.

Of course it is not always that you can completely evacuate a fluid collection, but when you can, always do so. In the case of a thick colloid it is obviously impossible to do so. I prefer always to avoid tapping for ovarian cysts, preferring greatly to perform the operation of ovariotomy. Remember when you do tap, first to benumb the surface with ice and salt;

the canula, which caused the gentleman who had the that I think there is then less danger of wounding case in charge to think that it was an ovarian cyst; the vessels. If, an honr or two after the tapping, the well, now, there may be a cyst here, but if there is I woman is pale and weak, looks as though she were am of the opinion that there is also ascitis. I have losing blood, you have grounds to fear that you have seen cysts that were caused by, or at least consecn- wounded a vessel in the abdomen or in the sac. tive upon, sarcoma; but they do not, as a rule, ac- Then pick up a bunch of the abdomen about the company carcinoma. The fluid of ascitis is usually point of incision, transfix it with a long needle and clear and of a straw color, but it may be slightly pass around this a figure of eight, on the supposition tinged with green; that from an ovarian cyst is gentally darker; it is often chocolate-colored; but here dominal wall. But suppose the symptoms of hæmagain I must caution you, for we may have blood in orrhage continue after this procedure, what must you ascitic fluid, when it will be somewhat darker in color. You must then conclude that you have wound-Now I have introduced my trocar, but the fluid ed a deep vessel, from which internal hæmorrhage is comes through the canula only in drops; what is the taking place, and the only thing you can do is to

You may ask me now why I do not cut down here is greatly obstructed. There must be here a growth and empty out this colloid mass. I answer, because of great magnitude, for you see I introduced the there is here the complication of extensive malignant aspirating needle some distance above the pubes. disease, and I feel satisfied the woman's days are Now I move the canula about and I get a somewhat numbered. This malignant disease, I believe, inlighter fluid. There certainly must be ascitic fluid volves the broad ligament, ovaries, and fundus of the around this growth; the needle was passed into the uterus. I would not be at all justified in operating growth and now when I move it around I get the in such a case. I cannot say positively why this surrounding fluid. This fluid is so thick, so glue-like, fluid failed to come through the canula, but I am inthat I am inclined to think that we have here a colliclined to think that there are extensive adhesions loid. If you cannot withdraw this fluid by the aspi- between the tumor and the abdominal wall at all rator or by the trocar, what can you do? Why, if points but one, and that my needle failed to strike

To go back to my remarks about tapping, there is procedure in this case, when we know that the woman one exception to the otherwise absolute rule not to tap in ovarian cysts, and that is to be found in cases of women who have heard that some neighbor has been greatly relieved by tapping; such women will not listen to the radical operation, will insist upon tapping, and in such cases you will have to yield to their importunities. Still further, when the tumor is flaccid and there is very marked fluctuation, from which you infer that the wall of the cyst is very thin and it is not pulled down; you may tap under the assumption that it is a parovarian cyst, located in the broad ligament, on one side or the other. These parovarian cysts are not uncommon, and tapping is a perfectly justifiable method of treating them, for in fifty-five per cent. of the cases there is no return. I really believe that in the aggregate the tapping of ovarian cysts is a more fatal performance than is the operation of ovariotomy. Take, for instance, one hundred cases of tapping and an equal number of ovariotomies, and I believe we will have a greater proportion of deaths in the former. This is due to the fact that you cannot always tell beforehand what kind of a fluid you have to deal with; suppose you have a colloid cyst and you let some of this fluid out into the peritoneal cavity; you will be very likely to have a fatal peritonitis. Here is some parovarian fluid that I removed in 1881. Vou see how clear and limpid it is, it is almost like water; but in ovarian cysts the fluid, as I have said, and as you see in this sample, is darker in color (chocolate-colored), and more irritating to the peritoneum. Again, the danger second, to select the linea alba, if possible; and third, is not only from fatal inflammation, but if it does if you happen to wound a blood vessel, to be prompt not go that far it is at least very likely to cause anin your measures for relief. I prefer to use the as-pirator rather than the trocar, for this very reason, have one large cyst and grafted on to this numerous

ficed in the first instance.

have a wound of the surface from which blood or riage, for I misunderstood her broken English (she bloody fluid trickles, we are then very likely to have is a German), and supposed that the miscarriage had erysipelas. In my younger and less experienced occurred only three months ago; but when I found days I was wont to resort, in cases of dropsy from that thirteen months had elapsed I abandoned this heart or kidney disease, to a method that you will idea, for if a decomposing mass had been retained see every now and then recommended, of punctur- for that length of time the evidences of septic infecing, with a bistoury, the dropsical limb. It was sup-tion would have been more marked. I find most of posed to let the fluid drain away and thus afford the these vegetations in the cornua. I feel the grating, patient relief. So it will; but in very many cases it will and now I have removed a great many very small cause ervsipelas of the part; hence I have given up ones. This scraping will often put an end to what this practice. Another serious objection to all kinds has been a persistent and annoying hamorrhage for of tapping is that the fluid re-accumulates very rap- years, but let me urge npon you not to promise too idly. I have seen it re-accumulate in an ovarian much. This is a failing of young men, early in their cyst, after tapping, at the rate of more than a pound career, they take a roseate view of everything and a day, which you must remember represents an im-promise so much that they are frequently doomed mense waste of strength, for this fluid is very rich in to disappointment. Say you are hopeful, or are nutritive material. So, in conclusion, I would again quite confident that you will be able to afford relief, say that, in dropsies, it is best not to tap.

# VEGETATIONS OF THE UTERUS.

days ago for an opinion and treatment. She is 36 plates having her cervical canal dilated. I performed years old, has had six children and one miscarriage, this operation on a neighbor of her's, who suffered that occurred thirteen months ago, when she was terribly from dysmenorrhoea, and as this lady is simfour months advanced in pregnancy. Her menses ilarly afflicted she thought to have the same operation have been regular, but for the past three months the performed. She desires the operation, but is very flow has been very profuse. She now loses blood nervous about it. After writing and asking me all when she moves about, and is very much reduced in manner of conceivable questions, I finally received strength in consequence, but I do not think the from her, yesterday, a letter in which she bluntly hæmorrhage alone has been sufficient to account for asked me whether there was the slightest danger in the loss of strength. Upon examination, I find a the operation. Now what was I to say? All I could slight laceration of the cervix, the uterus is a little tell her was that I have performed the operation some prolapsed, and when I pass the sound it measures two hundred odd times, and that I have never yet only three inches. I can find no tumor either with had any serious results. I could not promise absomy finger in the vagina or by external examination lutely that there was no danger at all. You cannot over the abdomen. Why then does she bleed so? make such a broad promise about any operation, My inference is that since there is no tumor the even of the most trivial nature; if you do, you will hæmorrhage must be due to vascular vegetations in often get caught in very unpleasant positions. Supthe cavity of the uterus, yet the organ is not large pose you are attending a case of typhoid fever and enough to give me the idea that they are very abun-you make a positive promise that the patient will get dant, for if they were the sound ought to give me a well, and he dies, there will be in the family a revul-measurement of at least three and a half inches, sion of feeling that will make it very disagreeable for whereas it gives only three. However, I am going you. You will be sometimes asked, as I have been, to scrape or curette the uterus and we will see what whether the simple passage of the uterine sound can

passage of the sound has caused hæmorrhage. Why a fatal peritonitis, in a case where I simply passed a do I think there are vegetations here? Because I sound, without lifting the uterus at all, I have befind this laceration of the cervix, for such a lacera- come much more conservative in making promises. part. Now I prefer to use a sharp curette. I can dammation was developed and the patient nearly lost her life. On one occasion I scraped away some the dull instrument until you have become proficient vegetations from the uterus of a bride, who was suffering severely from menorrhagia; the parts were so

baby cysts. In the radical operation these babies three, fingers in handling it; if I were to grasp it are so small that they do not complicate the removal roughly with my whole hand, as you would be apt to of the parent cyst, but it is a fact that when you tap do until you have acquired dexterity. I would likely and remove the fluid from the mother cysts, these do the womb some injury. Yes, I am right; here babies take on rapid growth, and when you finally you see these vegetations that 1 have scraped away, come to operate a much larger incision will be required to remove the disease than would have suf- hamorrhage I was inclined to think that it was probably due to the retention of some of the products of To go back again, I would say that wherever we conception, left behind at the time of her miscarbut do not absolutely promise; leave promises to quacks, for this is their stock in trade.

At the present time I am being very much both-Here is a woman who was sent to my office a few ered by a correspondence with a lady who contembe attended with any danger. I used to answer this You notice that blood oozes from the vulva; the question in the negative, but since the occurrence of tion is very likely to cause vegetations, since it is a A celebrated New York gynecologist once introsource of irritation, and thus invites blood to the duced a pessary, as the result of which a furious in-

small that I was obliged to dilate with sponge-tents before I could introduce the curette. In two days she was dead. The fatal result in this case I attributed more particularly to the sponge-tents, and I THE MECHANICAL TREATMENT OF THE VOMITING have abandoned their use, resorting to the dilator when I find the parts too small to admit the curette. I would say, but I would not promise, that there is very little risk in curetting, if the patient keeps her bed for awhile and is careful. Now after scraping, I swab out the uterus with tincture of iodine, which is antiseptic and also completes the destruction of those vegetations which my instrument has bruised but not removed.

These cases of unexpected death are most distress. ing. Suppose I remove a cancer of the womb and the woman dies; the result is not shocking, for it is a result to be feared, and besides it is only a question of time when the disease would have killed her. But if death ensues from such an operation as curetting or dilatation of the cervix, both resorted to not for the relief of conditions that endanger life but merely to make the woman more comfortable, it is truly shocking. But in all my curette operations, I have never had serious results save only in the case referred to, and where, as I said, I laid the blame on

the sponge-tents.

We will keep this woman in the hospital until all soreness has gone. We will take her temperature three times a day, and the moment there is any rise we will give her an opium suppository. I cannot tell you how much faith I have in the power of opium, given early, to check the occurrence of inflammation about the female pelvis. In puerperal women, after doing well for two, three or four days after labor, they may wake up some morning with severe pain in the abdomen and the temperature up to 103° or 104°. This means a commencing inflammation of the broad ligament, and it can be nearly always checked in its incipiency by a suppository of opium, so that if a puerperal woman has an intelligent nurse, I am in the habit of leaving some opium suppositories, to be used if these conditions develop. If you can give a hypodermic it will check it even more rapidly. Here also does quinine come in well, and I would give from five to ten grains at a dose, repeating it until the head is affected. The ice cap to the head and the ice cap to the abdomen must not be neglected. I always use it to the head if the temperature gets up to 101°, and if above this point, to the abdomen as well. If there is moderate soreness I apply a poultice. There is one other remedy in which I have great faith, namely, digitalis. After putting ice on the head and stomach, I give ten drops of the tincture of digitalis every hour, and increase it to fifteen or twenty drops if it does not bring down the pulse and temperature. It may irritate the stomach, but I have never seen other toxic symptoms, as the effect on the head will warn us in time when to stop its use.

# ORIGINAL ARTICLES.

# OF PREGNANCY.1

BY JOSEPH TABER JOHNSON, M.D., OF WASHINGTON, D. C.

The vomiting of pregnancy is a condition which the physician is frequently called upon to relieve. and in the great majority of cases he is either successful in his treatment, or the patients get well by themselves. There is, however, a small proportion of cases which are not curable by any treatment short of the complete removal of the cause; and a still smaller number which resist all treatment, abortion

included, and finally starve and die.

In that class of cases usually referred to as the "uncontrollable vomiting of pregnancy," the books tell us that nearly every remedy named in the materia medica has been employed in the vain attempt to cure. Some of these sufferers are relieved by treatment; some for a time seemed to be cured, while the trouble recurs later on; others are not benefited by any drug, and are sick from almost the first to the last days of gestation, but not severely so; and, as above stated, some die, either from the direct results of the continued vomiting, or from some intercurrent affection set up or aggravated by it. While in all cases the vomiting is caused by the pregnancy, this cause does not operate in the same manner in all persons, inasmuch as remedies which seem to cure some have no effect upon others; or upon the person cured in a subsequent pregnancy. For instance, drugs which relieve certain nervous and emotional women do not relieve patients who are not nervous or emotional, or when the special cause resides in an anteflexed or retroverted uterus, a granular os, or a rigid cervix. So that any suggestion which gives promise of aid in this distressing class of cases would naturally attract attention, and should be given an opportunity, at least, to prove its right and title to a place upon the list.

Before referring to special modes of treatment, I wish to briefly draw attention to a few statements bearing upon the mortality of this affection, partly by way of apology for occupying the time of this Society with a subject which is usually, and perhaps too often considered one of the trivial or slight ailments of pregnancy. That in certain rare cases of this disturbance, which have been called sympathetic by some, emotional by others, and reflex by all writers, the vomiting has become so dangerous to life as to demand relief at any cost, we have abundant evidence in recent journal literature and text-books upon midwifery. It is rare that fatal results follow these annoying symptoms. It is perhaps not within the experience of a single member of this Society that death has been the direct result of the uncontrollable vomiting of pregnancy, as it is called; and yet we have altogether too numerous examples of the mortality accompanying this condition. Thus, Barnes<sup>2</sup>

<sup>1</sup> Read before the Medical Society of the District of Columbia on February 10, 1885, <sup>2</sup> Barnes's System of Obstetric Medicine and Surgery, p. 274.

cases.

Joulin, who has recently reported 121 cases, with was injected with a small syringe into the uterus." forty-nine deaths. Without treatment, of fifty-seven This produced little or no result. The husband saving of twenty-seven lives.

ject, states that "numerous cases have been recorded time, not finding him at home, wrote him a long letduring the last fifty years in which death has resulted ter expressing his views of the case, and announced from, or in connection with, the excessive and severe his intention of changing physicians and courteously vomiting of pregnancy." He says that "the largest requested his bill. number of fatal cases observed by any one individual After this statement I took charge of the case and is twenty; and that since the practice of inducing examined his wife. I found the pregnant uterus abortion has somewhat increased in dangerous vom- somewhat prolapsed and anteverted. I corrected iting, the number of fatal cases has decreased."

ment almost deny the agency of the stomach in the nothing into her mouth, and that she be fed entirely vomiting of pregnancy, and claim that the adminis- by the rectum. I also directed that she have, in adtration of medicines per orum or per rectum is of no dition to her milk and beef-tea, large doses of the avail, and are consequently worse than useless bromide of potassium with a little brandy and about -as they consume valuable time-I thought that it 10 drops of laudanum, to prevent rectal irritation, might be profitable to consider in a group by them- every four hours—a mode of practice inaugurated selves the principal mechanical methods in the prac- and often successfully carried out by a distinguished tice of which drugs are excluded as unnecessary. I member of this Society, Dr. S. C. Busey. do not intend, therefore, to open up the entire ques- When I called on the morning of the 8th I found tion of the causation and treatment of this subject, that my directions had been strictly obeyed, but the which has recently been discussed in our Obstetrical patient was no better. Indeed, she had vomited all Society, but to confine this discussion to the consid-night, and some of the time had been quite delirious. eration of what I call its mechanical treatment.

merits of Copeman's method by dilating the cervix both wife and husband asserted positively that for uteri for the relief of an aggravated case of gravid a month no food had been retained, and for the week nausea and vomiting, I have written out the main previous to my seeing her she had taken nothing but points of the case, which are as follows:

Case.—Late in the evening of January 7 I was this statement. Her face was somewhat swollen, but called by telephone to see Mrs. X., on account of her body and limbs were greatly emaciated. She had uncontrollable vomiting which had resisted all treat-been unable to get out of bed for two weeks, and had ment for more than a month. Her husband gave me the greatest difficulty in raising herself on her elbow the following history of the case, as near as 1 can to vomit, and some of the time the vomited matter recollect it: His wife had missed her period just was caught on towels as it was ejected from the side two months. For the first three weeks she had not of the mouth. I persisted for twenty-four hours more suffered unusually, but after that time her sickness in the use of remedies, mostly by the rectum, but had increased, and from troubling her in the morning, it small powders of calomel, oxalate of cerium, ingluvin, gradually became worse until, at the end of her first bismuth, and finally morphine, in turn placed on her month, she was vomiting throughout the entire day; tongue. The vomiting went on just the same. I and it soon became so constant that she found no told the husband there was one other remedy which

says that in a far larger proportion than is commonly worse at night than during the day. For a month a accepted death is the termination, unless averted by physician had been in attendance, and part of the time abortion. "It is impossible," he says, "to state the two. They did everything they could with medicine gives examples of fatal cases. . . The danger of thirty to forty different remedies were tried, but the affection is sometimes doubted, and this doubt, founded on subjective ignorance, is urged as a plea informed me, the doctors thought everything had against the induction of labor." McClintock, with a been accomplished which lay within the power of very moderate amount of research, says: "I have drugs, and fearing the lady would die if not soon been able to collect close on fifty authentically re-relieved, they suggested that an abortion be incorded cases, and I know of others which have not duced in order to save her life. This suggestion been published. We ourselves have seen nine fatal was agreed to, and several ounces of ergot were administered, only to be vomited as soon as swallowed, Lusk, in the last edition of his now famous work and without producing any other effect. So the paon Midwifery, says (p. 126): "In general, with tient was one day placed in position with her butsevere cases, the prognosis is bad;" and quotes from tocks at the edge of the bed, and "some fluid cases twenty-eight were fatal; with treatment, where got the impression, from some consultations he abortion was induced, of thirty-six patients nine only partly overheard between the physicians, that doubt died. By the method of artificial interruption of was entertained whether his wife was pregnant at all. pregnancy, McClintock reports in thirty-six cases the He felt certain that she was, and was exceedingly anxious about the result. He informed me that he Grailey Hewitt, in a recent paper upon this sub-called at his physician's house, and after waiting some

this displacement by digital manipulation, but as no As the advocates of the mechanical mode of treat- relief followed, I directed the patient to take absolutely

She had a dry, brown tongue, and a cadaveric odor As I recently had an opportunity of testing the to her breath. She had been in bed four weeks, and ginger ale. Her condition and appearance confirmed relief at night. Indeed, after another week it was I wished to make use of, introduced and successfully I believed his wife would soon die if not relieved.

of a number of our best physicians. As the vomiting was not controlled, several changes had been made, and I am informed that all the physicians in attendance had considered her dangerously ill-although ine contractions set in, and by midnight of the the vomiting continued until the birth of the child, teth instant she miscarried a two months feetus, which was thought to have occurred prematurely. The next day she ate freely of lamb chops and milk She was kept alive for three or four months on rectal toast, and has not vomited since, and was soon up alimentation, and I am informed that her physician and walking about the house. told the husband that his wife had made a very narrow escape, and that if ever she became pregnant is produced by the failure of the rigid fibres about again she would be very likely to die. How much the internal os, and in the cervix uteri, to soften and of this statement is correct, I am unable to say, but dilate under the influence of advancing pregnancy, the wife and the husband told me at different times finds some confirmation in the occurrence of nausea and separately that her recovery was very slow, and and vomiting which so frequently occur to women in that when she was finally able to ride out she was labor. As nterine contractions occur and continue, taken over to the Smithsonian Institution and was producing the physiological softening and dilatation weighed with all her heavy wraps on, and then only necessary for the passage of the child through them, weighed seventy-six pounds, though her usual weight repeated vomitings take place. This has been conwas 140. It was the belief of both Mr. and Mrs. sidered so usual and necessary an accompaniment of the past month. I could readily believe this, as she where the dilatation was very slow or would not

folds about her legs and arms.

those of the internal os in cases in which a less vomiting disappeared also. dilatation failed. In this paper he relates a number of successful cases. Several papers soon followed Dr. Gill Wylie says: "If there is a doubt about the confirmatory of Dr. Copeman's practice, in British amount of dilatation, the best test is to put the paand American journals; notably one from Marion tient on her back, and when the index finger up to Sims, in 1880, and published in the Archives of Med- the first joint can be easily passed into the cervix, the icine for that year, and one by W. Gill Wylie, in the dilatation is sufficient. Before resorting to abortion Medical Record, of Dec. 6, 1884. The recent works in any case where dilatation up to the os internum of Lusk and Barnes recommend this practice as a failed. I would first dilate the os internum and wait proper and justifiable mode of treating these cases. long enough to see if it would stop the vomiting; for I therefore felt that I was warranted in giving it a this can be done in some cases without abortion nectrial, and after fully explaining to the husband and essarily following. wife what I proposed to do, with their consent, on the I then proceeded with my finger, and with a pushing disease on the tissues of the cervix. and boring motion stretched the cervical canal until it admitted my index finger to the internal os, but the softening and other changes, which the cervix undernot through it. I found tight, unyielding circular goes during pregnancy, may cause nauseal vomiting. bands at the external os, and also near the internal os, which finally gave way. There were but a few dilating the cervix uteri below the os internum, and drops of blood, and those came from the puncture of in many instances it is the only means by which relief the tenaculum.

I called in the evening I found that the patient had must be dilated.

practised by Copeman, of Norwich, England, and if vomited but once, and that she was feeling very comthat was not successful I would ask for counsel, and fortable, and much encouraged. The vomiting was if agreed to, would put an end to the pregnancy, as occasioned by the drinking of a tumbler full of milk just before my arrival. The stomach had been per-Perhaps at this point I should state that less than feetly quiet since the dilatation; the patient began to three years ago she had gone through with a some-feel hungry, and, thinking herself cured, indulged in what similar experience, and had been under the care this full glass of milk, with the result stated. She

X. that the patient had lost at least fifty pounds in the average normal first stage of labor, that in cases was very thin, and the skin hung in loose wrinkled begin, nauseating remedies have been frequently prescribed with the hope of facilitating this process. In the British Medical Journal, for May 15, 1878, In that form of dysmenorrhoa, also, where there is Dr. Edward Copeman published an article entitled a hard, unyielding, narrow cervix, nausea and the "Dilatation of the Os Uteri for Vomiting in Preg- most violent and distressing vomiting may precede nancy," in which he claimed that most, if not all and accompany the menstrual periods. I have resuch cases could be cured by the dilatation of the cently cured some of these cases by Goodell's method muscular fibres of the neck of the uterus-including of rapid dilatation of the cervical canal, and the

In referring to the usefulness of Copeman's method,

"Conclusions .- 1. That nausea and vomiting, or morning of January 10 I dilated the cervix uteri with morning sickness in pregnancy, should not be conmy finger. I found it impossible at first to insert my sidered and treated as merely one of the symptoms finger, and therefore, fixing the cervix with a fine of pregnancy, but, as a rule, as indicating an abnortenaculum, I expanded the fibres of the external os mal condition of the tissues of the cervix uteri, due with the blades of Bozeman's uterine dressing forceps, to imperfect development, disease, or the effect of

"2. That any pathological state which interferes with

"3. That in most cases relief is obtained by freely can be had. It is true that inducing abortion will I continued the rectal injection of food, and when give relief, but to accomplish this the cervix uteri

by the mouth are useless, and, as a rule, should not life, but two days subsequently she aborted.

indications for local treatment ascertained." of congestion and inflammation. Hewitt contends eat without trouble from that time on. that the histories given by Horwitz plainly show that Dr. H. F. Campbell, of Georgia, who was elected aborted.

tion of abortion in order to save the life of his patient, and has several times practised it, yet he thinks the safest and most successful method of mechanical that this very disagreeable procedure would not be or any other treatment. Ten years ago the celeforced upon us if more attention was given to the brated author of this elaborate paper called attention position of the gravid uterus, and its displacements to this subject, and in addition to the treatment of corrected by appropriate mechanical support. He "gravid nausea," as he calls it, proposed to treat all has devised an instrument which has an exceedingly cases of uterine displacement except inversion by appropriate name, inasmuch as he calls it his "cradle placing the woman in a position where the laws of pessary," in which the feetus is probably rocked to gravity would be reversed. By drawing back the sleep while listening to the swish-swash of the bag of perineum the air rushes into and balloons the vagina; waters, and the gentle murmurs of the umbilical cord and as the intestines sag downwards and forwards,

and placental souffle. replacement of the gravid uterus-while it was the its bed, and thus assisted to swing down into position. general view, also, that this mode of treatment was In most cases it is only necessary to place the pa

"4. That in many cases specific medicines given vomiting which was seriously threatening the patient's

be used until a local examination is made and the I may refer here to a case I saw several years ago, where a lady was suddenly attacked with the most In Vol. XXVI of the Trans. of the Obstetrical intractable, constant and uncontrollable vomiting I Society of London, page 273, is a very elaborate ever saw. She was not relieved by anything I did article by Prof. Grailey Hewitt, in which he sets forth during the greater part of three days and nights. at great length his views as to the causation of the Finally I obtained the key to the situation when invomiting of pregnancy. He claims that all, or nearly formed that she was possibly ten weeks pregnant with all cases are produced by the ante-displacements of her first child, and that the vomiting promptly set in the gravid uterus, and cites the histories of many pa- after she had climbed with a party of friends to the tients who were successfully treated by a restoration dome of the Capitol. I immediately asked for an of the uterus to its normal position, requiring none examination, which was at first refused, but when inof the medicines usually prescribed subsequently, formed that relief to her constant and increasing suf-Hewitt combats the theory of Horwitz, of St. Peters- fering might be obtained through information thus burg, who, in a recent paper, gave the histories of gained, objections were withdrawn. I found the ten cases of the severe or uncontrollable vomiting gravid uterus much displaced and anteverted, and at which he accounted for on the ground of a degener- once replaced it with my finger. The relief was ation of the uterine tissues resulting from a mild form instantaneous. She did not vomit again, and could

in his cases there was a displacement of the uterus, President of the American Medical Association at which could have been restored by appropriate me- the meeting recently held in this city, in a paper coverchanical treatment, and thus cured of a very danger- ing 120 pages, presented to the American Gynecologous malady. Notwithstanding the best attention was ical Society at its last meeting, also held in this given by Horwitz, three of his cases died and several city, agrees with Grailey Hewitt that the vomiting of pregnancy is produced by gravid displacements, but Though Grailey Hewitt would approve the induc- differs from him as to the mode of treatment. Dr. the uterus gravitates or swings into place, thus over-The discussion of Hewitt's paper was participated coming its displacement. In cases in which serious in by some of the best talent in the London Obstet-rical Society—calling to their feet such men as Play-takes place, he assists the uterine replacement by the fair, Braxton Hicks, Barnes, Galabin, and others, fingers or by pneumatic or hydrostatic pressure. A who, while they accused Hewitt of riding a favorite Barnes's dilator or Braun's colporynteur is placed hobby rather hard, generally agreed that many cases in the rectum or upper part of the vagina, and inflated of gravid nausea and vomiting could be cured by a with air or water, the impacted organ pried out of

not so universally demanded as the distinguished tient in the true genu-pectoral posture to accomplish author of the paper imagined. Cases were cited by the result desired. When re-position is thus effected Hicks and others in which replacement of the uterus nausea ceases, medication is avoided, and the patient did not control the vomiting, and still other cases is fed by rectal alimentation until the stomach suffiwhere severe vomiting occurred entirely independent cliently recovers its tone to receive and digest food, of any gravid displacement. It was conceded, however, to be a very valuable mode of treatment in times before a complete cure is effected. Campbell appropriate cases. Incidentally the Copeman method relates a number of cases cured in this way without was generally endorsed. Several cases were cited, drugs, and states that many medical friends in his however, which terminated as mine did where it was part of the State are succeeding in curing gravid practised. Grailey Hewitt refers to the history of nausea by his method. While the impacted pregnant one case quite similar to the one which forms the uterus is often lifted out of the pelvic cavity and basis of this paper, in which he replaced the anteflexed above the s. p. by the aid of some of the same forces gravid uterus and dilated the hard rigid cervix at the which are employed by Campbell, their mode of emsame time. There was an immediate arrest of the ployment differs, and the object differs. In one case

it is done simply to overcome the impaction which, this evening, and in this instance the abortion was if left uncured, would result in a fatal interference unintentional and therefore accidental.

application the relief was marked, and that in a few septicæmia. days she was completely cured. The recovery was heralded as little less than a miracle. I have had one of these modes of treatment as a new discovery dessuch case, and was greatly surprised by my perfect tined to take the place of all other methods, I think success in curing a patient who had been confined to that a due regard to the progress of the age and eat, until finally the smell of food caused emesis. value of these comparatively new suggestions before She was very weak, and considerably emaciated. resorting to such revolting and destructive practice She had taken many different remedies with no bene- as we have demonstrated in the beginning of this with Dr. S. L. Cook, no Capitol Hill.

The last mode of mechanical treatment to which I shall refer is the artificial induction of abortion; and I refer to it in the same spirit in which I should refer to the last resource of our art in that very distressing class of cases which demands from the physician the performance of craniotomy in order to save the life of the mother. In both cases I should feel much regret that the obstetric art had failed in its high and holy mission, and was shorn of its crowning glory in falling short of delivering a live child from a live mother. In both cases I should accept this sacrificial practice only as a last resort, after all substitutes and

with vital functions; in the other, before such inter-ference would occur from the size of the uterus, to failed, including the mechanical methods which I cure the nausea resulting from such displacement, have mentioned in this paper, and I was impressed Campbell closes his paper in the following words: with the conviction that the woman would die if not re-"Believing, as I do, that gravid displacement is in-lieved, I should call a consultation, and unhesitatingly deed the true source of all the observed histological recommend, and if agreed to perform, artificial aboralterations in the gravid uterus, and also that this tion. The exact mechanical methods I am fortugravid displacement is, as I have said, the fons et nately not familiar with, inasmuch as I have never origo of the gravid nausea, I must urge as my first yet seen a case where I thought it necessary to resort and last expedient for the relief of all these common to this mode of treatment. The case narrated, of evils, arising from a common cause, repeated postural Mrs. X., came the nearest to it, and as the Copeman pneumatic reduction in the genu-pectoral position." method in my hands and the hands of others has in In the *London Lancet*, for February, 1878, Dr. M. several instances produced this result, I should recompose, of Chicago, published a paper on "Vommend the dilatation of the cervix with an instrument iting in Pregnancy," and advocated in certain cases or the finger up to the internal os, and if the vomiting the local application of nitrate of silver to the os was not arrested, and other means had failed, I should uteri as a cure. This mode of treatment could not suggest that the internal os be dilated, and if pains have originated with Dr. Jones, as Dr. Marion Sims did not soon come on, to pass a flexible bougie up to reported a case a number of years prior to Jones's the fundus uteri between the membranes and the paper, in which he cured a noble lady in Paris who walls of the uterus. All means likely to lacerate the had been given over to die by a number of eminent tissues—and among these I should include sponge physicians who had religious scruples against the intents—would be likely to do harm by producing abduction of abortion. Sims reports that from the first sorbing surfaces and thus favoring the occurrence of

While I am not an especial advocate of any one bed for two weeks, vomiting everything she would events demands of us that we consider and try the fit. Injections of the bromide of potassium did no paper, may sometimes be required of us in order to good. She was kept alive, I believe, by the injection save valuable lives entrusted to our care. When this of food per rectum. The efforts to vomit continued, form of mechanical treatment is agreed by competent and were not relieved until the nitrate of silver was consultants to be demanded by the sad exigencies of applied. She immediately became better and the any case, I recommend that it should not be delayed vomiting soon stopped, and she finally gave birth to until it is too late to save even the mother's life, as a a fine healthy child. I saw this case in consultation number of cases have been recently reported where, notwithstanding the tardy removal of the cause, the patients finally succumbed. Relief came too late.

> PERINEAL MEDIAN URETHROTOMY; REMOVAL OF LARGE QUANTITY OF SANDY GRAVEL; DILA-TATION OF URETERS; DOUBLE PYONEPHRO-SIS; HYPERTROPHY OF BLADDER; DEATH.

> > BY EDWARD HORNIBROOK, M.D.,

OF CHEROKEE, 10WA.

N. B. Batterson, et. 51, consulted me July 17th. alternatives had failed or were inapplicable—and in 1881, and gave the following history: Ancestors for both cases I should in all conscience side with Barnes several generations long-lived and healthy. He enwhen he says that "a law of humanity, hallowed joyed good health till ten years ago. Then had re-by every creed and obeyed by every school, tells tention of urine brought on by heavy lifting. The us, where the hard alternative is set before us, physician in attendance retained gum-elastic catheter that our first and paramount duty is to preserve for eight days. At the end of that time the patient the mother, even if it involve the sacrifice of the passed large quantities of blood. He says that this child." In this "last extremity of our art and the was after, not before, removal of catheter. He has forlorn hope of the patient," as Professor Davis calls had constant vesical irritation since. Pus and mucus it, my experience is limited to the case related here passed daily for first four years. He was then free

from purulent or bloody urine for eighteen months. after death by Drs. Sherman, Vail, and Burlingame, For last two and a half years he has been passing who kindly removed the bladder, kidneys and urebloody urine and pus at frequent intervals. Hæmaturia has always occurred after lifting heavy weights, which he was often required to do in his employment as a grocer's clerk. Requires to urinate every at least three-quarters of an inch in diameter; and half hour, night and day. Symptoms not relieved there was about three ounces of pus in each kidney by recumbent position. Has had frequent symp- and its ureter. toms of a calculus passing through urethra, but never passages painful. Prostate gland enlarged and ten- each reader to make his own deductions. Catheter passes easily, but there are two slight strictures in membranous portion of urethra. Urine drawn by catheter alkaline in reaction and mixed with pus. No stone in bladder.

Under treatment, principally with the dilute mineral acids, benzoic acid and rectal suppositories, his condition was ameliorated until May 12th, 1885. examination. After repeated trials I failed to grasp the stone with the lithotrite. It was of large size and placed just above and behind the neck of the bladder, apparently lodged in a pouch from which it could not be removed. He suffered little during but the patient refused to consent to the operation.

quantities of pus, and was horribly offensive.

thoroughly with a strong stream of carbolized water. By this means more than two ounces of this sandy were also washed away.

I retained a tube in the wound with the intention of practicing daily irrigation. The next day the bladder was washed out till the water came away clear. After a few minutes nearly an ounce of fætid pus followed. This convinced me that the pus was discharging from the kidneys, and added to the gravity of the prognosis.

The washing out of the bladder was continued till November 9th, when he sank exhausted. He suffered less after the operation than before.

Many questions, of course, suggest themselves as saw any. After these symptoms he often passes to the etiology, the course of the disease, and the large lumps of hardened mucus. Has not passed cause of the pathological conditions. I will not atcatheter for last two years. Bowels constipated and tempt to theorize, but merely state the facts, leaving

Cherokee, Iowa, February 3d, 1886.

# MEDICAL PROGRESS.

INCREASE IN NUMBER OF WHITE CORPUSCIES IN He then complained of the usual symptoms of ves- THE BLOOD IN INFLAMMATION, ESPECIALLY IN THOSE ical calculus. I readily detected stone, and advised | CASES ACCOMPANIED BY SUPPURATION.—At the meetoperation. Very offensive pus escaped during the ing of the Royal Medical and Chirurgical Society, on January 12, Mr. T. P. Gostling read a paper on this subject. Observations of Virchow, Nasse, and Malassez on the increase in number of white corpuscles in the blood in different inflammatory conditions were alluded to. The estimations recorded in the attempt; there was no shock, and he seemed as this paper by the author had been made with a Gowwell as usual next day. I recommended lithotomy, ers's hæmacytometer, and the results were given in percentage numbers of red, and in relative numbers He passed from observation until October 12th, of white corpuscles, the normal number being taken when he sent for me and urged me to undertake the as I white to 333 red corpuscles, as stated by Dr. operation, as his health was giving way under his Gowers. Estimations had been made in the following constant suffering. I reluctantly consented, as the cases: Case 1, iliac abscess; Case 2, pelvic cellulitis urine was then strongly alkaline, contained large and probably abscess; Case 3, suppurating white leg; Case 4, suppurating tonsillitis; Cases 5 and 6, white On October 20th, in the presence and with the swelling treated by the actual cautery; Cases 7, 8, 9, assistance of several of my professional confreres, I and 10, empyema; Cases 11, 12, and 13, phthisis; performed the operation according to Allerton's Cases 14 and 15, serous pleurisy; Case 16, lobar method. After dilating the prostate I introduced pneumonia; Cases 17 and 18, typhoid fever; Case the scoop to dislodge the stone from the pouch in 19, acute rheumatism. In the iliac abscess, Case 1, which I thought it to be imbedded, when it crumbled ten observations were made on separate days before into small crystals. On passing my finger into the the abscess was opened. The first half of these estibladder the whole mucous membrane seemed cov- mations showed the relative average number of white ered with an incrustation of this sandy gravel, which to red corpuscles to be 1 to 160; the second half 1 to I was unable to remove without removing the mu- 101. The abscess was then opened, and the proporcous membrane with it. I removed what I could tion immediately fell to 1 to 383; after which there with the scoop and irrigated the mucous membrane was a slight increase and then a steady decrease to the normal proportion, as was shown by the following averages: 1 to 203, 1 to 223, 1 to 252 and 1 to 358. gravel were removed. Shreds of mucous membrane In Case 2, which was one of pelvic cellulitis and probably abscess, there was found, for a long period, a large increase in the number of white blood-corpuscles. As was shown by the averages given below, these covered a period of 84 days, and each average was made from five estimations: 1 to 148, 1 to 172, 1 to 150, 1 to 158, 1 to 167. During the above period, grave symptoms existed; but on May 15th, these began to improve, and at once the relative number of white corpuscles decreased to 1 to 250, and on May 10th reached the proportion of 1 to 366. It was thought that an abscess in this case had discharged A post-mortem examination was made twelve hours by the bowel, and if so, the sudden fall would correspond with that seen in Case 1. Analogous condi-sidered that, in surgical cases, abscesses were very tions were found in the other cases. The new series commonly absorbed, and sometimes very quickly. of observations were from cases of phthisis (Nos. 11 M. Bryant agreed on this point of surgical experience; and 12), in both of which cavities secreting pus ex- he had certainly seen pints of pus absorbed. Dr. isted in the lung. Cases of serous pleurisy, acute Ringer suggested that in these cases the pus-cells of rheumatism, typhoid fever, pneumonia, and cauterisa- the abscess had degenerated and changed their chartion, were also considered with reference to the pro- acter before absorption. Mr. Gostling, in reply to portion of white corpuscles. The following conclusions Dr. O'Connor, had only to refer to the very numerous were drawn. I. White corpuscles are increased in tables of his observations which were hung on the number in suppurative inflammations, especially when walls, and showed the number of red corpuscles as accompanied by tension. 2. They are slightly in very nearly normal—if, indeed, any exact normal creased in parenchymatous inflammations. 3. They standard could be attained, He had found a very are not increased in inflammations accompanied by marked increase in the white corpuscles before any serous or sero-fibrinous exudation.

seemed to him to have demonstrated the increase of served, and also in the two cases of white swelling white corpuscles in the blood in inflammation; and before they had been treated by cauterisation. of the origin of this excess there were two chief British Medical Journal, January 16, 1886. hypotheses—that they were formed in the blood itself, or that they were absorbed from the suppurating parts. He agreed with Mr. Gostling in inclining to the second. If that were so, it led almost of necessity to the conclusion that the corpuscles multiplied after escaping from the blood-vessels. Dr. George Thin said that there could be no doubt that the white corpuscles, after leaving the vessels, did multiply. In which were united and returned within the abdomen. The six pure examinations of the corpusc of rabbits multiply required. This case excited come linear the corpuscion of the corpuscion of the corpuscion. his own examinations of the corneæ of rabbits, pub-patient recovered. This case excited some discussion lished about ten years ago, he had fixed them with at the meeting at which it was related, and we comosmic acid, and had observed them in all the stages mented on it. We find that, within a few days of the of subdivision and multiplication. The question reading of this paper, and before a report of it had whether the white corpuscles were ever formed from crossed the Atlantic, a very similar operation was perthe tissues was one of deep interest and keen con- formed in America, and with an equally successful troversy. He did not wish to pretend to decide it, issue. The case is recorded in the current number but he thought that certainly no decisive evidence of the International Medical Journal, and was under had been brought forward to show that pus originated the care of Dr. Clark Stewart, of New York. The from the tissues. Mr. Victor Horsley thought that published report of this case is deficient in many par-Mr. Gostling had certainly demonstrated the important ticulars. Thus no mention is made of the state of point that increase of white corpuscles was connected the coil of intestine in the hernia, but only of the with tension. If the question of their origin at a diverticulum, except that it is once called "diseased;" particular inflamed part were at issue, the first thing and it is only from the heading of the report that we to do would be to compare the blood of the artery infer it to have been gangrenous. Nor is there any supplying the part with the blood of the vein coming satisfactory mention made of the state of the coverfrom it. There was no support offered by the facts ings of the hernial sac. The sequel of the case is of Mr. Gostling's paper to the theory that pus origi- also given in a very imperfect manner. In spite of nated from fixed tissues, and that was in accordance these defects, however, the report is valuable, and with Mr. Dowdeswell's conclusions. Dr. Angel suggests one or two points for discussion. Money had made some observations on the blood in First, as to the advantage of the operation. Dr.

distinct evidence of abscess-formation could be ob-Dr. Sidney Ringer remarked that Mr. Gostling tained, both in the case of iliac abscess he had ob-

RESECTION OF GANGRENOUS INTESTINE. - Nine

phthisis and empyema and quite agreed with the re- Stewart says that out of twenty herniotomies he has sults of Mr. Gostling's most laborious researches. He seen, gangrenous gut has been found in two instances, was rather surprised that Mr. Horsley should seem to and in both the bowel was opened and left in situ, overlook the possible reabsorption of white corpuscles "both patients dying early from septicæmia." It was by the lymphatics. Dr. S. Coupland felt much in-debted to Mr. Gostling for his facts, but remarked cision of the intestine when this case presented itself that he had not made the source of the increase of to him. We have little doubt that in this particular white corpuscles quite clear, and that had been felt instance the right line of practice was followed, for by Cohnheim to be the most difficult point. Dr. at the time of the operation the patient's pulse was Douglas Powell inquired how early in the case of iliac only 70, and we are led to infer that there were no abscess Mr. Gostling had begun his observations, local conditions to render such a proceeding particu-He said that it was fifteen days before the abscess larly difficult or dangerous. There appears to have had been opened; but was it before any collection of been just that combination of local and constitutional pus could be proved to exist? That was an important conditions which favors recovery after enterectomy. point, because tension was an important factor in the In one particular the steps of the operation differed reabsorption of pus. Clinical experience did not find from the ordinary course. Instead of excising a Vsuch reabsorption common. Mr. Howard Marsh con-shaped piece of mesentery, this peritoneal fold was mesentery.

wounds may heal.—The Lancet, February 6, 1886.

tied and divided close to and parallel with the bowel. so far, in at least a dozen cases, it has never failed The advantage of this plan is that it does not interfere me in early diagnosis. The obtaining of this sign with the blood-supply to the bowel on either side or requires, of course, a certain expertness in the biimperil its vitality. One of the great dangers attend- manual palpation, and familiarity with the sensation ing the excision of a V-shaped piece of mesentery is communicated to the finger by the nulliparous uterus, the occurrence of gangrene in the bowel left behind. and the uterus altered pathologically in one or another Where the length of bowel to be removed is not great, way. I have found, however, in my clinical teachthe practice pursued by Dr. Stewart is undoubtedly ing, but little difficulty in making even inexpert fingers the best; and where a greater length of bowel has to conscious of the change. In the vast majority of be removed, a combination of the two plans might cases, owing to the normally slight anterior curvature afford the best results, a small V-shaped piece being of the uterus, the internal examining finger will note removed from the central part of the detached this sign to the best advantage in the anterior culde sac. Here the finger, instead of following the line Still more important inquiries are suggested by the of the cervix in a gentle curve up on to the body, is subsequent treatment of the patient. Mr. Banks at once conscious of the body swelling out to a used every precaution to secure prolonged rest to the greater or lesser degree, according to the date of imbowel, giving only ice for four days, then for eight pregnation over the cervix, and at the same time, days more ice and beef-juice, and the bowels were bi-manually, the body is faintly boggy, resilient, comnot relieved until the twenty-third day. Dr. Stewart, pressible. If such be the condition of affairs deon the other hand, gave milk after a few hours, and tected by the local examination, in the absence of quickly added alcoholic stimulants and liquid food in rational history, in the absence of slight softening at "large amounts," while the bowels acted on the sixth the tip of the cervix (which may, if present, mean day. The one case was a man aged 25, the other erosion), and of mammary signs and blue discolora-68; but this by no means sufficiently explains or justition of the vagina (both of which, if present, may fies such a wide divergence in practice. We must mean ovarian disease). I now unhesitatingly proconfess to being strongly of opinion that the plan nounce the patient pregnant. The question arises, carried out by Mr. Banks is the better of the two, for Are there other conditions which may simulate the it alone secures that rest to the injured parts which above sign? There are two which, I can imagine, is so important in securing their speedy and firm might-distended bladder and uterns distended by union, and the prevention of extravasation from the menstrual blood. Neither of these conditions ought, intestine, with subsequent peritonitis. Dr. Stewart's however, to give rise to error, for a necessary prelude patient seems to have been a very troublesome one to a careful bi-manual is evacuation of the bladder to deal with, and all praise is due to the surgeon for by means of the catheter; and retained menstrual the successful issue of the cases, but we believe that blood in the uterus, if not accompanied physically by if the diet had been more rigorously restricted, and imperforate hymen or vagina, would necessarily be stimulants lessened or withheld altogether, the opiates suggested by the history (no ground for falsifying exhibited would have exerted more power in restrain here) before sufficient had collected to give rise to ing the peristaltic action of the intestines. That, in even faint fluctuation. Hyperplasia of the corpus spite of all these adverse circumstances, the stitches uterus cannot simulate this sign, because in this conheld, and no frecal extravasations occurred, is a strik-dition the conjoined touch reveals density; sub-involing testimony to the skill with which the intestinal ution cannot, because here the uterus is increased in suture was made and the rapidity with which peritoneal its longitudinal as well as in its transverse diameters, and conjoined touch, while revealing heaviness and softness, does not reveal resiliency and compressi-HEGAR'S SIGN OF PREGNANCY.-In an article on bility. The markedly anteflexed corpus uteri, hyperthis subject Dr. Egbert H. Grandin, of New York, semic from obstructed circulation, is most likely to says: During the first six or eight weeks of preg-simulate Hégar's sign, but in case of such distortion namey the changes in the uterus are practically the feeling of resiliency and compressibility is also Simited to the body of the organ. The uterine body lacking. In marked retroversion this sign is likely enlarges, especially in its transverse diameter (antero- to fail on account of the difficulty of palpating with enlarges, especially in its transverse diameter (anteroposteriorly); the muscular substance becomes less case the uterine body. Rectal examination might dense. These changes are simply the result of assist here, but as yet I have had no opportunity to the hyperemic condition into which the corpus is the hyperemic condition into which the corpus is the hyperemic condition into which the corpus is seed, for this sign in case of this variety of displace-thrown and kept by the engrating of the impregnated ovum. As the result of such changes, the uterine body loses its nulliparous pear-shape; its contour not longer gradually diminishes as it approaches the uterine neck; the body, on the contrary, bellies out (if I may use the term) over the cervix in all the transverse diameters, in particular, but any other processing the uterine had externally.

transverse diameters, in particular, 2 intero-posteriorly, and the organ, instead of being pear-shaped, resembles very much an all fashioned, fat-bellied jug.

The above changes in the consistency and shape depresses the fundus, is able, to better advantage, to add the consistency and shape depresses the fundus, is able, to better advantage, to add the consistency and shape depresses the fundus, is able, to better advantage, to add the consistency and shape depresses the fundus, is able, to better advantage, to add the consistency and shape depresses the fundus, is able, to better advantage, to add the consistency and shape depresses the fundus, is able, to better advantage, to add the consistency and shape depresses the fundus. body of the uterus constitute Hégar's sign, and explore the lower uterine segment. I fail to see in abdominal method which I practise, aside from my belief that it must be only very exceptionally that once.—New York Med. Jour., February 27, 1886. the thumb can reach the cervix per vaginam while the index is above the insertion of the posterior uterine ligaments per rectum.-Med. Record, Feb. 27.

PERMANGANATE OF POTASH IN AMENORRHŒA .-In an article on this subject Dr. FORDYCE BARKER says: In order more clearly to illustrate my views, I will divide the cases which I have treated with this remedy into three groups, mentioning them in the order of their frequency:

First. Young ladies between the ages of 14 and 19, who come from the country "to finish their education." Home-sickness, entire change of their habits of life and associations, over-tax of their brain-power from their own or their teachers' ambition to accomplish more in a given time than they ought to attempt, not infrequently lead to an arrest of menstruation. I see at least ten or fifteen such patients every winter.

Second. Ladies, both young and married, who suffer severely from seasickness, that have left some European port within a few days of the menstrual period. With such, amenorrhoea, of longer or shorter duration, is almost sure to follow. I am consulted by at least

eight or ten such every year.

Third. Ladies between 30 and 40, generally married, some of whom have borne children, who rapidly begin to gain flesh, grow stout, while at the same time menstruation decreases in both duration and quantity, until at last it is only a mere pretense. This is generally attended with annoying nerve-disturbances, pelvic weight, sometimes hæmorrhoids, and often that the cutaneous cicatrix has been too tender to mental depression from the apprehension of growing bear the pressure of a truss. Accordingly, I have old prematurely.

that every patient was a resident of this city. I pre- guinal). A retractor easily pulls the skin-wound insume that every medical man who has been long in wards. Another advantage of this is, that the wound known the result from personal interviews—that there therefore more readily kept aseptic. To this end, I has been a satisfactory return of menstruation, al- have also carried a drainage-tube from the depth of though in two cases the use of the remedy was con- the wound ontwards through a special puncture a tinued for five months. In all there has been entire couple of inches towards the iliac spine, away from relief of the cerebral and pelvic, and in some of the the wound. The wound itself can then be completethoracic, nerve-disturbances, cardiac and pulmonary. ly closed with both buried and cutaneous sutures. One patient was quite cured of a periodical asthma Another object to be attained by this plan, is that of

where the amenorrhoa is due to some grave consti- freely from the pubic region outwards, under the antutional disease, nor do 1 rely on it for the relief of tiseptic dressings, towards the exact site of the ordisudden suppression, due to cold, moral shock, or an nary incision for femoral hernia. Moreover, a peracute disease. In this class I think the pulsatilla, pendicular incision in this place always tends to gape, opiates, and local agents, such as fomentations and and opens widely if the sutures yield before union large hot rectal enemas, are generally successful.

getting the permanganate put up by apothecaries in all events only approaching it towards its outer end. such a way that patients could take it without great repugnance, and it often produced severe gastric January (1886), Mr. Rushton Parker is reported to pain, from its rapid decomposition. Mr. Angelo for have said "that he made the incision in operations a time put it up for me in a peculiar capsule, which for hernia as far away as possible from the penis and did better than anything else, so far as the taste was rectum. In inguinal hernia, he made the opening concerned, and the pain was prevented by swallowing directly over the abdominal ring."—British Medical immediately a half-tumblerful of water, not cold. Journal, Feb. 20, 1886.

what respect this manœuvre is superior to the vagino- Lately I have found two-grain tablets do quite as well, if the same quantity of water is swallowed at

> INFLUENCE OF MILK-DIET ON THE EXCRETION OF ALBUMEN IN CHRONIC NEPHRITIS-In view of the fact that milk-diet had been emphatically recommended by many observers (Senator, Sparks and Bruce, etc.), Dr. A. S. TRUBATCHEFF (Vratch, No. 46, 1885, p. 763) undertook a series of comparative observations on four patients with chronic nephritis (three with the parenchymatous, one with the interstitial form), each of whom received ordinary hospital diet during one period, and either mixed or pure milk-diet during a subsequent period of equal duration. The results were as follows: 1. An exclusive milk-diet invariably led to a marked increase of the daily and percentage amount of albumen in the urine. 2. The patient's weight fell considerably, without any marked change in his dropsical state. 3. A mixed milk-diet also led, in the majority of the cases, to an increase in the daily and percentage amount of the albumen excreted. 4. Neither pure nor mixed milk diet produced any marked increase in the amount of urine. The author now studies the assimilation of protein by nephritic patients receiving milk-diet, which study will enable him to settle the question of "good or harm" of the treatment.-The London Medical Record, February 15, 1886.

THE SKIN INCISION IN HERNIOTOMY.—MR. C. B. KEETLEY, in a note on this subject, says: It has often happened to me to be obliged to prolong the stay in bed of a herniotomy case, for no other reason than laterally incised the superficial structure at some dis-I will add, in regard to the third class in my group, tance external to the ring (whether femoral or infrom which she had suffered monthly for three years. avoiding the fold of the groin. This, in fat people, Of course, I never prescribe this agent in cases is simply a kind of transverse gutter, which conducts has taken place. In such patients, the incision should In my early experience I found great difficulty in be an oblique one, almost parallel with this fold, at

In the Liverpool Medico-Chirurgical Journal for

THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, No. 65 RANDOLPH STREET,

CHICAGO, ILLINOIS,

# SATURDAY, MARCH 13, 1886.

# GERMAIN SEE ON THE TREATMENT OF OBESITY.

history of a case of obesity treated by massage.

of the respiratory muscles, and especially to the loss composed. 3. From fat itself. of energy of the heart-muscle. At the first signs of Sée takes issue with those, from Pliny to Oertel,

ed. In fine, the medical treatment of cardiac steatosis consists only in combating the functional troubles of the respiration and the circulation.

How may we reduce superabundant fat, especially in those cases in which the heart is infiltrated with fat? Evidently, by the laws of experimental and practical physiology. Physiologists are agreed regarding the "ration of equilibrium," to cover the deficits resulting from continued malassimilation, either during rest or work, or from losses by heat or cold. 'This "ration of equilibrium" is composed of 125 to 135 grammes of albuminous or nitrogenous matter; that is to say, muscular flesh containing 250 to 300 grammes of meat deprived of fat and tendinous parts. A part of this may be substituted for by eggalbumen or by fish: in bread we find gluten (6 parts in 100), caseine in milk (4 to 100), and leguminose in certain vegetables (10 to 100); these are the nitrogenous principles which may make up the necessary and indispensable quantity of nitrogen. In addition to the nitrogenous principles there should At the meetings of the Académie de Médecine on be 84 or 100 grammes of fatty matters, the principal September 29 and October 13, 1885, Professor Ger-combustibles of the economy. Then there should be MAIN SEE read an elaborate paper on "The Causes from 250 to 300 grammes of hydrocarbons, starch or and Physiological Treatment of Obesity; the Thera-sugar, without taking into account the water necespeutics of Fatty Transformations of the Heart," in sary to aid in the organic changes, and the mineral which his own ideas are clearly set forth, and the elements which enter into the composition of all the methods and opinions of other writersably discussed. liquids and tissues, and the necessary amount of oxy-We have already given, in The JOURNAL of October gen. If this be the "ration of equilibrium" it is 24 and 31, 1885, the methods used by Oertel and J. necessary to ask, What are the foods that produce Munck, and our London letter, in the issue of De- obesity? When the quantity of nutriment exceeds cember 12, contained a note on the use of tauro the necessity obesity may supervene. All foods may cholate of soda in the treatment of gouty obesity, as become adipogenous, not even excepting the meats used by Dr. Mortimer Granville. And in The Jour- and albuminous matter, as they may split up and NAL of July 18, 1885, Dr. Benjamin Lee gave the form fat; and the other constituents of the "ration of equilibrium" may be easily transformed into neu-The first indication of fatty infiltration of the heart-tral fats and cause obesity. It may be said, then, muscle, says Sée, is habitual dyspncea, due to general that there are three sources of fat: 1. Albuminates muscular feebleness, which incapacitates the patient being split up into fat and nitrogenous matters. 2. for any effort, to diminution of the contractile force Hydrocarbons taken in certain quantity, easily de-

fatty invasion of the heart the physician should com- who reduce the quantity of fluid ingesta to a minimence treatment. Everything which tends to dimin mum in the treatment of obesity, claiming that it is ish fat tends to increase the motor powers; and not only inhuman but unphysiological and inapplieverything that augments the contractility of the cable to the treatment of the cases under considervoluntary muscles will at the same time awaken the ation. Jürgensen, he says, put himself on a minimum action of the respiratory and cardiac muscles. The fluid diet, and his temperature went up to 40 C., fundamental indication, then, is the reduction of fat; and "Zuntz asks, with reason, how a dry diet can consisting more particularly in a special régime, in cause emaciation; it is proved, on the contrary, that the determination of the quantity and quality of the by the use of fluids the organism loses vapor of water, fluid ingesta, and in muscular exercise; perhaps, also, and also loses more heat, which causes combustion certain balneo-therapeutic procedures should be add- of fat." All the cases of obesity which he has treated have been cured by the albumino fatty régime, and cases, in view of the fact that anorexia and dyspepsia few minutes. It enters the circulation from the in- make a large choice. testines, but it does not stay there, nor does it ever We have already said that Sée has used the albu-

organs of man; and it is not very uncommon to see is the first to disappear, and that the subcutaneous

so far from being put on a restricted fluid diet they are so frequently caused by it. Since the experihave had more fluid than usual; particularly aromatic ments of Chevreul, in 1825, and of Mialhe and Liecold drinks, such as tea in the morning, and slightly big, in 1850, the alkaline carbonates have been alcoholized cold drinks at dinner. "Digestion is thought to be oxydants of great power, but it has thus aided, and not interfered with, as was stated at been shown by Munck, Séverin, and Seegen that the German Congress at Wiesbaden. The fat, so they cause decrease in the amount of urea eliminated. rebellious to the stomach, is precipitated into the in- But Scheremeljewski, in order to show the action of testine, where it is emulsified, while the albuminates alkaline waters on the combustion of fat, injected are peptonized. But this is not all; if water favor lactate of soda into a rabbit: he found that it caused digestion it also hastens denutrition." Sée bases this a slightly increased elimination of carbonic acid and assertion on the experiments of Falk, Bischoff, Fos- a more marked absorption of oxygen. It should be ter, Genth and others on the elimination of urea remembered, however, that lactate of soda itself may, after the ingestion of certain quantities of water. by a transformation into carbonate of soda, produce Water, then, he says, is not only an eliminator of pre- a slight excess in the amount of carbonic acid exexisting urea, but a means of increasing denutrition; haled and oxygen absorbed; and there is nothing to and diminution of the amount of fluid taken has no show that carbonic acid is due to the combustion of raison d'être. He claims that water, especially when fat. We only know, then, that the alkaline waters cold and aromatized, has the advantage of precipi- are useful, but we do not know why; and so long as tating the alimentary mass into the intestine, where clinical experience shows that they are we should use peptonization, emulsion and transformation are facil- them, with suppression of alcoholic fluids, of starches, itated; but it is to be noted that the temperature of reduction of food, aided by muscular exercise and the water plays a considerable part. It was supposed oxygenation by living in the open air as much as for a long time that water was principally absorbed possible. With regard to the purgative waters, it is by the mucous membrane of the stomach, but that only necessary to say that they seem to be superior this was an error was shown by Béclard. He showed to the purely alkaline waters. We need not mention that fresh water, taken when the stomach is empty, the purgative waters of Europe, as this country is soon goes into the intestine-that is to say, within a sufficiently rich in those waters to enable one to

cause serous plethora or hydramia, as was shown by mino-fatty regimen in al the cases of obesity treated Denis, Magendie and Nasse. But with regard to the by him. This is a modification of the system of Ebdifferences of opinion as to the part played by fluids stein, which allows 60, 80, or even 100 grammes of in the causation and treatment of obesity, we shall fat, butter or lard, a day. Sée adds gelatinous mathave something to say in the next issue of THE ter and gives a large quantity of fluid. Fatty matter JOURNAL, as Oertel has brought an immense mass of of which the fat-cells are not imprisoned in a too fact and experimentation to bear on this question. solid connective tissue is easily digested, and Ebstein In regard to the medical treatment of obesity Sée has even cured cases of dyspepsia with the above dismisses the venesection of the sixteenth century named quantity of butter or lard (his own case among with the remark that blood-letting tends to produce tothers). Ebstein says that fat diminishes the hunger amenia and deposition of fat, as has been shown by and thirst, and limits the quantity of solid and liquid Vulpian and Dechambre. The true medicinal treat-nourishment. Sée replies that it undoubtedly lessens ment consists, he says, in the administration of the sensation of hunger and thirst; but he thinks that iodides, alkalines, and purgatives. It is to be re- the use of fat enables the organism to take up the marked that the conjoined administration of iodine alubminates more completely, without which they are and alkalines is very favorable to iodism and to great taken in excessive quantities; and this is a most effiemaciation. In large doses, kept up for some time, cacious means of economizing, as has been shown by we know that it acts unfavorably on the lymphatic, Voit. It has been shown by Unna that on the thyroid and mammary glands, and on the genital albumino-fatty diet the fat of the heart and muscles the menstrual functions accentuated when the female fat disappears afterwards. Rubner has shown that is under the influence of iodine. lodine, however, 100 grammes of fat are equal, from a dynamic point is a drug to be used with extreme caution in these of view, to 211 of albumen, 232 of starch, and 256

of grape sugar; or, may we say, to about 2.40 of hydro- on account of the great number of emigrants conmatters without transforming them into fat.

action to secure a good sanitary condition of the would be no reason to apprehend the introduction territory under its jurisdiction in case cholera should of cholera or any other foreign pestilence." be introduced, and the inspection was ordered to sup- In regard to the possibilities of present coast deplement that action. "In the present epoch of fenses, which he thinks should be under the control quarantine," says the report, "Illinois has a direct in- of the National Government, Dr. Rauch says: terest—chiefly commercial—in the exclusion of yellow "Nevertheless, I am more convinced, since comfever from the Mississippi Valley; in the exclusion of pleting this inspection, that Asiatic cholera, as well vaccinally-unprotected immigrants at the North At- as small-pox and yellow fever, may be effectually exlantic ports for the protection of her own territory cluded from the United States by an intelligent use from small-pox; and in the exclusion of Asiatic chol- of the agencies at our command. . . . A quarantine era generally, whether it threatens by direct importa- of exclusion of these three diseases is now a matter tion from Europe or mediately through the West of certainty, depending upon prompt notification of Indies, Mexico and South America. In brief, the threatened danger; vigilant supervision over com-State is concerned in the condition of the sanitary mercial intercourse with infected localities; inspeccoast defenses from the mouth of the St. Lawrence tion of all immigrants and the enforcement of their to the mouth of the Rio Grande." If the other vaccinal protection; sanitation and purification of in-States in the Union could be persuaded that they are fected vessels and cargoes; isolation of those sick as much interested in keeping out infectious and con- with these diseases; the surveillance of suspects durtagious diseases as Illinois the health organization of ing the periods of incubation; and the employment the country would certainly be much more perfect. of other well-defined preventive and precautionary

the prospects for keeping cholera from the country, tary practice as applied to maritime quarantine." Dr. Rauch reminds us that this country is not yet free He well points out the different conditions which obfrom danger of invasion because there is a temporary tain in this country and in Europe regarding the encessation of the disease in Europe. The country is forcement of quarantine measures. "There, cordons in danger as long as there is any cholera in Europe, and quarantines mean privation, misery and suffering,

carbons. Ebstein's regimen is applicable, says Sée, stantly coming here; and the danger will be increased to cases of cardiac obesity, on condition that it is when the disease reaches the British Islands and those modified according to the precepts laid down, and portions of the Continent whence we derive the especially when gelatines and peptones are added, heaviest portion of our emigration. Even if we canwithout any diminution in the fluids. Gelatine, gel- not shut out the cholera entirely it will be a great atinous broths and peptones contribute to the sup- achievement for sanitary science if its invasion can port of the forces, and economize the albuminous be postponed and its spread limited, or if we can prevent its obtaining a foot-hold here. Our quarantine services are as yet imperfect, but they have re-"COAST DEFENSES AGAINST ASIATIC CHOLERA." ceived a great stimulus since 1878, and especially We have recently received from DR. John H. during the past two years; and, imperfect as they, are RAUCH, Secretary of the Illinois State Board of they give promise of no little success with cholera, Health, his "Report of an Inspection of the Atlantic judging from the manner in which they have been and Gulf Quarantines between the St. Lawrence and tested in small-pox and yellow fever. "With a suffi-Rio Grande," the result of instructions given to him cient number of National refuge stations, (there at the July, 1885, meeting of the State Board of should be at least one on the Texas coast and one Health to "inspect the methods of quarantine of the for New England, in addition to those on the Dela-Louisiana State Board of Health and their actual op- ware Bay, Hampton Roads, and Sapelo Sound, and eration at the stations below New Orleans; and also all of them should be as fully equipped as that at to extend his inspection of quarantine methods and Ship Island,) with properly appointed quarantine regulations to such other ports and places as he may establishments at the larger ports, and inspection stadeem necessary in the interests of the public health tions at the smaller ones, the entire system to be of the State, with especial reference to the exclusion mutually cooperative, governed by the same general of Asiatic cholera and small-pox." The Illinois State rules and regulations, kept fully informed of public Board of Health, on receipt of the first information health conditions abroad by consular agents and inthat cholera had again invaded Europe, had taken telligent medical inspectors when necessary, there

In regard to the present status of quarantine and measures which now constitute the best modern sani-

and, ultimately, starvation. Here, the Nation could for disinfecting cargoes or clothing. The quarantine exist unaffected in all her material interests by a season at Baltimore extends from May 1 to October quarantine whose period of detention is limited to 1. "No attention is paid to the vaccinal protection the time necessary to destroy contagion through the of immigrants, unless small-pox is discovered on a rapid processes of modern disinfection and sanitation." vessel, and owing to this neglect repeated introduc-

with an account of the location of quarantine sta- through this port. . . . There are no facilities regulations, methods, etc., from Canada to Texas; cargo from an infected vessel;" and Dr. Rauch sugthe subject, and from which it is easy to form com- requiring vessels to submit to inspection by the parisons and to obtain information regarding the Government service at Cape Charles. The quaranstations and the quarantine regulations of the differ- tine facilities of Wilmington, the only important quarent States. In view of the fact that cholera was in- antine port of North Carolina, are inadequate, and troduced into this country via the St. Lawrence river the means of disinfection primitive. "The quaranin 1832, Dr. Rauch makes a number of valuable suggestions in regard to the quarantine station at Grosse Island, 29 miles below Quebec, which would render the service more efficient and be in the interests of commerce. Regarding the service at Boston he says: "The access of cholera is hardly likely to occur. During this period (nineteen years) I have been able to trace small-pox cases to Boston very rarely, and none for several years recently. The mothods pursued at this port demonstrate that the disease may be excluded." The quarantine facilities of New Haven, the most important port of Connecticut, are described as not entirely satisfactory. With reference to the exclusion of cholera and small-pox from the port of New York he says: "With proper vigilance, the service should suffice to prevent either of these diseases from obtaining access to the country through this avenue. But the entire system is hampered by a vicious financial policy which is, in effect, a farmingout of the service. . . . New York may exclude cholera under her present systems, but more confidence would be reposed in the result if less were demanded of professional ability, personal integrity and executive firmness in the health officer, and if the system were freed from influences which are most destand them."

In the quarantine of Philadelphia, the only port of change in the equipments or methods since 1818. . .

. . . There are none of the modern appliances some other places. for disinfection of vessels or cargo. No attention is paid to the vaccinal status of immigrants unless smallpox is discovered on a vessel; and, as a natural consequence, the disease has frequently been introduced several States and Territories of the Union, that into the interior through this port." At the U. S. have adopted the National Code of Ethics, and con-Quarantine Station at Delaware Breakwater, there is sequently entitled to send delegates to the American no serviceable inspection boat, and no arrangements Medical Association, actual Branches of the National

By far the greater part of the report is taken up tions of the disease into the interior have occurred tions, their equipment, powers and authority, rules as yet provided for the discharge and disinfection of most convenient information for those interested in gests, in the present emergency, the advisability of tine hospital was burned two years ago, and the State has not rebuilt it." Dr. J. T. McFarland, Health Officer of Savannah, says: "I cannot refrain from an expression of condemnation and protest against the unreliability of the ordinary bills of health issued by some consuls of the United States. . . . . It is a frequent occurrence that clean bills of health are issued by them at ports where deadly epidemic diseases are prevailing. . . . I know positively that steamships, from districts of Spain affected terribly with cholera, have been admitted into one of the largest ports of the United States, during this season, without the slightest attempt at fumigation of the clothing of the seamen, or cleansing of vessels, the statement being made to me in official correspondence, that as no sickness had occurred during the voyage, it was deemed unnecessary to use any precautions, and that this would be the line of action pursued in the future at that port." Dr. Rauch also calls attention to the worthlessness of most consular bills of health.

Taken altogether, this Report, of 31 pages, contains a very large amount of important information, and should certainly be in the hands of every health officer in the country. Dr. Joseph Holt's description precated by those who, without prejudice, best under- of the manner in which disinfection is carried out at Pas a L'Outre, should be studied by all quarantine officers. His report and that of Dr. Swearingen, of Pennsylvania, "there has been practically little Texas, are very complete. It is to be regretted that no information could be obtained from Key West and

# WHAT'S IN A NAME?

Are not all the State and local Societies in the

WHAT'S IN A NAME?

organization? In the two preceding issues we have both the numerical strength and income of the latter, Societies; the whole governed by one Code of Med- Member of the American Medical Association by ical Ethics, and the governing power in all the State simply sending a certificate of his membership and annually elected on a uniform ratio representation. with the amount of the annual dues, five dollars, to tion of the principles in the original plan adopted, by this provision of the constitution every local or and the subsequent correction of these by successive State Society entitled to representation in the Ameralterations or amendments as experience demon- ican Association can make its entire membership strated their existence, and the steady progress of the Permanent Members of that Association whenever it organization until, at the present time, it pervades chooses, and they will retain such membership so every State and inhabited Territory in our country. long as they pay the annual dues and remain in good

tained by delegates from the county and district privileges that belong to Permanent Members consocieties, and the National Association by delegates stituted in any other way. It is doubtful whether a from the State Societies and such county and district more simple or practicable method could be devised societies as are recognized by representation in their for increasing the permanent membership of the respective State Societies; thus making the State and National Association than this. It leaves the matter local societies not only Branches in the true sense of to the voluntary choice of every member of the the word, but Branches without which the National regular profession who is willing to sustain the local Organization, as the head, would have no existence. medical organizations of his own State, to become a True, we have been calling them, affiliated societies member of the National Association without the exinstead of calling them Branches after the British pense and loss of time incurred by attending its custom. Indeed, the relation between our State and annual meetings. local societies affiliated by a uniform ratio of dele- We think the appointment of a judicious commitbody, and to elect one member of the governing generally. Council, each Branch or affiliated society of the American Medical Association is permitted to regu-

bers of the parent Association, and thereby increase Chevalier of the Legion of Honor in 1876.

endeavored to explain the principle on which the the same result would be reached by making all American Medical Association was founded, its members of the Branches of the American Associacapability, when properly applied, of developing a tion also members of the latter body. The fact seems complete organization of the regular profession in not yet generally known, as we infer from the statethe United States, from city, county, and district ments of some of our correspondents, that by the societies to State Societies in each State, and from amendment of the constitution of the American Medthe State Societies to the National Association as the ical Association, proposed in 1882 and finally adopted general head. The State Societies were formed by in 1884, any member of a State, county, district, or delegates from the more local organizations, and the other local society in affiliation with the general or-National Association by delegates from the State ganization can, at any time, become a Permanent and National Organizations consists of delegates good standing in the society to which he belongs, We pointed out some imperfections in the applicathe Treasurer of the National Association. Indeed, With few exceptions the State Societies are sus-standing in the profession, and will enjoy all the

gates, with the American Medical Association, is tee to report on the subject, as suggested by much closer and more important than is the relation "Branch," in his last letter, in THE JOURNAL of between the British Association and its Branches. March 6, would be desirable and productive of good, While each Branch of the British Association is al- if for no other reason than that it would make the lowed to regulate its own affairs so long as it makes actual provisions of the constitution of the National no regulation conflicting with the laws of the parent Association better understood by the profession

DEATH OF DR. WILLIAM E. JOHNSTON.—Our late its own affairs, subject only to the National Code foreign mails bring the news of the death of this wellof Medical Ethics; and instead of electing one mem-known American physician, who died in Paris, where ber of the governing council it elects one delegate to he had lived for twenty years, on February 1.4. He the parent Association for every ten of its regular went to Europe at the close of the Civil War, and in members, who constitute a part of the governing 1866 obtained permission to practice medicine on his American degree. He was officially attached to the But it is claimed that inasmuch as all members of American Legation in Paris, and rendered great serthe Branches of the British Association are also mem- vice during the siege of Paris, for which he was made

# SOCIETY PROCEEDINGS.

# CHICAGO MEDICAL SOCIETY.

Stated Meeting, March 1st, 1886.

THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR. Dr. P. C. Jensen read the first paper of the evening, entitled

DIGESTION AND DYSPEPSIA.

The author entered into an elaborate discussion of the physiological processes of digestion, the departure from normal, and the treatment of gastritis, ulcer of stomach and atonic and nervous dyspepsia. Owing to the length of the paper the author was obliged to omit a large portion it.

Dr. J. Frank thought that in the diagnosis of stomach disease pain under the left shoulder would not be a pathognomonic sign in case any cardiac trouble co-existed. It is well known that patients with cardiac disease complain of pain under the left shoulder. He had found that the majority of cases of dyspepsia are due to dilatation of the stomach

and diseases of the pancreas.

Dr. C. C. P. Silva spoke of the omission, among the cases enumerated by the paper, of that common form of indigestion due to the excessive use of tea or coffee, especially when the tea or coffee has been boiled for a long time and drank after all the aromatic principles have been evaporated and there is left only the tannic acid, which precipitates pepsin. This is one of the most frequent causes of indigestion with ladies who abstain from cooking much and use only tea which is not freshly made, with bread and butter, taking such a lunch frequently.

Dr. Jensen, in concluding the discussion, said that he had found that in dyspeptic, as well as heart troubles, there is pain under the left shoulder. It is a symptom of dyspepsia when other affections can A CASE OF RUPTURED OVARIAN CYST, WITH SPECIMENS. be excluded. As to dilatation of the stomach, it is often a cause of dyspepsia, and he had found it especially prevalent with beer drinkers who drink beer in large quantities, ten to twenty glasses a day. As to disease of the pancreas being a cause of dyspepsia, it is a very obscure organ and it is difficult to diagnosticate disease in it. In regard to long-drawn tea and coffee being an influential factor in the production of dyspepsia, he had observed that drinking too much liquid of any kind with the food has a very deleterious effect upon the digestion; reducing the quality of the gastric secretion, and thereby hindering the proper digestion of the food.

Dr. J. H. Etheridge read a report of

TWO UNIQUE CASES OF VESICO-VAGINAL FISTULA.

In the first case the bladder appeared to be torn across from side to side about 11/2 inches from the meatus urinarius, and the "flap" thus liberated was hermetically sealed to the posterior wall of the vagina. The cervix uteri was completely surrounded with adventitious connective tissue, in whose meshes factory examination was made. was retained menstrual fluid.

used, and twelve hours later delivery was allowed to be spontaneously accomplished, the most extraordinary results ensued. The right ovary and uterus had completely disappeared by sloughing. The left

ovary remained.

THE PRESIDENT said he thought it a well-established fact that there is a possibility of an accidental expulsion of the uterus and its appendages occurring in connection with labor. During the past year there has been quite a discussion on the question of whether it is possible for such a thing to happen, and so far as the extract published in the British Medical Journal goes, it seems to prove that cases do occur in which, as far as we know, no interference with forceps or otherwise was made, and yet there was extrusion of the uterus and its appendages, and sufficient constriction thereof to produce sloughing and entire loss of these organs.

Dr. F. M. Weller remembered a case in which rupture of the bladder into the vagina occurred, and the only cause to be observed was some gravel-stones found in the bladder. He had no doubt that they

were the result of vesico-vaginal fistula.

DR. R. TILLEY inquired if he had asked the physicians who attended these cases if forceps were

Dr. Etheridge knew nothing of the antecedent histories of these patients. The first was a Bohemian woman who spoke German indifferently, and it was difficult to get her history. The second patient was an American-born girl, and she gave a pretty succinct history of her experience. She was in labor forty-eight hours, consultation being called at the end of thirty-six. Instruments were tried but failed to deliver her, and the physicians gave it up and went home. Finally pains came on and expulsion of the pelvic contents took place.

DR. H. P. NEWMAN read a report of

Mary H., unmarried; occupation, housework; age, 25; Norwegian. Since her first menstruation at 13 years of age the menses have been regular but scanty, accompanied by severe pain, necessitating her lying in bed the first day of each period. After coming to this country, four years ago, she seemed to suffer less in this respect, and while not strong, enjoyed a fair degree of health. In September of last year she had a mild attack of typhoid fever, convalescing at the end of the second week. During October she gained rapidly in flesh, and experienced less pain than usual at the menstrual molimen, as he afterward learned. In the second week of November following she was taken ill with peritonitis. It was during this attack, which was of several weeks' duration in the subacute and localized form, that his attention was first called to any abnormal condition of the pelvic organs. The tenderness of the abdomen and pelvic viscera rendered a thorough exploration impossible, and it was not until January that a satis-

The patient first came to his office January 25th, In the second case, following a very protracted, when he found a tumor extending upward and a little severe labor, wherein the forceps had been fruitlessly to the right of the median line, from the lesser pelvic basin to midway between umbilicus and symphisis the doctor concurring with me in urging an immediexamined the growth was pronounced a probable the peritoneal sac was opened there poured forth cyst of the right ovary, and the patient so advised. To any operative procedure the patient demurred, been washed away, the tumor was readily recognized case of further trouble.

evening, while reading a letter, still sitting up in bed, tube, was accomplished. The pedicle was tied with she suddenly cried out that something had broken waxed silk, the ligature cut short and left within the suffering no particular pain. He was not called un- with antiseptic dressings. til late at night, twenty-four hours after the accident related. He found a rapid, feeble pulse of 140, skin viously to the operation, and hypodermic injections moist, extremities cool, temperature 99° F., bowels of brandy toward its completion, within the next hour tympanitic, but no pain, and little tenderness. She the woman's pulse became hardly perceptible at the had passed no urine since the preceding night, and wrist, and her immediate condition critical in the exhardly a tablespoonful of dark fluid could be obtained treme. After the use of further injections of whiskey by the catheter. A digital and bimanual examina- and ammonia, and the application of bottles of hot tion revealed little or no change in the consistency water to the extremities, the patient rallied slightly and general outline of the tumor, as far as could be and recognized those about her. From nine o'clock ascertained through the distended abdomen.

friends, and an exploratory operation insisted upon morning by Dr. Strong and the writer. Though as the only hope. As immediate consent could not covered with recent exudations of lymph, the peribe obtained he advised a consultation. He there-toneal surfaces were of a better color, nor had bleed. fore met Dr. A. B. Strong at ten o'clock that morning occurred from any of the points of detachment. ing. Through the stimulants which had been freely administered during the night the condition of the moid cyst, its purulent contents, about a pint and a woman remained much the same. Suppression of half, resembling very much the fluid found in the the urine was still a marked symptom, abdominal pelvic cavity. It also contained a mass of fatty subtympanitis somewhat increased, temperature normal, stance bound together with a quantity of hair. The possibility of ruptured pelvic abcess, or intesti-right fallopian tube here attached, was uniformly en-

pubis, and corresponding in size and general outline ate operation. As soon as arrangements could be to the gravid uterus at the fourth month. Further made the patient was etherized and placed upon a investigation revealed fluctuation in the tumor, also table. He requested Dr. Strong to perform the that it was detached from the uterus; the latter be-operation. The incision through the abdominal wall ing crowded to the left and back into the hollow of was about three inches in length, midway between the sacrum. Although the fluid contents were not umbilicus and pubis in the median line. As soon as but promised to consider the matter and report at filling the entire hypogastrium, its peritoneal surface his office the following week. Nothing was heard engoged and discolored by the existing inflammation. from her until February 3d, ten days later, when he Owing to the extensive adhesions, it became neceswas called to her house at about 6 P.M. He found sary to carry the original incision upward and through the patient up, but complaining of pain and soreness the umbilicus to a point two inches beyond, and of the abdomen, which was slightly tympanitic. downward to the symphisis. The fundus of the tumor Temperature 99<sup>1/2</sup>, pulse slightly accelerated. With was firmly attached along the under surface of the the use of an opiate and hot fomentations, the fol- mesentery, making it necessary to ligate before relowing morning he found her free from pain, with moval; and, on closer inspection a recently torn adless tenderness over the abdomen, and no tympani- hesion was observed, exposing a minute opening in tis. Pulse and temperature normal. He enjoined the thinned wall of the sac, through which was oozrest in bed, and directed that he should be called in ing the purulent contents. In this connection it should be said that since her former attack of peri-On the night of February 6th he was summoned tonitis, the patient had complained of increasing pain by the message that the patient was very low, and on resuming the recumbent posture, a fact now easnot expected to live through the night. He found ily accounted for by the extent and nature of the adthe patient at 11 P.M. bolstered up in a chair, in a hesions, which must have been thereby put upon the crouching attitude, with the thighs flexed upon the stretch. It is also probable that while sitting up in abdomen. The countenance bore such a pinched bed, movements of the body or abdominal viscera toand anxious expression as gave striking evidence of gether with the softening of adhesions by recent ingrave peril. He was informed that following his flammation, had produced the rupture here found. visit on Thursday the patient had grown quite com- and so perceptible to the patient. The complete fortable and free from pain, and contrary to his in- separation of the remaining adhesions, and the restructions sat up a large share of Friday. In the moval of its growth with the right ovary and fallopian inside the abdomen. She suffered great distress, and pelvic cavity. All torn surfaces inclined to bleed was very much prostrated until 2 o'clock A.M., when were cauterized with a hot iron. The peritoneal she became more quiet. From this time she grew cavity was washed out with hot water, dried with weaker, and had a very "bad feeling," as she de-clean sponges, the wound closed, leaving a drainage scribed it, vomiting at intervals during the day, but tube in its lower angle, and the abdomen covered

Notwithstanding the free use of stimulants prein the evening, however, she gradually sank, and died The gravity of the situation was explained to the at eleven P.M. The abdomen was opened the next

nal perforation from feecal impaction, was considered, larged and held a number of drops of pus. The left

ovary, which was removed post mortem, also contained a few small cysts. The uterus was normal color was accounted for.

both in size and appearance. tween the temperature noted and the extreme inflam- was a light mahogany color, but was not such a color matory changes in the peritoneal cavity; second, the as is found in a strangulated gut. difficulty in differentiating between rupture of this al arguments in favor of early operation.

ally supposed by the profession that peritonitis is al- which would lead him to suppose that peritonitis is ways by an elevation of temperature as indicated by present, thus causing him to erroneously rule out the the thermometer. He had recently seen a case in possibility of there being peritonitis. which a large quantity of pus was removed by section from the abdomen of a boy, in which the thermometer did not indicate any rise of temperature. These two cases seem to show that in purulent peritonitis the temperature is not always a practical aid in diag-

nosis, unless in a negative way.

of the symptoms reported that this was a case of twisted pedicle, and that the rupture was caused by the twisting of the pedicle, which is quite often the this case, intending at the time to have only one result of the subsequent distension of the cyst walls; made for his own use. The case itself contains a if it is weak at any point it ruptures. Darkness in pamphlet concerning poisons and their antidotes, a color is one noticeable change found in twisted pedicle, and if this was not a case of twisting, there was monia carbonate, nitrate of amyl, apomorphia, sulgreat resemblance in the symptoms and those of cases he had seen, viz., rapid distension of the abdomen, increased temperature, symptoms of peritonitis, and suppression of urine. In case the ruptured cyst was dependent upon twisted pedicle it might account for the separation of the adhesion, which was found. The mere fact of the movement of the body which was advised against might have precipitated a turn of the and digitaline have been made up in compressed tumor upon itself, which led to the rupture by a dif- tablets and combined with soda so that they can be fusion of blood. He thought it a very interesting given hypodermically. case and one calling attention to the necessity of insisting upon early interference in all cases where there is a supposed tumor of the abdomen, accompanied by the symptoms mentioned. And where the operation is done early there is very little difference in the fatality as compared with the operation done without peritonitis being present.

Dr. NEWMAN said, in conclusion, that he did not think twisted pedicle was present in this case. adhesions of the upper part and sides of the tumor, were of such a nature that there could be but slight twisting of the base on the pedicle, and if it had occurred as a factor in separating the adhesions it must have returned to its normal position again, for the tumor when found, occupied its usual position.

Dr. Strong said he was sure the pedicle was not twisted. There were two points of attachment to the tumor, one adhering to the base of the mesentery on the right side, the other to the sigmoid flexure, both old adhesions, and the points of attachment so located that it would be impossible for the pedicle to which he obtained through favor from Frazer & Co., be twisted.

THE PRESIDENT wished to know how the dark

Dr. Strong said that it looked at first very much The points of interest are: first, the disparity be-like a uterine tumor, being thick and vascular. It

Dr. J. H. ETHERIDGE said, in reference to the lack cyst, and a possible pelvic abscess; also the resem- of correspondence between the temperature as indiblance of the symptoms to those observed in a case cated by the thermometer, and a high degree of inof twisted pedicle, as reported to the society by our flammation, that the temperature will often be found President, Dr. Parkes, at a recent meeting; and third, in cases of peritonitis to be sub-normal. In cases the liability of rupture of ovarian cysts even of small of gonorrhoea in the female, complicated by pelvic size, where inflammation occurs, constitutes addition-peritonitis, physicians are often misled by the fact that the inflammation which produces great pain in Dr. A. B. Strong said he believed it was gener- the abdomen is not accompanied by a temperature

Dr. G, W. Webster exhibited a convenient

CASE OF ANTIDOTES FOR POISONS, WITH STOMACH

He said that in his limited experience in the treatment of patients who had taken poison either acci-THE PRESIDENT was inclined to think from some dentally or otherwise, he had often found it difficult to procure the proper antidotes quickly enough and in a suitable form. It was this that led him to devise stomach tube, and the following drugs: ether, amphate of atropia, brandy, camphor, animal charcoal, chloral hydrate, chloroform, digitaline, dialyzed iron, sulphate of iron, tr. of chloride of iron, mucilage, calcined magnesia, sulphate of morphia, iodide of potassium, liquor potassæ, acetate of strychnia, chloride of sodium, sulphuric acid, tannic acid, sulphate of zinc. The atropia, morphia, apomorphia, strychnia

Dr. I. Frank exhibited a specimen of

# DEGENERATED RIGHT KIDNEY,

with a brief history of the case. Thirteen weeks ago, lithotrity was attempted on a man sixty-nine years old. The lithotrite broke, and the next day lithotomy was performed. The patient did well for about three weeks when he seemed to fail again, and pus appeared in the urine. Then he got better, and the pus disappeared. But a relapse came and he died. During the time he was voiding pus, Dr. Frank had made microscopic examinations to find casts, but was unsuccessful. There was total degeneration of the medulary substance of the kidney exhibited, while the other one was full of renal calculi.

THE PRESIDENT remarked that the degeneration of the kidney was so great that tube cast formation would be impossible.

DR. R. TILLEY exhibited a sample of

# LANOLIN

of New York. He said lanolin has lately been brought

prominently before the medical public by the re-low in the pelvis and apparently not surrounded with searches of Prof. Oscar Liebreich, of Berlin, and its any liquor amnii. The os uteri was neither soft nor clinical applications by Liebreich and others. The dilated. She was ordered anodynes and to remain substance exhibited, you will observe, is of a yellow- in bed. On the 7th of November I again saw her. ish brown color, and of a plastic consistency. The and found she had been having more or less pains upper layer is darker than that immediately beneath. since my previous visit. There was no dilatation. Its odor is slight, but *sui generis*. Liebreich says it Two days after, however, she was delivered, her gesshould smell like wool. It is found in practically all tation having lasted about two hundred days. the keratine tissues of the animal economy, but the child lived about one hour. She made a good recommercial article is undoubtedly obtained from covery and resumed her place in her family in the wool. The sample he supposed to be a mixture of course of two weeks. equal parts of pure landlin and water. Liebreich Case 2.—Mrs. M., 27 years old; in her ninth pregcalls it a cholesterin fat, that is, a substance compos-ed of fatty acid and cholesterin. The more common-to have a flow of fluid which continued until the end ly recognized animal fats being of course, com- of the seventh month, when she gave birth to twins, pounds of fatty acids and glycerine. He promises one living and the other dead. There was no escape later to give us its exact chemical composition. The of liquor amnii at her confinement. The same lady special point of interest about it to us as physicians, in her eleventh pregnancy commenced to lose fluid is, that it seems to be absorbed by the integument at the end of the seventh month, which continued with much greater facility than the substances now in until the completion of the full term, when she gave general use as bases for ointments. In the British birth to a healthy child. She had what her attend-Medical Journal of Feb. 13, 1886, a number of form- ants called a dry labor. ulæ are given, being so far, the result of Prof. Lieb- Case 3.—Mrs. D. W. R., aged 31, the mother of reich's observations as to the most convenient method nine children, has been pregnant since July 1st, 1885. of associating it with other substances. He there refers to several clinical cases of interest, psoriasis, her bedside that she was flowing, and asked to be favus, and eczema. He regards it as an excellent supplied with a napkin. A sheet folded and placed base for blue ointment. He claims that when a under the patient was thoroughly saturated with fluid; small quantity of a sublimate continent of t in 1000 the discharge being equal, probably, to about two made with lanolin is rubbed on the skin, that in a few pints. She had severe pains, simulating those of laminutes the characteristic metallic taste of mercury bor, lasting a few hours. On December 15 she had appears in the mouth, and from this and other ob- a similar discharge. The future of this case is vet servations, concludes that all toxic agents should be to be decided. used, when associated with lanolin, with great cau-

# CHICAGO GYNÆCOLOGICAL SOCIETY.

Stated Meeting, Friday, January 15, 1886. THE PRESIDENT, DANIEL T. NELSON, M.D., IN THE CHAIR.

W. W. JAGGARD, M.D., EDITOR.

Dr. Charles Warrington Earle read a paper entitled

THE WATERY DISCHARGES OF PREGNANT WOMEN.

during her pregnancy, commencing at the third mother. The truth of these reports seems to be month. She was the mother of three children, and doubtful, because where the membranes are intenhad always been free from any marked pelvic disease. tionally broken, the action of the uterus never fails. The first discharge was clear and watery, and she est to come on. A few cases of this kind, somewhat and were frequently attended with considerable pain. centa, several pints of lymph were discharged. There was a decided diminution in the size of her abdomen after each discharge.

Frequency.—These cases evidently take place with more frequency than we have, up to this time, supposed; but the older obstetric authors have noticed peculiarities of this kind, and given very fair descriptions of the complication.

Smellie says (page 177, Vol. II): "Dribbling of fluid may go on for weeks, but a sudden gush is invariably followed by parturition; the longest interval between a sudden gush and labor being seven days." In this he is certainly mistaken, as the history of many recorded cases and some of mine will demonstrate.

Denman, 1815, says: "Instances have been recorded in which the waters of the ovum are said to Case 1.—Mrs. F. K. consulted me for a profuse have been voided as early as the sixth month of pregwatery discharge which had taken place several times nancy without prejudice either to the child or to the timates the quantity at about two quarts. This came similar, have occurred to me. A discharge of coloraway in a gush, most of it being discharged at once, less fluid takes place, daily, from the vagina for sevalthough there was a slight loss for some days there eral months preceding labor, which is due to the after. At first it was thin and clear, then slightly rupture of some lymphatic. Such labors are usually thicker, of the color of weak coffee. These dis-premature and the feetus small." The same authority charges seemed to occur every two or three weeks, also cites a case where, after the delivery of the pla-

Burns, 1822, page 238, says that the discharges of watery fluid from the vagina are not infrequent, and On October 30th I found her in great pain, and generally depend upon the secretion of glands about an examination demonstrated that the feetus was very the cervix; the rupture of lymphatics, or from fluid

collected between the chorion and amnion, or water eral theories, that it seems to be well established that from blighted ovum in the case of twins.

Dr. Pentland relates a case in which coughing produced a discharge, the water being discharged at the fourth month; but labor only occurred at full term.

Merriman, in his work entitled "Difficult Parturition," 1826, relates the case of a lady—six months pregnant—from whom a profuse, watery discharge

The differential diagnosis occurred. She summoned a physician, who assured following similar discharges: her that if pains came on she would soon be delivered. She continued, however, to the end of preg-glands. nancy, having a profuse discharge each day. At full term she was delivered, her attending physician rup- curring only once. turing a bag of waters, which appeared in no way different from usual cases. No opening was discoverable in either the placenta or the membranes, and must be small in quantity, and we would expect that he concluded that the discharge must have come from it would continue for a considerable length of time. the outside of the membranes.

full account of hydrorrhea, the description not being the usual amount of fluid. different from those I have already related. quent than are generally supposed, but makes the lowed, a considerable amount of fluid might collect, pregnancy is carried along to its full term.

names, as their ideas of its origin and pathology are the abdomen.

to be, in many cases, confounded, and I see no way more perceptible diminution in the size of the uterby which a differentiation can be made.

1st. A discharge of the liquor amnii.

2d. Discharges from increased glandular action. 3d, A possible collection of fluid between or out-liquor amnii.

side of the membranes, and its irregular evacuation. ago, had I seen a marked case. A study of this case a very small amount of fluid. with others collected from my own experience, and the perusal of the article written by Dr. Thomas C. discharge taking place from the cervical glands. Smith, of Washington, D. C., which appeared in the Fluids discharged from hydatidiform degeneration of American Journal of Obstetrics, in May, has caused the chorion or from cauliflower excrescence, would me to go over the subject carefully and to present be so associated with the diseases which cause them what I can obtain from the authorities in regard to that the diagnosis would not be difficult. these peculiar discharges. Great numbers of cases

ject of very different opinions by different obstetric marked, and the patient is full of gloomy forebodings. authors. Chailly says that authors have attempted and anxious in regard to the final result. to show that these discharges are due to the accumulation of fluid between chorion and amnion; to many cases, only lives a short time. rupture of lymphatic vessels; to transudation through amniotic membranes; to rupture of the membranes rest and anodynes being about all that can be sugat some remote point from the orifice of the uterns, gested. and finally, to dropsy of the womb.

demonstrated conclusively the source of the flow.

the disease are vascularity, hyperemia and hyper- of water when she was not quite five months preg trophy of the interstitial connective tissue, and of nant. I thought it might presage labor, and told her the glandular elements of the decidua.

there are five sources from which this fluid may come:

1st. A discharge from the cervical canal. 2d. The decidual origin.

3d. Transudation through amniotic membranes

4th. Hydatidiform degeneration of the ovum.

5th. Cauliflower excrescences.

The differential diagnosis must rest between the

From the discharge from hypertrophied cervical

Fluid collecting between chorion and amnion, oc-

Escape of fluid from amniotic cavity.

I. The fluid escaping from the hypertrophied glands There would be no diminution in the amount of Chailly, edited by Bedford, 1844, gives a rather liquor amnii and the child would be found floating in

II. If the fluid collected between any of the memsays, however, that these discharges are more fre- branes, and adhesive inflammation surrounding it folerroneous statement that in nearly all these cases and the discharges would be considerable at once, and might or might not be repeated. In such a case Nearly all modern authors devote a short section there would be no evidence of escape of true amnito the consideration of this subject, giving different otic fluid, although there might be a lessened size of

III. Where the liquor amnii escapes there would Three separate and pathological conditions seem be a greater tendency to uterine contractions; a ine tumor, and a microscopical or chemical examination would certainly reveal some evidence of urine, as we know this exists in variable quantities in the

Transudation through the amniotic membrane, al-In my teachings I have been in the habit of speak- though recently noticed by Barnes, and mentioned ing of hydrorrhoea, but never, up to a few months by older authors, would give rise to the discharge of

This could hardly be differentiated from a slight

Prognosis.—As far as my observation goes, the life have been recorded, but no one, up to this time, has of the woman is not jeopardized, but she suffers from the constant discharge and becomes anamic. The etiology of these discharges has been the sub- The pain is sometimes severe, as I have before re-

The fœtus is usually born prematurely, and, in

The treatment must necessarily be very simple—

Dr. H. P. MERRIMAN had one case of this kind Lusk says the pathological processes involved in about a year ago. The woman had a sudden gush to let me know of any symptoms of lahor,-that I Barnes, in the "System of Obstetric Medicine and expected it would come on. But she felt better aft-' 1885, says in regard to these discharges, er having had the gush of water. She had, in the without entering into a critical discussion of the sev- course of two or three weeks, another, and said she time of its expulsion.

membranes ought to be carefully observed after the between chorion and decidua. delivery, to see what pathological cause brought on the abortion.

question as to whether there is any specific cause opsyphilitic or gonorrheeal infection may have anything

that Dr. C. R. Parke, of Illinois, reported a case to of the latter affection. him, in which the discharge of the liquor amnii took place, labor pains came on, and the umbilical cord importance to the critical examination of the feetal became prolapsed. He replaced the cord and gave envelopes in order to clear up a doubtful diagnosis. ergot. As labor did not progress, he finally gave woman was delivered of a living child; both did well. frequently occurred during the puerperium.

abortion; the membranes were not examined.

could tell when they were coming on, because she DR. W. W. JAGGARD said that he had listened to felt so full before they came. When the second came the reading of Dr. Earle's paper and the discussion I began to think that perhaps she was not going to with great interest. He could not, however, agree have labor at the present time after all; that it prob- with the author of the paper in considering the paably was not a loss of the amniotic fluid, and I exam-thology of hydrorrhwa uteri gravidi as obscure and ined her and found the os not dilated. I could feel, confused in all its details. Carl Braun (Zeitschr. d. however, by carefully introducing my finger, that Ges. d. Wiener Aerste, 1858, No. 17, p. 257) and C. there was water still remaining there,-the amniotic Hennig (Der Katarrh der inneren weiblichen Geschbag remaining apparently intact. I gave her opiates, lechtstheile, Leipzig, 1860, p. 48), had clearly and thinking that labor might possibly be prevented. She went along for nearly a month after that, before she condition. Chronic decidual endometritis may terfinally miscarried. She had three separate gushes of minate in the formation of new connective tissue, or water at intervals of two or three weeks before her may manifest itself by the production of a yellow, miscarriage finally came on. The feetus had perhaps sero-albuminous fluid, variable in quantity, which aca little over six months of intra-uterine life at the cumulates between decidua vera and reflexa, or when vera and reflexa are united, between decidua and It strikes me that we might learn by careful exam- chorion. Carl Braun accordingly considers the conination of the placenta and membranes after delivery, dition to be a serous endometritis. Hennig aptly a great deal more than we have yet learned about terms it catarrhal decidual endometritis. Catarrhal this subject. I cannot help thinking that there must decidual endometritis must be distinguished from be some defect in the feetal envelopes to have a thing collections of fluid between the amnion and chorion, like this occur. It could not have been a rupture of the so-called amnio-chorial water. Bischoff has the amnion, but there may have been a separation designated the unorganized, albuminous fluid uniting between the amnion and the chorion, as I have seen chorion and amnion as the tunica media. The quanin one other case in my own practice, in which the tity of this fluid may increase abnormally, at the infant or feetus enveloped in the amnion came away, same time that its consistency is diminished. Mcleaving the chorion within the uterine cavity. And Clintock describes a case, referred to by Spiegelberg, we had a similar case presented to the Society a year in which the amount of "amnio-chorial water" was ago, by Dr. Sawyer. The amnion had been separat- so great as to simulate hydramnios. The "amnioed from the chorion, and came away intact by an ef- chorial water" may be discharged without the interfusion of liquid between the chorion and amnion, ruption of pregnancy, but then the discharge of fluid Now, if that takes place, why of course there may be is not repeated, as in the intermittent discharges of a separation in part and then adhesion again after the hydrorrhoa uteri gravidi. Labor always follows the occurrence of the rupture. Any gush of this kind rupture of the amniotic sac,—a fact which establishes indicates, to me at least, some disturbance of the the possibility of a differential diagnosis in the large feetal envelopes, either of the chorion or amnion, or majority of cases. It is unusual for labor to be prea cystic degeneration of the placenta; and it strikes maturely induced by the discharge of the "amniome that in every case of this kind the placenta and chorial water," or collections of catarrhal secretions

A condition strictly analogous to hydrorrhwa uteri gravidi is frequently observed in uterine fibroids. I would like to state, in addition to my case, that The intermittent discharge of a yellowish sero-albuthe woman finally had her miscarriage quite suddenly, minous fluid from the uterine cavity is a symptom of I was not present, and another physician was called, such frequent occurrence in this condition that at-THE PRESIDENT said that he would like to ask a tention is directed to it by most systematic writers.

With reference to the etiology of hydrorrhwa uteri erative in the production of these cases? Whether gravidi, there were several facts of practical import. Any antecedent endometritis-gonorrheal, syphilitic to do with it, and also whether inflammation of the or of other origin—is an adequate etiological factor. mucous membrane of the uterus precedes these Hydraemia appears to favor the development of the causes? Is it, in other words, an acute or chronic condition. The coincidence of hydraemia with catarinflammation of the mucous membrane that causes it? rhal decidual endometritis would certainly indicate DR. HENRY T. BYFORD had nothing to add, except the exhibition of chalybeate tonics in the treatment

He fully agreed with Dr. Merriman in attaching great

Dr. EDWARD WARREN SAWVER called attention to DR. H. P. NEWMAN had seen a single case. The thought that the condition technically termed hydrordischarge, however, was greater than in the cases re- rhaa gravidarum, was due in all cases to the translated, and came on about six weeks previous to the udation of the amniotic fluid. This was the opinion ably advocated by Charpentier.

quoted Charpentier correctly. Charpentier mentions why irritation of the os uteri should cause vomiting? Stapfer's recent monograph (*Thèse de Concours*, 1880), How does this irritation act so as to produce vomitin flattering terms; enumerates the various hypotheses ing? It seemed to him that the presence of the fœtus proposed by a large number of observers, and says in the early months of pregnancy would have but the German theory, already referred to, is the most little influence on the os. And yet it is during this

little to say in closing the discussion. It seemed to os is involved, then the vomiting, as a rule, ceases of him, however, that there was one thing, at least, that its own accord. we should learn from our consideration of this subject this evening. It seems to be impossible for any one the uterus is one of the early signs of pregnancy. In to determine the exact source from which a consider- some cases, however, this softening does not occur. able amount of fluid is occasionally discharged from The circular bands fail to dilate, and reflex sympathe vagina of a pregnant woman. We do not know whether this fluid comes from the amniotic cavity or external to it; therefore, we should not give ergot or commence the dilatation of the os uteri after a watery discharge, believing that labor must come on, because from the testimony we have received here to-night, and from other evidence, it does seem that even if the liquor amnii is prematurely evacuated in a few cases, pregnancy may go on to full term. My attention has been called to the phenomenon mentioned by Dr. Sawyer, and if I had not desired to make my paper as brief as possible, I should have spoken of the watery discharges which occasionally take place after labor. I have never seen a case, but it is mentioned in the literature, and it is believed by those who have written upon the subject that the fluid in these cases comes from either the large lymphatic vessels, or perhaps from a continuation of the same disease which produced the discharge before. Dr. Sawyer is certainly not quite in accord with the malin which Copeman's method stopped the vomiting of jority of authorities when he says that the discharges of pregnancy always come from the cavity of the womb, by which the organ was relieved of its conamnion.

Dr. Sawyer: No; but the term "hydrorrhoea" should be reserved for that class of cases.

Dr. Earle: This is not hydrorrhæa, as I understand it. The term should be applied to a discharge it is equally beneficial in all cases. of fluid from outside of the amniotic membrane; perhaps not from outside of the chorion, but certainly because he could not comprehend how the correction from outside of the amnion.

(To be concluded.)

# MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, February 10, 1886.

THE PRESIDENT, C. H. A. KLEINSCHMIDT, M.D., IN THE CHAIR.

T. E. McArdle, M.D., Secretary.

(Concluded from page 273.)

Dr. J. Taber Johnson read a paper on THE MECHANICAL TREATMENT OF THE VOMITING OF PREGNANCY.

(See page 284.)

DR. A. Y. P. GARNETT said that Dr. Johnson had

Dr. W. W JAGGARD thought Dr. Sawyer had not method. Now, what Dr. Garnett desired to know, was time that the vomiting usually occurs. As the preg-Dr. Charles Warrington Earle had but very nancy progresses towards the later months and the

> Dr. Johnson replied that softening of the neck of thetic disturbance of the stomach is the result.

> Dr. Garnett contended that in the second week of pregnancy, when the vomiting usually sets in, there is no necessity for a softened os. Moreover, a somewhat similar disturbance of the stomach often occurs at the menstrual epoch, when the patient has a non-gravid uterus. He was much more inclined to adopt Grailey Hewitt's theory, and consider flexions of the uterus as a frequent cause of the vomiting of pregnancy. In reply to Dr. Smith, Dr. Garnett said it would not militate against this theory to advance the fact that nearly every pregnant woman suffers more or less from vomiting, for may not nearly every woman have some displacement of the uterus?

> DR. A. F. A. KING said he believed Copeman's method was beneficial because it relieved uterine congestion. So, too, with the correction of displacements. In a word, congestion of the uterus, no matter how produced, must be relieved. The mode pregnancy was by producing contraction of the gestion.

> Dr. S. C. Busey asked Dr. Johnson if the genupectoral position is a remedy for all displacements? Dr. Johnson replied that Dr. Campbeil contended

> Dr. Busey then said that he had asked the question could be maintained in a case of anteversion after the patient had assumed the erect posture.

> Dr. Johnson said of course some form of pessary must be applied.

> Dr. Busey said there is more of hysteria in the vomiting of pregnancy than most medical men will admit; but less than Hewitt claims. He thought the correction of displacements would relieve some forms of gravid nausea, but fail in others. Copeman's method has carried many women to full term; but it does not always succeed. Such a means, however, must always be considered a dernier ressort. Perhaps Dr. Johnson does Grailey Hewitt an injustice. That gentleman did not state that the vomiting of pregnancy was due solely to displacements of the uterus; but to that cause and to contractions at the internal os.

Dr. King said the genu-pectoral position would covered the ground so completely that there was not cure the displacement and thus relieve congestion. much left to be said. It is evident from the paper It was the latter factor, in his opinion, which caused that the weight of testimony is in favor of Copeman's the vomiting; and Copeman's method would relieve it when it was due to a contracted os. Dr. Johnson had done too much at one sitting. If he had dilated the cervix a little the first time, and several hours afterwards repeated the attempt, he would not have run so great a risk of producing an abortion.

Dr. Busey said that Copeman had accidentally pregnancy. He intended to produce an abortion in Men—Cerebral Abscess after Empyema—Portrait of a certain case by dilating the cervix. The patient did not abort, but the vomiting was relieved. Dr. made some hours later.

provocation.

no effect on the vomiting.

He, therefore, had no faith in Hewitt's views. He time. The bacterium cure is now prepared. end of the pregnancy.

to retain the uterus-so that the criticism against Copeman's operation was scarcely a fair one.

the pessary were not applied.

Dr. Johnson, in closing the discussion, said he correction of displacements.

# FOREIGN CORRESPONDENCE

# LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT.)

Bacterial Therapeutics-Mortality among Medical William Harvey.

The theory of the survival of the fittest, and con-King may not be correct in his opinion that Dr. sequently that in the struggle for existence the weak-Johnson would not have produced an abortion if he est must go to the wall, has led Dr. Cantani to apply had not been so precipitate. Such a result will hap- these principles in the case of one particular germ pen sometimes despite every precaution. The dila- the bacillus tuberculosus, or that which causes contation should be effective, and the physician is not sumption—to be opposed by another species of germ. responsible for the abortion. It is true that it is not His idea is that of encouraging the natural warfare necessary for the dilatation to be carried to the in- of the germs already noted. The battle-field here is ternal os at the first sitting. A second trial may be the human lung. The combatants are the bacillus just mentioned and a certain other germ known as Dr. King contended that Dr. Copeman had not the bacterium termo. Both combatants are well dilated sufficiently to produce an abortion. Another known in the field of microscopic inquiry, and the point to be taken into consideration is the predispo- hoped for result of the battle is the rout of bacillus sition of some women to abort on the slightest by bacterium; in other words, the clearance from the lung of the former and disease-producing germ by Dr. Johnson, in reply to a question by Dr. Smith, one which is not disease-producing, and which in the said that his patient had a prolapsed and anteverted struggle for existence will kill off its opponent. The uterus. He corrected the displacements, but with bacterium termo is found in the ordinary processes of decay. Making sure in the first instance of his Dr. Smith said it looked like a deliberate attempt ground, Dr. Cantani, by experiments upon animals, to produce an accidental abortion. Dr. Johnson pulls proved that the termo could not produce disease. down the uterus with a tenaculum, and after using a Next came the actual application of the remedy and dilator, places his finger in the cervix and makes a the opposing of the harmless bacterium to the noxious "boring and forcing movement." Dr. Smith knew of bacillus in the lung. A consumptive patient was no better method for producing an abortion. In Dr. selected for this interesting experiment. That the Smith's experience displacements of the uterus did case was one of true phthisis was proved in the acnot seem to be a potent factor in the production of customed fashion. Animals inoculated with the the vomiting of pregnancy. At least, the vomiting matter brought up from the patient's lungs developed was not increased in ratio of greatest displacement. consumption, and died of the disease in a few weeks' agreed with Dr. Garnett that the cervix has nothing germ has been cultivated in a suitable mediumto do with the body of the uterus until towards the liquefied gelatine and meat broth. The patient is made to inhale this culture of the bacterium daily. Dr. Bromwell read a quotation from Barnes in The results are, to say the least, curious. The cough reference to the advisability of trying Copeman's and expectoration diminish. The bacilli grow fewer and fewer, until they are no longer to be detected in Dr. J. B. Hamilton said it occurred to him that the expectoration. In less than a month after comeven the correction of a displacement frequently pro- mencing the inhalation the disease germs can no duces an abortion, especially when a pessary is used longer be seen, and, most satisfactory result of all, the matter from the lungs no longer produces consumption in animals inoculated therewith. In the DR. Busey said the abortion might occur even if struggle for existence the, to man, harmless germ has replaced and killed off the germ of the fell disorder.

Cantani's method has been followed out by other could hardly believe that Dr. Smith was in earnest. physicians. A Dr. Salama, of Pisa, has experimented Copeman's method is an acknowledged means of in similar fashion. On July 17 last, the inhalations relief, and has received the sanction of obstetric au- of the bacterium were commenced in the case of a thorities. He was inclined to agree with Dr. King consumptive patient in whom all the symptoms of that if he had dilated more slowly, and had not finthed is a the disease were unmistakably present. On August is hed for a day or two, the result might have been 2 the bacillus had disappeared, and the patient, as in different. Dr. Smith's experience with displacements the other case, gained strength and flesh rapidly. No was too limited to be put in opposition to the numer- one can for a moment pretend to believe that at last ous recorded cases of vomiting being relieved by the a sure remedy has been found for consumption, nor is this Dr. Cantani's contention. His aim is to illustrate and to apply practically a principle in biological

science to the cure of disease. It may be that other the battle are exposed to chances of death above harmless germs will be found in the already long lists those incurred by nearly all their fellows. of microscopists, which will serve the purpose of At the last meeting of the Medical Society of soldiers fighting for health against disease even better London an interesting discussion took place, upon than the bacterium termo itself. It is something the occurrence of cerebral abscess after attacks of emgained in the fight against disease to know that there pyema. A case was mentioned of a patient, a goveris a possibility of opposing successfully one germ ness, aged 20, who had suffered from empyema which against another. The future of medicine may in- had opened spontaneously. Later, however, a sinus clude possibilities of the kind such as may throw remained, and portions of the fourth and fifth rib vaccination and its concomitant practices completely were excised and the pleural cavity washed out. In into the shade. At the very least it is noteworthy eight days this was followed by attacks of an epilepto observe how, from the very domain of science, tilorm character, vomiting, coma and death. At the which has flooded us with the knowledge of disease necropsy an abscess three inches long was found in germs and their terrible power over human life, there the anterior lobe of the right hemisphere of the comes a hopeful echo of ways and means for counter-cerebrum. balancing the malign influences these microscopic particles exercise on our physical well-being.

eral's Office has published some interesting facts with College of Physicians. regard to the mortality in the medical profession. According to Dr. Ogle, the Superintendent, there were in 1881 no less than 15,001 duly registered medical practitioners, and it appears that the death rate is not only high, but it is also on the increase. In the years 1880, 1881 and 1882 the mortality was higher than that seen in other professions. It was also above the death-rate exhibited by doctors for two decades or so before, it being 25.53 per thousand. The worries of the law, it would appear, do not mili- day at 11 A.M. tate against forensic well-being; the lawyers died during the same period at the rate of 20.23 per 1,000, from permanently organized State Medical Societies and the clergy show a death-rate of only 15.93. Again, when the medical mortality is compared with are recognized by representation in their respective the death-rate of teachers, with that of commercial State Societies, and from the Medical Department of travelers, or even with that of the miner and his the Army and Navy, and the Marine Hospital Service coal dust lungs, these fairly unhealthy and very un- of the United States. sanitary occupations are found to present favorable comparison with the doctor's chances of old age. The innkeeper, butcher, brewer, quarryman, cutler, and workers in certain other trades are behind doe- of its regular resident members, and one for every tors in the matter of mortality. Coming to more additional fraction of more than half that number: intimate details, Dr. Ogle says that some 388 deaths Provided, however, that the number of delegates for occur each year among the doctors of England and any particular State, territory, county, city or town it is probable one may set down the number 770 as physicians who may have signed the Code of Ethics representing very nearly the total deaths of medical of the Association. men per annum. The causes of death per million of medical men and per million of other men, the nated, are earnestly requested to forward, at once, death-rate from scarlet fever is as 59 to 16, from lists of their delegates. typhus as 79 to 38, from diphtheria as 59 to 14, from typhoid fever as 311 to 238, from alcoholism even, as 178 to 130, from suicide as 363 to 238. In the forfeited their membership, the Secretaries are, by matter of suicide, self-destruction by poison is the special resolution, requested to send to him, annually, preferential method of the profession. Liver diseases a corrected list of the membership of their respective kill off a moiety of the profession, and a great au. Societies. thority has explained this fact by a reference to the irregular dietetic habits which the business habits of years of age is 73 per million. Among medical men respective Sections. . . . "—By-Laws, Article 11, it is only 13 per million. These researches show indisputably that the war against disease is one attended Practice of Medicine, Materia, Medica and Physiwith risks of no mean kind, and that those who fight ology. Dr. J. T. Whittaker, Cincinnati, Ohio, Chair-

An interesting portrait of William Harvey is being etched by M. Walther for Messrs. Colnaghi & Co., of The Statistical Department of the Registrar-Gen-Pall Mall East. The original belongs to the Royal G. O. M.

# ASSOCIATION ITEMS.

# AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tues-

The delegates shall receive their appointment and such County and District Medical Societies as

Each State, County, and District Medical Society entitled to representation shall have the privilege of sending to the Association one delegate for every ten Wales. Adding in the Scottish and Irish mortality, shall not exceed the ratio of one in ten of the resident

Secretaries of Medical Societies, as above desig-

Also, that the Permanent Secretary may be enabled to erase from the roll the names of those who have

# SECTIONS.

"The Chairman of the several Sections shall prea doctor induce. In the matter of small-pox the pare and read, in the general sessions of the Associaprofession comes out triumphantly. The annual tion, papers on the advances and discoveries of the death-rate from small-pox among all males above 20 past year in the branches of science included in their

man; Dr. B. L. Coleman, Lexington, Ky., Secretary. sanctum, as well as the sacred homes of its corps of Obstetrics and Diseases of Women and Children .-Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary,

Surgery and Anatomy.-Dr. Nicholas Senn, Milwaukee, Wis., Chairman; Dr H. H. Mudd, St. Louis,

Mo., Secretary.

State Medicine .- Dr. John H. Ranch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas, Secretary.

Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton,

St. Paul, Minn., Secretary.

ville, Ark., Secretary.

Oral and Dental Surgery.—Dr. John S. Marshall. Chicago, Ill., Chairman; Dr. A. E. Baldwin, Chicago,

Ill., Secretary.

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting.—By-Laws.

wood, St. Louis, Missouri, Chairman.

AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary-all other nominations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J.—Create a new Section, to be known as the Section on Medical Jurisprudence. WM. B. ATKINSON, M.D.,

Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

# MISCELLANEOUS.

THE YELLOW FEVER COMMISSION.—The unfriendly attitude of a contemporary towards the proposed "Yellow Fever Commission" has called out an able letter from Dr. Irving A. Watson, of New Hampshire, to Louisiana's distinguished sanitarian, Dr. Joseph Holt. The following extracts are taken from his letter, which is published in the Sanitary News, of March 6:

spring up where the personal interests of a few were jeopardized, and from some who place selfish motives above moral principles, jealousies before humanitarian philanthropy, and to whom revenge is sweeter than the disenthrallment of their own communities from the terrible slaughter of a relentless and uncompromising pestilence. It would not have caused surprise to have found some crabbed medical journal in a state of next triennial prize of £300, under the will of the chronic hostility to advancement in science, opposing the measure, because of its inherent inability to do early in 1889, to the author of the best essay or treaotherwise; but, for a so-called reputable publication, tise on "The Origin, Anatomy, Results, and Treatlike the New Orleans Medical and Surgical Journal, ment of Tubercular Diseases of Bones and Joints. to lead the attack in what appears to be an unchivalric The essays shall contain original experiments and

editors, unfortified against the menacing disasterdisparaging an attempt to battle the hitherto unconquered enemy, is an incongruity of action which, to professional men living beyond the borders of yellow fever invasion, can be looked upon only as being prompted by motives which are not apparent to the public. Its tender regard for the \$30,000 of the funds of the United State sas against the happiness, comfort and lives of the people of a vast area of this Ophthalmology, Otology, Laryngology. - Dr. Eugene republic is too unreasonable even to credit, and must be received as a flimsy screen to conceal the animus of its opposition. The assertion that the investiga-Diseases of Children .- Dr. W. D. Haggard, Nash- tions of Freire and Carmona are without scientific ville, Tenn., Chairman; Dr. W. B. Lawrence, Bates- value seems to my mind little less than a distortion of facts, and unwarranted without further investigation. Freire's investigations, as recorded in his voluminous illustrated report to the Brazilian government, show an amount of scientific work that places him among the first biologists of the day, and, if his conclusions are correct, as there now appears to be no reason to doubt, crowns him as the greatest living benefactor of the human race. The statistical record of his vaccinations just published (1886), together Committee of Arrangements.-Dr. Le Grand At- with the deaths from yellow fever in Rio de Janeiro from January to August last, presents an array of facts that cannot be controverted by any method of

"For a publication, whatever its name or kind, pretending to wear the dress of mediocrity even, to attempt to defeat the investigations by the general government into the means and methods of saving life and of maintaining unbroken, so long as natural law has ordained, the unit of our country's strength and prosperity-the family circle-is, unless some superior plan is offered with an assurance of its adoption and execution, lamentable beyond expression when viewed from the standpoint of human love or moral duty. We, at the North, with our homes safe from this one monster of death, with a patriotic regard for the welfare of every community in this great sisterhood of States, and with hearts tender to the wails of distress which we have too often heard from the sorrowing homes of the sunny South, that have been stricken with this terrible disease, join with you, your associates, and the American Public Health Association, in urging the passage of the bill now before Congress. This measure is supported upon the broad principle of humanity and loyalty to public "It was to be expected that hostile influences would interests, by men in old New England; but to see opposition to it springing up from men living in a district that has more than once been decimated by the frightful pestilence, is an anomaly which we must believe . . incompatible with common sense.'

ASTLEY COOPER PRIZE.-It is announced that the late Sir Astley P. Cooper, Bart., will be awarded, and unprofessional manner, a journal having its own observations which shall not have been previously published; and that each essay shall (as far as the blood in the fluid state. His plan consists in coating of Guy's Hospital until claimed by the respective current.—The Lancet, Feb. 20, 1886. writers or their agents. A printed form, giving particulars regarding the conditions to be complied with, pital, Southwark, S. E.

THE DAKOTA MEDICAL BRIEF, is the title of another new journal, the first number to appear on the 1st of April next, at Mitchell, Dakota. It is to be published monthly, and edited by F. Andros, A.M., M.D., and H. S. Sevey, M.D.

Dr. Louis Balch, of Albany, has been appointed Secretary of the New York State Board of Health.

THE CAUSE OF IT.—An English contemporary says, in advocating the muzzling of dogs as a preventive of hydrophobia: "A muzzle at any rate, cannot be more uncomfortable than high-heeled boots, tight stays, or chimney-pot hats." If dogs in London are afflicted with these things there is no great wonder that they go mad.

PURCHASED AMERICAN DEGREES IN GERMANY .-It is said that proceedings are soon to be instituted in Germany against persons styling themselves "Doctor" on the strength of diplomas purchased Capt. C. E. Munn, Asst. Surgeon, ordered for duty as post from America in absentia. There are said to be surgeon, Ft. Cœur d'Alene, I. T. from America in absentia. There are said to be 3400 of these "doctors" in Berlin alone, either of Capt. M. W. Wood, Asst. Surgeon, ordered for duty as post surgeon, Ft. Walla Walla, Washington Ter. (S. O. 31, medicine, philosophy, or law.

THE ILLINOIS STATE BOARD OF HEALTH has just issued a revised "Register of Physicians and Midwifes in Illinois," and recently its seventh Annual Report, for the year 1884. The report on medical Capt. Wm. G. Spencer, Asst. Surgeon, ordered for duty at Ft. education show an increasing uniformity in the methods and practices of medical colleges.

A READY MEANS OF PRESERVING THE FLUIDITY OF BLOOD.—A student in Professor Stricker's laboratory, Herr Ernest Freund, has, it seems, suggested a most simple and convenient method of preserving

subject shall admit of) be illustrated by preparations the interior of a glass vessel with pure oil. Into this and drawings, which shall be added to the Museum receptacle blood freshly drawn is poured, and a layer of Guy's Hospital, and shall, together with the work of oil is then run over the surface exposed to the air. itself, become henceforth the property of that institu- In this way, we are assured, fresh blood may be keyt tion. This prize is open for competition to the whole from coagulating for days if necessary. It is difficult world; though the essay may not be the joint producto see how so simple an experiment, if once satisfaction of two or more authors. Essays, either written torily demonstrated, should afterwards be discredited ih the English language, or, if in a foreign language, by repetition. We may therefore hope that this apaccompanied by an English translation, must be sent parently trivial application of a physical law will be to Guy's Hospital on or before January 1st, 1889, a real gain to practice as well as research. In paraddressed to the physicians and surgeons of Guy's ticular it should obviously facilitate the operation of Hospital. Each essay or treatise must be distin- transfusion, though it will not entirely replace that guished by a motto, and accompanied by a sealed still more ready means of treatment, salt solution. envelope containing the name and address of the It need hardly be said that this mode of preventing writer. None of the envelopes will be opened except coagulation is new rather in its easy and general ap-that which accompanies the successful treatise. The plication than as illustrating a principle for the first successful essays or treatises, with the illustrative time discovered. Professor Ludwig made use of the preparations or drawings, will remain at the Museum same idea in estimating the velocity of the blood-

THE MASTER PLUMBERS OF BALTIMORE have premay be had on application to the Dean, Guy's Hos- pared a bill designed to prevent incompetent persons from carrying on the plumbing business in Maryland. It provides that the Governor shall appoint biennialy five persons, to constitute the "State Board of Commissioners of Practical Plumbing;" three of whom are to be skilled plumbers from Baltimore, one the Commissioner of Health of Baltimore, and the fifth to be a member of the State Board of Health.

> Ohio Sanitary Association.—At the recent meeting of this active Association, held in Columbus, the following were elected officers for the ensuing year: President, Dr. S. H. Herrick, of Cleveland; Vice-Presidents, Prof. E. T. Nelson, Ph.D., of Delaware; W. H. Phillips, M.D., of Kenton; C. P. Landon, M.D.,, of Westerville; Secretary, R. Harvey Reed, M.D., of Mansfield; Treasurer, Prof. John Simpson, Ph.D., of Mansfield.

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM FEBRUARY 27, 1886, TO MARCH 6, 1886.

Major J. W. Williams, Surgeon, ordered for duty as post surgeon, Vancouver Barracks, Washington Ter.

Dept. Col., Feb. 20, 1886.)

Major Wm. S. Tremaine, Surgeon, leave of absence extended six months, on surgeon's certificate of disability. (S. O. 50, A. G. O., March 2, 1886.)

Major Henry McElderry, Surgeon U. S. Army, leave of absence extended one month. (S. O. 49, A. G. O., March 1, 1886.)

To be Asst. Surgeons with the rank of captain, after five years' service, in accordance with the act of June 23, 1884:

Asst. Surgeon Wm. H. Arthur, Feb. 18, 1886

Asst. Surgeon Geo. E. Bushnell, Feb. 18, 1886.

Asst. Surgeon Henry P. Birmingham, Feb. 18, 1886.

Asst. Surgeon Marlborough C. Wyeth, Feb. 18, 1886. (Circular A. G. O., March 1, 1886.)

# ournal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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No. 12.

# ORIGINAL ARTICLES.

TUBERCULOSIS PULMONUM, ACUTE AND CHRONIC -ITS NATURE AND TREATMENT.

BY A. S. v. MANSFELDE, M.D.,

OF ASHLAND, NEB.

PRRMANENT SECRETARY, NEBRASKA STATE MEDICAL SOCIETY; PRESI-DENT OF THE RAILROAD SURGEONS' SOCIETY OF NEBRASKA, ETC.

I. The name. This was chosen because the word mind of the clinician, comprises conditions with which our present inquiry has no part; and again, the word tuberculosis, as used by pathologists, does not fully cover the disease processes of which we shall phthisis.

must find in the soil a proper and sufficient amount ples, lobules. of food for its growth and propagation; that the dis-

est of medical problems, the stamping out of this terror of human kind-tuberculosis. To facilitate comprehension, a description of the parts involved in the disease seems unavoidable. The forty-two ounces of lung tissue are composed of bronchial tubes ramifying in a dichotomous manner in every direction, until their terminal branches, the bronchioles, have diminished to a diameter of from 0.3 to 0.2 mm. These tubes, from their origin, the trachea, to the lobulettes, or respiratory cavities, are composed phthisis, hitherto used for chronic tuberculosis, in the of four layers, the external fibrous, a muscular, an internal fibrous, and a mucous membrane, with its ciliated cylinder epithelium. Accompanying these tubes we have the pulmonary arteries, the bronchial arteries, pulmonary veins, bronchial veins, nerves and lymphatspeak. Phthisis of the clinician may include all the ics, all surrounded by the adventitia, which consists of destructive processes taking place in the lung, and loosely interwoven connective tissue, traversed everyexcept post-mortem examination clear up the error, where by large lymphatics, which have from their many diseases, such as multiple embolism of what-situation received the name of perivascular lymphatever nature, followed by necrosis of smaller or larger ics and peribronchial lymphatics, respectively. The areas of lung tissue, some of them, by their extent, bronchi are kept, for the greater part of their course, deserving the name of gangrene, are classed with pervious by cartilaginous plates, which are contained in the external fibrous layer; here clusters of fat-cells The pathologist, on the contrary, is inclined to and mucous glands also abound. The latter termiexclude all processes from the clinical history of nate by a straight duct, with trumpet-shaped mouth tuberculosis which are not accompanied by tubercles, upon the free surface. Approaching the respiratory be they gray or yellow, situated in the tissue or in cavities the glands and cartilages disappear entirely, the bronchial termini; though of late some have inand the external fibrous layer in which they are imcluded all caseous deposits in the list of tuberculous bedded, though constituting one-half of the calibre conditions. That both parties are incorrect in their of the larger tubes, diminishes to the size of a deliexclusions and admissions will be a part of my work cate membrane. Upon this the muscular coat, conto prove in this paper. For the purposes of this sisting of delicate bands of smooth muscle cells, is paper the term tuberculosis is meant to cover the placed, and upon that the internal fibrous layer, parmanifold changes, acute and chronic, occurring in ticularly noted for its elastic bands and fibres, which the body, in the presence or by the aid of a micro- continue into the parenchyma of the lung. The scopic parasite, the bacillus Kochii vel. b. tubercu- parenchyma proper consists of delicate connective losis. It is also claimed that a peculiar conformity tissue sheaths, which constitute the framework of the of the lymphatics facilitates the occurrence of tubercures piratory cavities; of connective tissue rich in elaslosis; that the seed, the bacillus, requires a porous soil tic fibres, which tissue forms the septa of the confor its entrance into the economy; that it must restiguous alveoli, as well as the boundary tissue between main undisturbed during its germination; that it systems of alveoli, called lobulettes, and their multi-

Between the septa and in the connective basis ease is always caused by infection; that it is never substance, close to the respiratory cavities, bloodinherited; and finally, that it is often curable. It vessels and capillaries, lymphatics and lymph-spaces would be inexcusable repetition to give a history of abound. The alveoli or air vesicles are small shallow the diseases and conditions which, from the time of cavities, lined by a stunted epithelium of the cylin-Hippocrates, have been regarded as necessary factors drical variety, assuming the type of the pavement of tuberculosis; suffice it to say that, however con-tradictory observations and deductions have been, all of them were aimed at the solution of this mighti-brane composing these cavities carries upon its conenhain demonstrating the excretion of solid sub- brings us to the consideration of: stances by these channels).

is in proximity to these elements of the fibrous conthe lymph capillaries from them. Now, when we inedical science. remember that the alveoli or air vesicles have a

ing of the Berlin Physiological Society on March 24, thologists and clinicians is that the lymphatic appar-1882, Dr. Robert Koch announced that he had found at us is in some way at fault in these persons, although by a process of double staining (with methyl blue and there are no direct anatomical observations on this vesuvin), a bacillus of the length of one-third the point on record. I thought that the minute anatomy diameter of a blood corpuscle (0.0026 mm.), with a of the tissues of such persons should be investigated, breadth of one-sixth to one-fifth of its own length and at once began to collect the necessary material. (0.0004 to 0.0005 mm.). That this bacillus occurred . . . . I have here two specimens under the microin fresh tubercles and more sparingly in older ones; scope to which I invite your particular attention, as that he had cultivated them upon solid media (Nähr- they illustrate the histological difference referred to boden), composed of coagulated blood serum; that between the normal tissue of the rabbit and that of they grew very slowly, needing about two to four the cat. The animals, which are representatives of weeks for their life-cycle, and that they required a the scrofulous and non-scrofulous species, were of

vex surface the tortuous capillaries which intertwine temperature between 86° and 105° Fahrenheit for in the septa of contiguous alveoli, and so closely do their development; that he had grown several generthese minute blood-vessels embrace the alveoli, that ations of these bacilli, and that members of each their delicate arms sink by more than half into the generation, introduced into the bodies of other anicavity of the air vesicle. A number of alveoli grouped mals, had given rise to tuberculosis; that, therefore, together form an infundibulum, several infundibula this bacillus is the infective agent by which, or in the terminate in one common passage-still composed presence of which tuberculosis develops (and not of air vesicles—the alveolar passage, three or four of simply tubercles, as many writers seem to think; for which form a lobulette, or acinus of the lung; ten or tuberculosis is a pathological entity, tubercles simply fifteen of these comprise a lobule, and these again an anatomical one.—The author). Now, it is unijoin to form the three lobes of the right, and two versally admitted that these bacilli are omnipresent lobes of the left lung. The lymphatics, as every- in restricted localities, such as certain hospitals, less where in the body, so also in the lung, take their so in tenement houses, cities, country towns, the counorigin from surfaces covered by epithelium and endo-try, and places which are uninhabited. This being thelium in the following manner: As is known, both the epi- and endothelial cells covering surfaces are cian and nurses, are no more likely to take the disease not contiguous, but are separated by what is called than the rest of the community? and why are these cement substance, and this substance does not adhere only liable to the extent of fifteen out of every intimately to the apposite cells, but sufficient space hundred? The smallness of the bacilli and their remains for the transmission of fine particles, of solid omnipresence are certainly no barrier to their choice substances even, such as sulphindigate of soda, as of habitat. The reason, then, why general infection has been so beautifully demonstrated as occurring in does not occur, must not be sought for in the pecuthe kidney, i. e., from the capillaries surrounding the liarities of the bacilli, but in differences existing beuriniferous tubules to the lumen of the latter (Heid-tween the members of the human family. This

The peculiar conformity of the lymphatics by which It is very probable that this cell cement forms part the occurrence of tuberculosis is facilitated.—In regard of the bodies of connective tissue corpuscles; for it to this subject we may be permitted to quote Dr. H. F. Formad, of Philadelphia, whose paper read before nective tissue and their derivatives, the fibres, or the Philadelphia County Medical Society on October bundles of fibres, that we find the first traces of lym- 18, 1882, deserves not to be buried in oblivion, which phatics; these are lymph-spaces, minute irregular it stands in danger of, partly in consequence of dechannels, lined with the same delicate endothelial ductions fully unwarranted, as time has demonstrated, plates which we are accustomed to find in blood and and partly because of the adverse criticism of Koch, lymph capillaries; and they, the lymph-spaces, occupy whose authority was, and is even now, so great in the intermediate ground between these two systems investigations concerning bacteriology, that his proof vessels, the blood capillaries leading to them and or con decides the fate of offspring in this branch of

Formad says: "The predisposition to tuberculosis diameter of 0.1 to 0.4 mm., and that the capillaries in some men and animals, the so-called scrofulous habit, nearest them have a diameter of 0.0045 to 0.0113 lies in the anatomy of the connective tissue of the indimm., and presumably nearer the smaller limit, as the vidual, the peculiarity being a narrowness of the lymph capillaries of the lung belong to the narrowest in the spaces and their partial obliteration by cellular ele-body, we will realize the smallness of the lymph ments. The idea of working up the anatomy of scrofspaces, which do not admit blood corpuscles under ulous persons was suggested to me some years ago ordinary circumstances. The dimensions of these by the lectures of Prof. James Tyson. Dr. Tyson, lymph spaces would be inconceivable were it not for in his lectures, as well as Virchow, lays great stress the aid which the microscope vouchsafes; and yet it upon the predisposition to tuberculosis, and desigis here, and only here, where the battle for life and nates it as a peculiarity of scrofulous persons, that supremacy between the elements of the body on the inflammatory processes in such persons terminate one hand, and the bacilli upon the other, takes place. ultimately in the formation of cheesy matter at the The bacillus tuberculosis vel Kochii.—At the meet- seat of injury. The general impression among paequal age, both healthy, killed in a similar manner prior to its establishment any of the criteria of scrof-and the sections, which were taken from precisely ulosis. Another factor, therefore, for the establishcorresponding parts, are equally treated and mounted. ment of tuberculosis must necessarily be added, and I selected in this case the corresponding parts of the this consists in the porosity of the soil for the implannose of the two animals. It makes, however, no tation of the seed, the bacillus. difference what part of the body is taken, as long

means a disease in itself. It has a perfect analogue in the domestic rabbit and the guinea pig. The offspring of these scrofulous animals have the anatomical peculiarity of the connective tissue of their parulous human beings."

Not all localities are equally accessible to the baas it shows some connective tissue. The relative cillus. Observation shows that stratified pavement difference to be spoken of is equally striking every epithelium forms the most thorough protection to the where in the two animals in corresponding parts of underlying structures. A recent author goes so far the body. At the first glance it is seen in the speci- as to claim that gonorrhoea in the female seldom, if men from the rabbit that there are a great many more ever, proceeds from the vagina, but having been escells in the microscopic field than in the correspond- tablished upon the cervical membrane (cylinder epiing field in the specimen from the cat. Again, that thelium) spreads thence to the adjoining parts, which the cells which are located in both cases between the may readily yield to medication; the disease, the goninterstices of the connective tissue are predominantly ococci, however, may still remain in the starting round and crowded in the rabbit, with only a few point, the uterine cervix, as a nidus not only for inspindle-shaped and stellate cells, while in the cat the fection of parts more interiorly situated, but also for cells are mainly of the latter two varieties, scattered the urethral mucous membrane of the male, thus furand few in number. In other respects the connective nishing an explanation for the causation of gonorrhea tissue proper appears similar in both cases. The dif. by females apparently well. And just so the stratified ference seen in the tissue of the rabbit and the cat epithelium of the mouth protects this from syphilitic, exactly corresponds to a similar difference between diphtheritic and tuberculous infection with far greatthe scrofulous human being on the one hand, and a er certainty, than the stratified columnar epithelium normal individual on the other. Repeated micro of the parts beyond. Less resistance, of course, is scopic examination of well-selected cases has shown offered by simple layers of epithelium of which the this. . . . . Comparing a large number of sections cylindrical variety is the least resistant. We do not taken from corresponding parts of the bodies of rab- speak of traumatic lesions now; they may one and bit and cat, it is also distinctly seen that the lymph all of them be included in the category of accidental spaces are, on the average, decidedly narrower and inoculations, productive, invariably so, of a primary fewer in the rabbit than in the cat. The perivascular tubercle formation and consequent general miliary spaces are, however, equally free and similar in both. tuberculosis, or of the latter at once, which difference "The filling of the lymph spaces with desquamat- is explained by the amount of material (baccilli and ed and germinating endothelial cells, or with wander-their spores) which has found its way into the circuing—in white blood corpuscles, is a well known fact lation. Of these things hereafter. What concerns in the pathological histology of tuberculosis, but it us now is the cultivation of the soil, i. e. the lungs, for does not seem to be known that this is a normal con- the reception of the seed, and no conditions are betdition in the rabbit and guinea pig, and in scrofulous ter husbandmen than measles and pertussis, and their persons long before tubercular disease ensues. . . concomitant bronchitis. And none exemplify our "The results of the observations above briefly narrated suggest the establishment of an anatomical of bronchitis, which seems to affect the uppermost criterion for the predisposition to phthisis. Animals layers, the epithelia of the mucous membrane particwith this predisposition, viz.: the described anatom- larly. So much so that smaller or larger patches of ical anomaly constitute a well defined species, that the epithelia die and leave raw surfaces exposed, of scrofulous animals. The same anatomical an open for the reception of almost anything-the baomaly is seen in men; and hence, I think, we are just- cilli of tuberculosis among others. And indeed tuberified in classing all the scrofulous human beings as a culous ulceration of the larger bronchi would be far pathological species of mankind. The scrofulous more frequent, were it not for a provision hitherto condition being an anatomical anomaly, is thus not entirely overlooked—the protection offered by the necessarily a pathological condition, and is by no elastic fibres of the internal fibrous layer, and particularly by the circular muscle-layer, which may be crowded to death by tubercular growths, but never acts as their submissive host.

In pertussis we seldom miss the bronchitis, and as ents; they inherit it, and so do the offspring of scrof- in measles so in this disease, the lymphatics and mucous and bronchial glands are drawn into sympathy, It must not be forgotten that this condition, called even to the extent of softening of the latter. To this scrofulous by Formad, can be induced in animals and is added the spasm of the glottis, which is overcome men who hitherto have not possessed it, and that by the explosive cough, but seldom without injury to those who have acquired it may transmit it to their the mucous membrane of the bronchi, so that hemorprogeny. It is certainly a clinical fact, that many rhages, larger or smaller, from it, are of frequent ocpeople who are scrofulous—that is, have this narrow- currence. Another factor established by the spasing of the lymphatics and accumulation of cells in modic cough is the squeezing of the fluid portion them, never die of tuberculosis. And again, that from the contents of the alveoli, leaving the dry persons do die of this disease, who did not manifest debris behind, which simulate in their appearance the

caseous matter of so-called catarrhal pneumonia. And acting as foreign substances upon the walls of when tuberculous sputa are injected into the intestthe alveoli cause a proliferation and death of the allines directly, or into the stomach by way of the stom-veolar epithelium, and thereby present a new surface, each tube. The latter process would be followed by a porous soil, to the seed of tuberculosis. This same varying results, and when tuberculosis did occur, it result is reached in another way by capillary bron-- was found almost invariably in the mesenteric glands chitis, in which the inflammatory process of the small- (rabbits). The injection into a loup of the small iner bronchi extends to the alveoli, giving rise to a de-testines, to the contrary, was followed by tubercuposit into them, which is composed of the usual in-lous ulceration of the intestinal wall itself. Wesener flammatory exudate and the multiplied epithelia and thinks that by stomach ingestion, the bacilli are detheir debris, now called catarrhal pneumonia, a name stroyed and the spores only find their way into the not at all appropriate, and one which should be reintestines, and are not lodged until they reach the placed by that of alveolar-bronchitis, for that is what mesenteric glands, where they develop; but when the its anatomical features proclaim it to be.

the development of tuberculosis is furnished, namely: on their walls. The undisturbed possession of the proper soil, for the the germination of the seed of the disease. For the berculosis in patients sick with the same disease of spores of tubercles, like other seeds, in order to de- the lung, may then be explained by the quantity of can grow and propagate. Indeed, in the case of the often noticed in such cases; the possibility of an adtubercle bacilli it is absolutely necessary, as they vanced development of the spores, which find their have but one method of spreading, that of infiltration way into the intestines; the anatomical changes deof the surrounding tissue. Now no part of the body scribed by Formad; and finally by traumatic lesions offers a better and more quiet retreat for these purion the intestinal mucous membrane, caused by the poses, than the alveoli, withdrawn as they are from cough, and other influences, not to speak of the loss the performance of the respiratory function. And of resistance of the tissues, presently to be mentionit is just here that the importance of Dr. Formad's ed. All these things being granted, another factor investigations appears. The contracted lymphatic for the lodgment of spores and bacilli of no small spaces, already crowded with cellular bodies offer, or importance must be considered: The carriers of the rather cannot offer any assistance to remove the ma- poison. terial accumulating in the alveoli. Nor can they perhave otherwise passed.

Wesener finds that entirely different effects result sputa are injected into the intestines directly, the Thusly another and very important requisite for bacilli at once commence their deleterious work up-

The frequent occurrence of the latter form of tuvelop, must be bedded in or on the soil before they sputa ingested; by the weakened stomach digestion

For a full comprehension of this point we may be mit the entrance into them, or the passage through permitted to again refer to Prof. Ribbert's paper, them of matters accidently introduced into the bur- above alluded to. Injections into the vein of the ear dened alveoli. (For it is not an absurd supposition, of a pure culture of staphylococcus aureus would be by any means, to maintain the passage of bacillary followed occasionally by very small foci of this bacspores, and bacilli even, through the lymphatics into terium in the heart muscle. Prof. Ribbert varied the the blood stream and thence by way of the kidneys experiment by scraping some of the potato upon the out of the body.) The lymph spaces, modified as surface of which the staphylococcus had grown, and they are in the scrofulous, do double duty; they assist in the retention of the product of the preceding ed into the vein of the ear; the result was a multiple alveolar bronchitis (alveolitis) and stand guard embolism caused by the potato, in the substance of against intrusions upon the travail of the seed of the heart, and a growth of fair dimensions of the statuberculosis. That these things are absolutely neces-phylococcus. The particles of potato furnished a sary, is shown by a recent and very ingenious ex-periment by Prof. Ribbert, of Bonn. He quotes the development. Thusly our position, that the bacillus observation of Lichtheim that a difference in the of tuberculosis must have a resting place, is corroblocalization of "mucor" and "aspergillus" exists. orated by the experiments of other observers for That the latter by preference develops in the muscle bacteria of an entirely different character, and we retissue, whilst of the former only once a small focus peat, that no place seems more propitious than the was found by him in the diaphragm. Prof. Ribbert, alveolus, withdrawn from the functioning part of the knowing that the spores of mucor are very much lung, provided however, that it furnishes the food smaller than those of aspergillus, subjected the spores 'necessary for the development and propagation of the of the former, with suitable precautions, to a process bacillus. And this food is supplied in the following of hatching, by which they carried on outside of the manner: In the first place it cannot be doubted, body a part of their developmental phase. In the that the material contained in the alveoli, composed course of twenty-four to thirty hours the microscope of the factors of the blood, and the epithelial cells of could detect a number of swollen and already germ- the alveoli furnishes a nutritive medium of superior inating spores. Such a preparation injected into the quality, the efficacy of which is chanced by the body would be followed by a great many foci of proper temperature, and this very food prior to its growing mucor in the muscles of the body. The exhaustion by the bacilli, has opened the way to germs had become larger, and this was sufficient to further supplies by its influence upon the adjacent retain them in the tissue through which they would tissue, pressure has brought the resistance of this down to a minimal, to be readily overbalanced by

contents of the alveoli.

scarcely a mention to him who knows, that the facil- into the thoracic duct. ity with which interchange of material in the tissues. The writer has several times followed the course takes place, governs materially the vitality of such of local infection to the development of general tubertissues. No one can fail to see the crowded and culosis and death. The last case was particularly innarrow lymph spaces, without observing at the same structive. It concerned a young man, rather intemtime the stunted blood capillaries; even the surface perate, with all the evidence of a weakened vitality, of such tissue shows the starved condition of it, by with no family history of tuberculosis, who had a its paleness and flabbiness. The very treatment of tooth drawn by a dentist. Several days after the exsuch parts by the physician and the surgeon demon-traction, intense pain in the tooth cavity took place, strates the low vitality inherent in them. The tuber-culous membrane of the pharynx receives stimulating the submaxillary glands became enlarged and some applications by the former, whilst the latter irritates eventually discharged their contents exteriorly. By the tuberculous joint by blister and rubefacient, fully this time a sinus was established from the tooth cavity cognizant of the fact, that rest, the alpha and omega to the surface below the angle of the jaw. I advised of the treatment of inflammation (over nutrition) is extirpation as the only means of hope, this was reworse than useless in these cases.

would be an unpardonable oversight not to mention all this in less than six months. Now an easy soluthe part played by the cells of the body, which Met tion of this case is offered by the supposition, that schnikoff calls phagocytes (the amoeboid cells and the dentist's tools were infected with the tubercle leucocytes) upon the one hand, and the fungi upon poison by previous use—the writer will have to see the other. "The phagocytes retaining their original the first dentist yet who seems to have heard anycharacter of intercellular food reception, act through thing of antiseptic surgery. A drying with a towel it as the exterminators of the parasites, and appear of the instruments used, after they have been rinsed therefore as representatives of the long since in cold water is the full extent of the precautions known healing power of nature, which was first against infection usually taken. I do not at the placed by Virchow into the tissue elements." He present writing remember of reading anywhere anycontinues to form an analogy, and with good reason, thing regarding the danger from dental surgery. And between the occurrences in the disease of the daph- yet it seems greater from the very proximity to the nia and tuberculosis, and concludes: "That also in sources of infection, as well as the nearness of the tuberculosis, against the cause of the disease, a bat-submaxillary and deep lymphatic glands to the thortle of the phagocytes rages, through which the organ- acic duct, and the general circulation. I know that ism often for a long time resists, and in some instances the road to general tuberculosis by way of those conquers." Thus every phase of the history of tuberglands, is the nearest that can be traveled. Now that culosis puts into prominence the importance of the attention has been drawn to this source of infection, scrofulous condition of the tissue. Yes, even the who is it in general practice who does not remember treatment of a person, sick with tuberculosis of the just such cases; and shall he not join the writer in lung, as taught by experience, assumes the necessity sounding the alarm? of restoring the greatest vitality to the patient, attainable by him. And what does this mean more than the restoration to their normal vigor of the component parts of the body.

That tuberculosis may occur anywhere in the economy wherever connective tissue and lymphatics exist, goes without saying, and that the cause of the disease, the bacilli and their spores, may and do find and well-grounded opinions as to the treatment of their way into the tissues by channels at all conceiv- what is sometimes called "scrofulous neck." These able, is a statement warranted by experience. Yet cases present enlarged lymphatic glands in the neck, this important point must not be overlooked, that causing little inflammatory disturbance or pain, as a tuberculosis is always a local disease, spreading by rule, but very chronic, and tending to break down progressive invasion, and that general miliary tuber- into cheesy pus. Exceptionally, complete resolution culosis is caused, with exception of its direct (artific- takes place; more often, fibrosis or calcification; but ial) introduction into the blood stream, by the dis- in the great majority of cases, sooner or later, arises charge of the contents of localized foci, either into an abscess which discharges through a sinus, the sinus the thoracic duct or the blood stream. This takes emitting pus more or less constantly until the entire place by the intervention of softened glands upon the one side, which empty their contents into the giene of the Suffolk District Medical Society. January 13, 1886.

the advancing hordes of the enemy; it falls a ready thoracic duct and thence into the circulation, or by prey to the bacilli, multiplied and lattened upon the a breaking of the softened mass from the glands into the blood stream, by way of adjacent veins, the walls But the pressure of the deposit in the alveoli is not of which have been destroyed by the same cause. C. the only cause of the lessened energy of the surround-ing tissue elements. Here again the conditions de-acute miliary tuberculosis, the place where the softenscribed by Formad will spring into view. It needs ed mass had broken into the general circulation, or

fused, and local applications ordered by consultants. In connection with this part of our subject, it The final issue-miliary tuberculosis and death-and

(To be concluded.)

### ENLARGED CERVICAL GLANDS.1 BY HERMAN F. VICKERY, M.D., OF BOSTON.

The object of this paper is to arrive at definite

gland has been thus expelled. Although there is not presented epithelioid cells, grouped in foci, and acmuch suffering, yet the tediousness of these cases, companied by more or less numerous giant cells), which may persist for years, the unsightly appear- and that he invariably found bacilli tuberculosis in ances caused both by the glands and sinuses and by them. There were indeed, other enlarged glands, in the scars they leave behind, and above all, certain part softened and dotted with minute abscesses, but dangers hereafter to be more fully discussed, render with no epithelioid nor giant cells, in which he found it desirable that the best possible treatment should be no bacilli. From the submaxillary gland of a scrofemployed for them.

rather than adults, although even old age is not absoduced a series of cases of general tuberculosis in lutely exempt. All debilitating, hereditary, or hygi- guinea-pigs, starting from the inoculation of pus taken enic conditions predispose to it; its chief victims, post-mortem from the "firmly encased submaxillary therefore, are the children of the poor and ignorant, gland of a child who had died of measles and bronchoor of consumptive or syphilitic parents. Overcrowd- pneumonia, without any trace of tubercular disease. ing, lack of sunlight, insufficient and improper food, but with well-marked clinical characteristics of scrofexposure to cold and wet, all promote its occurrence. | ula." It may therefore be affirmed of enlarged cer-Out of 172 children who entered a workhouse in vical glands, such as are ordinarily called scrofulous, Kent, England, healthy, all but three came to have that certainly a large proportion of them, and probenlarged glands. The exciting causes are very numerous, comprising such lesions of the mucous membranes as ozaena, stomatitis, tonsillitis, pharyngitis, phatic glands usually implies that the general health laryngitis, otitis, and conjunctivitis. It may follow has been impaired. The local disturbance is seldom chronic eczematous processes in the scalp or face. very annoying. The condition is often discovered It frequently arises after scarlet fever and measles, by accident. Occasionally there is some pain and and may be excited by dentition or by trauma. It is tenderness, particularly if suppuration is taking place. characteristic of this form of adenitis that, although By its mechanical pressure, a gland, or a collection supposed to be invariably secondary, its extent and of glands matted together, may give rise to comprespersistence frequently far exceed those of the primary sion of the carotid or jugular, the trachea or esophalesion. It is often impossible to determine what did gus, the recurrent laryngeal, sympathetic or vagus give rise to the glandular disorder.

In early stages, the enlarged glands are freely movable upon the underlying tissues and underneath the skin. They are smooth in surface, of uniform density, and more or less spherical. It is seldom that a soli-The affection is not essentially symmetrical; it may tissues undergo what is called a "cheesy" degenerthe nodular surface of the gland, its presenting spots of softening or fluctuation, and its adherence to the skin as well as to neighboring glands, if they also are enlarged. A rare termination for this cheesy transformation is spontaneous dessication and calcification. Almost always there is gradually increasing suppurathe adherent skin. About the histological changes, learned in works on surgery. I wish merely to state what seems essential to forming ease. Schüppel, of Tübingen, published in 1871 a called "scrofulous" glands-although not all-present the microscopic characteristics of tubercle, that is, one or more giant cells surrounded by epitheloid cells and lymph corpuscles, the whole supported by a fine recticulum. Klebs produced, by the inoculation of tuberculous matter, a disease of the lymph glands exactly like scrofulous infiltration. Koch reported, in 1884, that he had examined twenty-one may be absorbed if the general health be built up.

ulous boy he obtained pure cultures of the specific We find the disease prone to attack children much tuberculous bacilli. Dr. Hippolyte Martin also pro-

nerves. Epistaxis is sometimes caused by them, and

even fatal suffocation.

It is seldom that diagnosis is difficult. Acquired syphilis may cause induration of the cervical glands, but the enlargement is less, the tendency to cheesy tary gland is swollen; usually two or more are affected. degeneration is slight, and we should find other venereal symptoms. A simple adenitis, such as be bilateral. After continuing a variable length of might, for example, follow traumatism, is more acute. time with but little change, the gland may, as has It exhibits more inflammation, and either resolves or been said, be absorbed. Such a result is especially suppurates much sooner than a scrofulous gland. likely at puberty. The rule, however, is that the Pseudo-leukæmic glandular enlargements are more or less universal throughout the body, that is, in the ation. This can usually be recognized during life by axillae and groins and at other points, they grow more rapidly, do not break down, and are accompanied by marked anæmia and debility. Glanders and farcy could hardly be mistaken for mere scrofula, if the physician exercised any care whatever; and the same might be said of bronchocele. Cystic and other tumors may occur in this region, but are comparation, abscess formation, and external discharge through tively rare, and their differential diagnosis can be

"The scrofulous patient," says Allbutt, writing on a just view of the dangers and treatment of the dis- the treatment of scrofulous neck, "runs three risks in the continuance of his local malady over and book on "Tuberculosis of the Lymph-Glands," in above his faulty inheritance, namely: first, a tedious which he shows that a large proportion of what are local disease followed by a peculiarly unwelcome disfigurement; secondly, the fear of deterioration of his general health thereby, such that his best years of adolescence are spoiled and his entrance into manhood thwarted and weakened; thirdly, an inoculation of the system with elements which favor the develop-

ment of more general tuberculosis."

In the early stages it is quite possible that a gland cases of tuberculous glands (meaning such glands as Local applications may also promote the same result; in scrofulous persons." Lynch affirms that "The of consideration in discussing this mode of treat-

demands attention. In the first place it is usually glands? upon the case.

Experience has proved only too clearly the inefficiency resort to extirpation. of external applications; while surgical removal has The only occasion which seems to me to call for been found to be very satisfactory and comparatively local application is where there is pain, heat and easy. For example, Billroth, Treves, Fagan, of Bel-swelling, and as yet no certainty that suppuration has fast, and Teale, of Leeds, all express themselves as taken place. Such glands should be treated with a pleased with the results of extirpation.

About the treatment of cases still in the first stage clear signs of pus. there seems to be more room for difference of opinion. By first improving the general health there will makes the following therapeutic deductions at the end under much more favorable auspices.

but we shall revert to this point under treatment, of his lecture already referred to: It is desirable to When once nodulation, softening and adhesions have remove tubercles where it can be done without danbegun, the cheesy process is under way, and it seldom ger, because (1) they are fated to destruction, and ceases before the gland is totally necrosed and dis- until they are removed recovery cannot be perfect; charged. A fibrous or calcareous transformation of and (2) by such removal we destroy a source of at the gland is, however, possible, as is also absorption least local infection. On the other hand, he proceeds even now. A further and more important consider- to say, we should only very exceptionally undertake ation is the effect upon the general health, if the any serious operations which cripple or deform the glands are tuberculous. Friedländer, in his familiar patient, just on account of local tuberculosis: belecture on "Local Tuberculosis," states that although cause, (1) constitutional infection is not inevitable; the process is malignant, it is not apt to become dif- and (2) spontaneous recovery is possible. Schüppel fuse. Out of 332 cases of phthisis, Philips found, quotes with warm approval the dictum of Virchow post-mortem, "scrofulous scars" in but seven. Again, that "it is certainly justifiable to remove as early as out of 1,078 autopsies of consumptives, less than one possible such tuberculous organs as can be easily per cent. showed evidence of cervical gland disease. reached. If operation seems impossible or undesir-Says Treves, in his work on "Scrofula and its Gland able, then we should at least hasten suppuration and Diseases:" "While scrofula and phthisis are manifest-free discharge." Treves, in discussing treatment, ations of the same morbid process, I am nevertheless declares: "Out of the enormous number of patients convinced that phthisis is by no means common in who present caseous deposits in their bodies, the the scrofulous, and that the bulk of such patients do percentage of those who fall victims to diffused tubernot die of pulmonary consumption." And as to the cular disease is so very small that the probability of danger of acute miliary tuberculosis, Treves does not that disease may be put out of the question. I think think it very great, although he would not be entirely also," he continues, "that the argument advanced indifferent to it. On the other hand, Rindfleisch be- by Ruehle in favor of removing glands on the plea lieves that "tuberculosis hardly ever appears except that such removal may prevent phthisis is unworthy products of decay resulting from scrofulous processes ment," that is, by excision. These opinions seem to may enter the circulation and directly produce the differ considerably, but certain deductions can be tuberculous dyscrasia." Further remarks about prog-made from them. There is an acknowledged possinosis will be made incidentally under Treatment, bility of constitutional infection from strumous which is the next and final topic.

The virus, if it becomes thus generalized, The first indication to be met is, of course, to allay can only do so by way of absorption. It is then all causative disorders, such as eczema, rhinitis, pertinent to inquire, Why endeavor by external appharyngitis and the like. The general health next plications to promote resolution of enlarged cervical

depraved. Secondly, if the patient be in a state. Very likely we all breathe daily into our lungs the which offers the bacilli tuberculosis a favorable nidus bacilli of tubercle, and yet do not become consumpso far as the lymph glands are concerned, why may tive, because, presumably, our bodily condition is we not justly fear that predisposition to tuberculosis such as repels the invader. But the sufferer from pulmonum also exists? Either ground is sufficient tuberculosis of the cervical glands might, as has been basis for vigorous tonic treatment. Fresh air should seen, naturally be supposed to exhibit a predisposition be obtained for the patient, either at the seashore or to tubercle. If, by invigorating his system, we get in the mountains or in the country. For dwellers him into such a state that nature of her own accord near the coast it would seem more natural to choose absorbs the disorganized tissues, we may be content; the interior. Sunlight, moderate exercise, simple but for she probably will do it with impunity. Experience nutritious and abundant food, salt-water baths, and shows that this is often the case. It does not, howsuch analeptics as cod-liver oil, iron, arsenic or iodine; ever, commend itself to my judgment to seek, even -all these should be simultaneously brought to bear in the first stages of the malady, by local irritation, such as the application of various forms of iodine, If glands are already cheesy, we may be tolerably or by blisters or electricity, as some recommend, to certain that a lingering, disagreeable and disfiguring excite an artificial resolution, if I may so express process will go on for months and perhaps years, un-myself. It may be added that the attempt is often less the necrotic tissues are removed by operation, futile. If general stimulation fails, then we should

cooling wash until they either abate or else present

Let us make sure, before we form our own, what we little time be lost. Possibly some or all of the glands would like to obtain for a local result. Friedländer may be absorbed. If not, operation will take place

able can be quite readily cut out. The incision place and climate which seems best to meet its own should not be very long. Violent tearing of the especial needs and requirements. is usually necessary. Healing is promoted by ob- Augustine, for instance. taining rest for the parts, as by a leather or guttapercha stock, outside the bandages.

be somewhat antagonistic to each other, so that "the lack of them in one more nearly approaching the particular scrofulous malady any given patient pre-lideal climate. The opportunities which different resents would appear to protect him from any other outcome of the disease for at least the time being." This need not, however, prevent operation, for there is practically no danger that the eradication of scrofulous glands will indirectly excite caries or tumor which will give him exercise in the open air, be it

albus and the like elsewhere.

## SOME OBSERVATIONS ON HEALTH RESORTS.1

BY E. O. OTIS, M.D., OF BOSTON

It is not with the expectation of presenting anything new upon the subject of health resorts, that I write these few notes, but rather with the hope that possibly I may render some aid, by means of the folusunshine. Elevation, dryness, and equability are lowing suggestions and record of personal observation, I believe, of secondary importance, and are to tions, limited though they may be, to the family physician who is called upon, as so often unfortunately of the individual case are being considered. he is, in this climate, to recommend a proper resort to patients suffering from pulmonary troubles, for they sort, a reliable physician, with whom, if necessary, compose the majority of those who seek a new clime.

The subject of climatic cure is a many-sided one. and there are many and diverse opinions as to what constitutes a suitable resort for those with delicate have given much attention to the matter of climate, or diseased lungs. I have only to refer to the excellent paper of Dr. Harold Williams, in a recent number of the Boston Medical and Surgical Journal, to show the variety and conflict of opinions which exist upon this subject. The general fact, however, remains that thousands have had their lives prolonged or saved by a timely resort to some one of the many benefit and improvement, and so long as that conplaces in this country, more favored by nature as to tinues, it is better to remain in the chosen resort. climate than this bleak New England coast.

country or any place, as a universal elysium for all those afflicted with lung trouble. On the contrary, I believe that each individual case should be care-

Glands which are in the first stage and freely mov-fully considered in all its aspects, and be sent to that

surrounding tissues, besides other things, brings dan- One person has little vitality and is always pinched ger of troublesome periadenitis. The cheesy glands with the cold; such a one obviously will do better (which are nodulated, or have perhaps suppurated in a moderately warm climate, like Southern Califorand are fixed to the skin and to each other) are usu- nia or Florida. Another case will endure a certain ally best extirpated with a spoon. Treves has found degree of cold, and will thrive in a locality of lower the thermo-cautery very serviceable. In cases where temperature, like Colorado or Asheville. Again, the a subcutaneous abscess has formed it is often a much digestion may be at fault, and it is of primary immore ready than satisfactory method to make a sim- portance that a place should be selected where a good ple incision. Pus should indeed be evacuated with-out delay; but a careful search will quite frequently to be sacrificed as to the climate. Moreover, the discover a sinus leading from this superficial abscess mental condition and temperament must not be disto a cheesy gland deeper in, which itself must be regarded, and the kind of life the patient has been Teale praises Bigelow's sinus dilator for leading. One person requires much diversion, and such operations. Antiseptic precautions are advis- would be wretched in a quiet, secluded place, but able and iodoform makes a good dressing. Drainage contented and happy in a more lively one, like St.

Companionship is also an important element, and with pleasant, genial associates, one will often make The different manifestations of scrofula are said to greater gain in a less favored locality, than with the sorts offer for varieties of exercise are not to be lost sight of, as well as the favorite form of exercise of the patient. Happy and fortunate is the consumptive, as well as any other man, who has a hobby fishing, gunning, rowing, or horse-back riding. believe that the cause of many of the unfavorable results in cases which have been sent to health resorts of acknowledged worth, is the neglect of carefully considering all these factors.

> Of course, it goes without saying, that due attention should be given to the hygienic condition of the locality determined upon, and also, that the fundamental principles of all health resorts are to be borne in mind, namely: Pure air, dry soil, and abundant be taken into account rather when the requirements

> There should be at hand, also, in every health rethe home physician can communicate concerning his patient.

> I am of the conviction, as I believe all are who that the best results are obtained by as long a continuous residence as possible in the place and climate which has been found to suit the case. It takes a long time to become acclimated if the change is at all radical, as from a cold to a warm climate, or from a low to a high elevation, and after that, comes the

Still, there are many whose conditions and circum-I am not a partisan of any special portion of the stances are such, that the stay away must be limited, and the number of places from which to choose, restricted. In order, then, that the most good may be accomplished from the time allowed, all the greater care must be given in the selection of the resort from among the ones possible to the case in question.

<sup>&</sup>lt;sup>1</sup> Read before the Section for Clinical Medicine, Pathology and Hygiene of the Suffolk District Medical Society, January 13, 1886,

Indeed, so many points have to be thought of in be high and rolling. A fulfilment of these conditions choosing a new home for the man of weak lungs, is impossible in Florida, surrounded, as the State is, that I have almost come to the conclusion that no on three sides by the ocean, with its land surface physician has any right to advise a patient to go to but a few feet above the level, a dreary waste of inthis place or that, unless he has first visited it himself terminable swamp, intersected by sluggish streams and thoroughly investigated its advantages and de- and marshy lakes. Perched on her elevated posifects. Recently, a young lawyer came to me and tion, Thomasville can lay claim to the advantages of related his experience in being sent to a health re- a dry climate and thorough drainage, and her claims sort. After it was determined, from the condition have secured the recognition of the most eminent of his lungs, that he must go away, the advice as to physicians of the country who have made pulmona new climate was something in this wise: "Some ary troubles a study." say this place is good; others that; I know nothing Again, in an article entitled "Marion County, of any of them. Vou may find the Tennessee Moun-Florida: An Ideal Winter Climate," by Dr. Maxwell, tains of benefit, but I know nothing about them; of Ocala, published in the Medical News of Decemhave never been there; you can go and try them." ber 19, 1885, the author, among a number of very So he went, and after numerous vicissitudes, he fell loose statements, makes this assertion: "It is capto living a complete out-door life, much of the time able of demonstration. . .that Florida possesses on horse-back, and came home apparently well, and the essentials (of an ideal winter climate), in a higher has remained so for several years. Such hap-hazard degree than any country now known;" and as a part advice, however, will not always have such fortunate of this demonstration, he introduces a table of mean results.

article on "Thomasville as a Winter Resort," "ad- he says, "that Jacksonville. in the matter of dryness vised to change his climate when the physician knows of air, compares favorably with the popular resorts enough to give him intelligent instruction as to whither in all parts of the world," the table given, containing he shall proceed. Does he need a milder or high the names of thirteen places only, three being in temperature? a damp and relaxing, or a dry and Minnesota, three in Florida, two in France, and one bracing air? an inland location or the seaside? a val- each in Nassau, New Jersey, Georgia, Dakota, and ley or a mountain? Should he try Bermuda or Aiken, Massachusetts. If the Doctor had included Denver, or Nashua or St. Augustine, or Asheville, or any of for instance, in his list, he would have found its relathe score of resorts recommended for pulmonary in- tive humidity some seventeen points lower than that valids? If the doctor settles the point, it is well; if of Jacksonville.

not, the patient must take his chances, and do the I will now give some notes and bits of information best he can to settle it for himself." Going on to relate upon a few health resorts I have visited in the South his own experience, he says: "With lungs badly and elsewhere, and I trust I shall be pardoned if I out of order, everybody said I must escape the sesem to give some petty details, even to the noting verities of a New York winter by going somewhere. of boarding houses; for such information is often of I advised with several eminent pulmonary experts, much assistance in settling the perplexing question who agreed that it might be a good thing to get away, of a new home and climate. but did not seem to think it made much difference where I went."

future we shall have the specialist on climate. One garded as winter homes for invalids; but the rule of who has visited the different health resorts and made continuous residence, before mentioned, will hold careful observations, not only as to any particular good, I believe, even of many of these Southern loclimate, but of all the accessories of the place—food, calities. The mountainous regions, embracing the sanitary condition, means of exercise and amuse-ment, manner of reaching it, and so on; and who, considered more appropriate for the milder portions moreover, will give an unbiased opinion, instead of of the year, but here, again, I would advocate the the half truthful, exaggerated reports which local above rule for, at least, portions as far south as Ashepartisans give of the place they are personally inter-ville, unless the idiosyncracy and condition of the paested in. In a pamphlet before me, just received tient were such as to forbid a moderately cold climate. from Thomasville, Ga., I quote the following as illus- Of the coast resorts, places on the East or West trative of this exaggeration: "The fact is well re- side of the Peninsula of Florida are, perhaps, more cognized that a damp atmosphere is what a sufferer generally selected, and whether the Atlantic or Gulf from pulmonary trouble should avoid, and it follows, of Mexico shore is the more favorable, seems to be a that to obtain the greatest amount of good effects matter of opinion. As the prevailing winds are East, from the presence of the fragrant pines, the breezes it is said that the Atlantic coast gets the purer air dithat waft the balsamic odors abroad must be dry, and rect from the ocean, while it reaches the Gulf coast themselves inodorous. In order that these condi-after blowing over the peninsula, and is, in consetions be fulfilled, it is essential that large quantities quence, more or less vitiated. Of course, the climate of water be absent, and the surface of the country of all sea-coast resorts is a more or less moist one,

relative humidity, compiled by Dr. Kenworthy, from "Happy the patient," says Youmans, in a recent the inevitable Signal Service Reports, which shows,

The Southern resorts can roughly be divided into those of the coast, interior, and mountains, and with If specialists continue to multiply, perhaps in the the exception of the latter regions, are generally re-

> which, in adapting a climate to the individual case, is a factor to be considered.

<sup>1</sup> Popular Science Monthly, December, 1885, page 188.

poor, if, indeed, it can be obtained at all. The houses ed attraction to the place. where good board is obtained are generally kept by Northern people.

temperature is 58° in the winter, and 68° in the I met there. The exceedingly attractive and unique spring. The number of clear days for the whole year life which one finds there, however, and the many on account of its picturesque, quaint architecture, there are particularly soothing and restful. and pleasant water excursions.

very little evidence of it in St. Augustine.

If one desires to go still farther south on the At- which the Fort life offers. lantic coast, the little town of Daytona on the Hali- To jump from the South to the North, I wish to climate, by a resident of the place.

seems delicious.

of the railroad going from Sanford to Tampa are Mirror Lake House, at Lake Placid, can testify. lent there than in places away from the river.

Anywhere in Florida one is pretty sure to find conits choice as a health resort in many cases.

coast to escape the frequent east winds, and has a tion, if it is one, is bringing together, in such close

One fact I desire to emphasize, and I might as mild, equable temperature. It is in the midst of the well mention it here, namely, that, in my experience pines, and has a pure air and sandy soil. From my it is exceedingly difficult to obtain good food in the experience, however, one must have a good digestion South. The meat and bread are poor, as a rule, and if he would gain any benefit from a sojourn here. the coffee, with few exceptions, execrable, and from There is frequent daily communication with Charlesthe fact that there is very little grazing, the milk is ton, and the diversion of a run to the city is an add-

Fortress Monroe or Old Point Comfort does not seem to me to be altogether favorable for a contin-On the Atlantic coast, St. Augustine is the best- uous residence, but rather for a limited stay in the known resort, and it has much to recommend it. The spring or autumn. The soil is clayey, the weather soil is sandy, and the days, so far as my experience uncertain, and fogs are frequent. This opinion is goes, are generally sunny and delightful. The mean fortified by that of one of the military surgeons whom is said to be 235, which I should very much doubt. excursions by land and water mitigate very decidedly Artesian wells have recently been sunk, and the city the unfavorable climatic conditions, and succeed in is now supplied with good water in place of the sur-drawing the patient out of doors and out of himself. face water formerly used. It is an attractive place The peculiar Indian summer days which are frequent the old fort, sea wall, and barracks, and the presence those who cannot afford hotel prices, and who deof a military band adds much to the pleasure and en- sire greater quiet and seclusion than can be obtained tertainment of the exile. There is also good sailing at a large hotel, I will give the name of a good boarding house, the only one in fact on the reservation. If I may be allowed to give a couple of names, I It is that of Mrs. Eaton, near the water and oppowill say that any one who can obtain accommodations site the Fort. On the Hampton river, opposite the at Miss Hasseltine's on St. George Street, and have beautiful grounds of General Armstrong's Normal for his medical adviser Dr. Adams, will be well cared Institute and the Soldier's Home, is the boarding for. As to malaria; I have not much doubt as to its house of Daniel Cock, of good report, where there existence pretty much all over the South, but I saw are good opportunities for rowing. It is, however, too far away to allow one to enjoy the diversion

fax river, was highly extolled to me for its agreeable say a few words in conclusion, upon the Adirondacks, where patients not only spend the summer, but quite Going over to the Gulf side, I will speak of Tampa, a colony now the winter. Dry it is not, judging from reached by railroad direct from Sanford. In itself, my experience the last summer, and the diurnal variit is not very attractive, the streets being very sandy, ations of temperature are quite great. But despite which renders locomotion uncomfortable. The bay, all this, so far as my observation has extended, conhowever, is delightful, and the excursions upon it, sumptives do remarkably well there, provided there and up the Manatee River, and to Egmont Key are are no very acute symptoms. The air is bracing charming. So far as one's sensations go, the air and pure, and the out-door attractions numberless. Everything conduces to keep one in the open air, Bordentown, on the Manatee River, seemed to be and persuades to much exercise. The grazing is a quiet, pleasant retreat. I believe it is on the Gulf good, and consequently the milk is abundant and coast, a little way from Tampa that a location for a rich. The boarding houses are often poor, but good sanitarium has been recently selected. On the line ones can be found, as all who have made trial of the many attractive places in the pines, Orlando, Winter- do not know that it makes much difference where park, Longwood, Altamont, and Kissimmee, the lat-one goes in the Adirondacks in the summer; perhaps ter prettily situated on a lake of the same name. the portions of about two thousand feet elevation are Many find health and comfort on the St. John's River, the best. If one is strong enough, and the digestion but it seems to me that malaria must be more prevalis good, camping out probably gives one more pure air than can be obtained in any other way.

Saranac seems to be the winter home for consumpditions under which he can lead an out-door life, tives in the Adirondacks, and has the sanction of which answers one of the primary requisites for a Drs. Loomis and Trudeau. It is better protected health resort. Still the low, and in many portions, from the winds than other places, and commands a swampy character of the soil is a serious objection to good physician. Near by the village of Saranac is the sanitarium recently established—a most admirable About twenty miles inland from Charleston, S. C., charity. It consists of a large main building and is a resort much in favor with the Charlestonians, several cottages and tents, and, at a small price, one called Summerville. It is far enough away from the can obtain every needed comfort. The only objec-

proximity, a number of consumptives. This did not different to surrounding scenes. The lungs remained from the cheerful appearance of those I saw there, was returning, and the drooping spirits had revived. The sanitarium is kept open all winter, and I have at hand a letter from a lady who has been an inmate our steps North, following the strawberries. of the institution all summer, who wrote me that she Charleston it was the season of roses, and out door has gained so much she proposed to spend the winter life was delightful. Every day brought an excursion there. It was quite noticeable how many began to with it. Add to this, pleasant companions, and again, gain in weight after coming to the Wilderness.

ous other health resorts 1 have mentioned, or con-reached Fortress Monroe in its pleasantest season, sider those I have the best; I have only spoken of and here several weeks were spent with benefit to the few I have happened to be personally acquainted body and mind. Now it seemed to me that the genwith. I doubt not that there are many others far cral condition had so much improved that a more more ideal than any I have mentioned. All know bracing climate might with safety and benefit be of the remarkable results of the Colorado and New tried, so our next move was to Lake Placid in the Mexico climatic cure, and of the influence of the Adirondacks, 2000 feet above the level of the sea. climate in certain portions of California, and of the My hopes were realized. From 103 pounds, the high pine lands of the South, as represented by Aiken; weight went up to 120; the dyspepsia almost entirely indeed, I think we have in this country a wealth of disappeared, and the consolidation began to clear up. health resorts from which to choose. I desire, how- So much had been gained at the end of October that ever, to emphasize the fact that there are many other it seemed to me still more might be ventured, and considerations to be carefully weighed in selecting a after an interim of two or three weeks, my patient resort for a consumptive besides the one of the best went to Colorado, where she now is, and from whom ideal climate; in fact, that is the best ideal climate I have the most encouraging reports of her well being for the individual patient which best meets his indiand steady improvement. vidual needs, mental and physical. And that in any place where the air is pure, the sunshine constant, and the temperature so adapted to his condition that he can live out of doors, he will improve if improvement is possible.

I will very hastly run over a single case which I think well illustrates the points I have been attempt-

ing to make clear in this paper.

surprise and alarm, that a member of my family had prunifolium, so much vaunted in America, in several evidences of consolidation at both apices, accom- cases of threatened miscarriage, and I can entirely panied with a moderate rise of temperature. Distrusting my own judgment when thus personally ing, probably, in midwifery is more disappointing interested, I sought the opinion of Dr. Knight, who than the ordinary routine-treatment of miscarriage by very kindly gave it, but corroborated my worst fears. opium or Indian hemp on the one hand, or ergot on low, and there was much dyspepsia of many months' contrary to the prescriber's intention as in accordance prognosis grave. Many weeks of trying weather administered to arrest nterine action, and give rest still remained, and I determined that an immediate and ease from pain, been followed by immediate and was such a climate as would enable one to exist with calm, and a disappearance of symptoms. the least exertion, and lead an out-door life. Moreover these conditions must be obtained with as little outlay of strength as possible on the part of the patient. I therefore went with my patient to St. Augus-which five were successful, yet, these five being constitutions and the statement of the patients. tine, reached from Washington in about a day and a secutive, and the effect exactly following the admindays, where a delicate person could live out of doors own mind in giving the credit to the viburnum. The from morning to night, with perfect comfort. Damp case of failure was my first. no doubt it was and low, far from an ideal climate Case 1.—Mrs. B., two months pregnant, had disterest in what was going on, whereas on her advent, effect upon the pains, the os continued to dilate, and she could hardly get across the street, and was in-

seem, at least, to have a depressing effect, judging much in the same condition, to be sure, but the strength

At the beginning of May, we gradually retraced we had an ideal climate for the especial requirements I do not want it understood that I ignor the numer of this especial case. Loitering along we finally

#### MEDICAL PROGRESS.

VIBURNUM PRUNIFOLIUM IN ABORTION.—Dr. W. Macfie Campbell, of Liverpool, says: Since the publication of Dr. Wilson's paper in the Liverpool Medico-Chirurgical Journal of January, 1885, I have In March of last year, I discovered, to my great had the opportunity of testing the use of viburnum In addition to the pulmonary trouble, the vitality was the other. For these drugs as often act in the way standing. The outlook indeed seemed dark, the with it. How often has a dose of Battley's solution, change of climate was imperative, and that the harsh severe expulsive pains, while the attempt to empty spring winds must be avoided. The first requisite the uterus by a dose of ergot has resulted in a perfect

night. There I found delightful weather and sunny istration of the remedy, I have no hesitation in my

for a consumptive one might say, but it exactly ful-charge of blood, with uterine action. She was treatfilled the conditions required for the patient in ques- ed in the usual manner, with opium and rest for two tion, and before the month of April was over, she days, when extract of viburnum, in two grain doses, could walk about the old town, and take a lively in- three times a day, was ordered. There seemed no too small; at any rate, I had lost two days, which I MALCOLM McLean, of New York, offers the followtake to be the reason of the failure.

Case 2.-Mrs. H., pregnant for the seventh time, grains of extract of viburnum every four hours. There often desirable at this stage to quiet the irritation. was no return of bright blood, and the discharge gradually ceased. The relief to the pain after the rhage are greater than all else to both mother and first dose was in this case very marked.

during the fifth month was awakened by the "breaking of the waters," the escape being sufficient to sat- its termination by the accoucheur. urate her night-dress and bedclothes. This was followed by pains. I saw her in the early forenoon, sues, the ragina should be well distended, by either and gave three grains of the extract three times a day,

and there was no further symptoms.

Case 4.—Mrs. G., in the fifth month of her second

grains of extract of viburnum, three times a day, gave fetal parts. relief, as also a month afterwards, when the same

threatening symptoms appeared.

occurred in America, when she was given viburnum, os, when and her medical man provided her with a large store in England. She had an attack at sea, and in due gage in the cervico vaginal canal. time in Liverpool, and was pleased to discover that ficacious, as the liquid extract is very nauseous. in the os. While I was from home she had another attack, in Eighth.

with viburnum, the result would have been different. assistance. One sent for Dr. Westby on the third day; the other

phia hypodermically.

It does not do to build too much on the result of impairing their great value. these few cases; but I have been so constantly foiled in my endeavors heretofore to prevent miscarriage, delivery ought to be deliberately accomplished, in that I hope to have found in viburnum the sure ar-order to avoid maternal lacerations. rester of uterine action, which we certainly at present do not possess.

solid extract prepared from the liquid extract.-British Medical Journal, February 27, 1886.

THE MANAGEMENT OF PLACENTA PRÆVIA.-At the

ing rules in dealing with placenta prævia:

First. In any case avoid the application of all two months and a half, was awakened by a gush of chemical styptics, which only clog the vagina with water early one morning, followed by a bloody dis- inert coagula, and do not prevent hæmorrhage. At charge. On examination, the os was soft and dilat- the very first, the patient should be put in a state of able. She was kept in bed, and given at once three absolute rest-body and mind-and a mild opiate is

child, at the earliest moment preparations should be Case 3.—Mrs. B., inher sixth pregnancy, one night made to induce premature labor, and labor being once started, the case should be closely watched to

> Third. In primiparæ, the mothers with rigid tisthe colpeurynter or tampon, as an adjuvant to the

cervical dilatation.

Fourth. In the majority of cases generally, and pregnancy, had a bloody discharge, with uterine pains, in all cases especially where there is reason to believe The same dose was used, with the same good result. that rapid delivery may be required, it is more safe Case 5.—Mrs. W., in the second month of her sixth to rely upon the thorough, continuous hydrostatic pregnancy, had already had two miscarriages. Two pressure of a Barnes' dilator than on pressure by the

Fifth. Where the implantation is only lateral or partial, and where there is no object in hurrying the Case 6.—Mrs. S., first pregnancy, fourth month. labor, bipolar version, drawing down a foot, and leav-This case was particularly interesting from the fact ing one thigh to occlude and dilate the os, may be that miscarriage had been imminent in her case at practised according to the method of Braxton Hicks, each monthly period. The first and second attacks except in cases where the head presents well at the

Sixth, the membranes should be ruptured, the of the liquid extract, which he told her was unknown waters evacuated, and the head encouraged to en-

Seventh. In the majority of cases, podalic version the drug could be taken in pill, and was equally ef is to be preferred to application of the forceps with-

Eighth. In some cases, in the absence of sufficiwhich she was attended by Dr. Westby, who consident assistance or the necessary instrument, the comers she was only saved from miscarriage by the vi- plete vaginal tampon, in part or wholly of cotton, burnum. During this last attack, she took her pills may be applied and left in situ until (within a reasonfive and six times a day; in fact, her faith was such, able time) it is dislodged by uterine contractions and that she would have taken too many. Bromide of the voluntary efforts of the mother. In case of favorpotassium was also given to allay nervous excitement. able presentation-occiput or breech-the tampon Two other cases turned up during my absence, will not materially obstruct the descent of the child, both of which completed their miscarriage; and I and in some cases the tampon, placenta, and child cannot help feeling that, if they had been treated will be expelled rapidly and safely without artificial

Ninth. The dangers of septic infection by means was treated by another doctor with opium and mor- of the tampon or India-rubber dilators are so slight, if properly used, as not to be considered as seriously

l'enth. Whenever it is possible, dilatation and

Finally. As cases of placenta prævia offer special dangers from post-partum hæmorrhages, septicemia, As recommended by Dr. Wilson, I prescribe the etc., the greatest care must be exercised in every detail of operation and nursing, to avoid conveying septic material to the system of the mother.

Absolute cleanliness, rather than chemical substitutes for that virtue, should be our constant companion in close of an interesting paper on this subject, Dr. the practice of the obstetric art. - American Journal

of Obstefrics. March, 1886.

<sup>1</sup> In repeated large doses it is apt to give rise to headache.

## Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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CHICAGO, ILLINOIS.

#### SATURDAY, MARCH 20, 1886.

#### THE DEATH OF DR. AUSTIN FLINT, SR.

Of the many distinguished physicians of America, distinguished both as original thinkers and clinicians, none have risen to a higher place in the esteem and respect of the professional men of their country, and indeed of medical men the world over, than AUSTIN FLINT. For years his name has commanded the respect due to high professional attainments wherever medicine is known as a science. The esteem in which he was held abroad may be known by the fact that he was selected to deliver the address in Medicine at the next meeting of the greatest medical association in the world—the British Medical Association; and the estimation placed upon his professional ability at home was shown by his being chosen as the President of the Ninth International Medical Congress, which will meet in the City of Washington

"Nothing is more estimable," says Voltaire, "than not a man who

> " For the poor renown of being smart Would leave a sting within a brother's heart."

by him of the lamented Gross, his intimate friend: "His life, from the beginning to the end of his long professional career, was a life of work -work as a student, a writer, a teacher and a practitioner. From first to last he was a diligent student. If in his advancing and advanced years he held tenaciously to opinions previously formed, it was not from any lack of knowledge covering recent views, but because they failed to subvert his convictions. To hold fast to these after due deliberation was a strong mental characteristic. His was not a mind to be carried away by every wind of doctrine. He may have been open to the charge of undue tenacity of convictions, but, if so, it was not from a pride of personal opinions, but from a reluctance to relinquish aught that he had been led to believe was true." Hislife since he began the practice of his profession in Northhampton, Mass., in 1833, was one of continued study of and devotion to medicine, and what he has done to elevate American medicine and medicine as a science is too well known to require repetition here. From the very first he made himself known as a practitioner and as a valuable contributor to medical literature. His kindness of heart, natural refinement and gentleness enabled him to escape the censure which men so often pay as a tax for being eminent. His untiring energy seemed to carry the conviction that "it is better to wear out than to rust out;" and his application of his rich experience to present work showed that he was always making his present and all his future the fruit of all his past. Dr. Flint's life as an author was singularly success-

Few American writers, of any kind, had a style so simple, a diction so faultless. And in his success we have a most brilliant example of the truth, which he himself recognized and uttered, that those who aspire to success as authors must begin to write early. "How many," said he, "who cherish such an aspiraa physician who, having studied nature from his youth, tion in the dim future, remain content with present knows the properties of the human body, the diseases inaction! Continued procrastination is equivalent which assail it, the remedies which will benefit it, to indefinite postponement, and the latter to inabilexercises his art with caution, and pays equal atten- ity. Authors in Medicine do not spring like Minerva tion to the rich and poor." Such a physician and from the head of Jove." While, in a certain sense, man was Dr. Flint: a man of great professional he cannot be called a voluminous writer, his contrilearning and attainments, a student of nature, both butions to medical literature were many and very healthy and diseased, a great thinker and clinician, valuable. It is probable that no medical man of the of a kind and even temper, refined in conversation century has written so much with so little in it of and manner, great of heart, magnanimous and courtly, questionable value. As if recognizing that "learnnot given to criticisms of his professional brethren; ing without thought is labor lost, and thought without learning perilous," he combined the two in a manner that is worthy of all imitation. All that he wrote was written carefully-as was all that he did-as though How aptly may be applied to him the words spoken there was to be no subsequent retraction and correc-

tion of errors made in haste. "Reading maketh a THE RESTRICTION OF FLUIDS IN THE TREATfull man, conference a ready man, and writing an exact man;" and how full was his knowledge, how ready his hand, mind, and pen, and how exact his concerning the inadvisability of limiting the consumpwritings! In the most remote corners of the earth, wherever the science of medicine is known, read or superfluous fat. As was seen, he is diametrically optaught, his writings are known, and with them his posed to German therapeutists. As Oertel's methods fame has gone. His life is an illustration of the fact of diminishing the body-fat are attracting universal that the busiest practitioner may perform great lit- attention by reason of the striking success that has erary labors in conjunction with the other occupa- attended his efforts, we have thought it would be of tions which claim precedence, and are so irregular interest and profit to give a statement of his position and time-consuming. He might have written more; with regard to that taken by Sée. The eminent

if possible, greater than that as a writer. Indeed, it their Congress in Wiesbaden, but he cannot gainsay is difficult to say whether he was greater as an author, the brilliant results they have achieved. a teacher or a practitioner; or whether he was more devoted to his profession or his patients. In the in-necessity, of curtailing the daily consumption of terests of his patients he abated no energy, nor hes- water, but in his published utterances he repeatedly itated to brave any exposure, to make any sacrifice cautions against reducing it below what is required of time and rest, or spend hours in close study and by the system to carry off the products of tissue scientific experimentation. His manner and language waste. Indeed, Sée appears to us to be fighting as a teacher were lucid, straightforward and interest-imaginary foes if he proceeds on the assumption that ing, his voice clear, and he had an earnestness that the German therapeutists urge their point to the exrarely failed to carry conviction, both to students in tent of recommending a dry diet. A glance at Oerthe lecture room and his confrères in the medical tel's and Ebstein's dietaries shows that they allow societies of which he was a member.

he was the President in 1884, and to which he was tel), and 60 ounces (Ebstein), daily. ever and at all times most loyal—Dr. Flint's death is Dancel, who tried the effect of a "thirst-cure," a severe loss. When his State Society formally re-proceeded upon the supposition that water aids dipudiated the principles of the Association, he prompt-rectly in the digestion of fat and in the production ly severed his connection with the State Society, and of fat out of the food, since the hydrogen of the was chiefly instrumental in organizing the New York water combines with the carbonic acid to create fat. State and County Associations. Nevertheless, he Oertel bases his reasons for restricting the consumpwas far removed from the medical politician. For tion of water upon the physiological laws governing this his principles were too high, his nature too gen- the accumulation of adipose tissue, as follows: Fat erous, and his heart,

#### "Open all day for melting charity,"

too great. His long experience with human suffering had caused him to express the wish that he might be spared a long and painful illness when his alloted time should come; and his wish was granted. His last work was in the fulfilment of his duty to his pupils-the second duty of every teacher. His firstthe duty to his patients—he had always performed, as he had that to his professional brethren and his profession. His work, which bears the stamp of his individuality, and his character remain imperishable and priceless treasures to Medicine.

"His life was gentle; and the elements So mixed in him, that Nature might stand up And say to all the world, This is a man!"

MENT OF OBESITY.

In our previous issue were set forth Sée's views tion of water by individuals desirous of reducing their let us be thankful that he wrote so wisely and so well. French author just named may oppose by theory His success as a practitioner was not less, perhaps, and practice the views expressed by the Germans at

Oertel insists strongly upon the advisability, nay, their patients from 900 to 1,300 e.e. and 1,750 c.c. To the American Medical Association—of which of fluids respectively; that is, 30 to 43 ounces (Oer-

> is formed along and upon the adventitia of small blood-vessels, arterioles, veinules and the capillaries with which these stand in direct connection. At points remote from such vessels it never develops. Fat does not exist in the blood primarily as such, but as a lipogenic material. This, escaping through the vascular walls, collects upon their exterior in the form of minute flakes or globules, and these later on make up the adipose tissue. If, as may occur, the lipogenic material forms oil-drops within the interior of the vessels, along their inner surface, these then pass through the vascular coats and are absorbed by the connective tissue corpuscles of the vessels, whose outer coat then appears puffy and infiltrated.

> There is good ground for the belief that the permeability of vascular walls is enhanced by sluggish

ness of their contents or stasis of the circulation, and achieved in developing a truly National representative by their distension. Hence, the withdrawal of the organization embracing all ranks, whether specialist fluids of the system will, by overcoming vascular or general practitioner, and all interests, social, edudistension and stasis, lessen the escape of fat-forming cational, scientific and practical. But there is one material from the capillaries. Furthermore, the re- aspect in the progress of development that we have duction of the bodily fluids produces localized anæ- not noticed, because its importance demanded a mia within areas of adipose tissue, and the consequent separate and more careful consideration. We allude drying up of the vessels supplying these areas with to the establishment of Sections in which to prosecute nutrition. So soon, therefore, as the adipose tissue more successfully the scientific work of each annual is deprived of its nourishment, it undergoes de- meeting. JOURNAL of October 24, 1885.

suppose.

## MEDICAL ASSOCIATION.

have endeavored to point out the principles on which annual session. the National Association was originally founded, the demonstrated their necessity, and the marked success Committee on Nominations to nominate and the

structive metamorphosis and disappears by absorp- During the first decade of the organization of the tion. The reduction of fat in this way becomes not Association, all the scientific work, such as the readstrictly a physiological, but rather a "physiologico- ing of reports and papers, with discussions thereon, pathological" one. Such, then, are the considerations was done in general sessions of the whole body, numwhich induce Oertel to make a diminution of the bering from 350 to 1,000. This brief period was bodily fluids a part of his anti-fat treatment. When amply sufficient to demonstrate that very little prognecessary to reduce the bulk of liquid in the vessels ress could be made in that kind of work with such speedily, e.g., in cases of circulatory disturbances, unwieldy audiences during the time allotted to the he resorts to various methods of sweating the patients. annual meetings of the Association. Measures were These were mentioned in an editorial article in THE therefore early taken to remedy the evil by so amending the constitutional provisions as to restrict the In his work Oertel refers to two cases in which general sessions of each annual meeting to one-half obesity was strikingly lessened by diminishing the of each day, and allow all interested in any particular supply of liquids alone. No change was made in department of the science or practice of medicine to the diet, and, as the inclement weather of the winter meet in separate Sections during the other half of precluded outdoor exercise, the fat was not consumed each day, and thereby accomplish ten times more by oxydization. Before the simple restriction of the work each day than could be accomplished by all amount of water consumed was begun, the fat about meeting in mass. The Sections were first organized the mammary regions and over the abdomen was at the annual meeting of the Association in New several centimeters in thickness. In the course of a Haven, in 1860, so successfully as to give universal few months it had practically disappeared, leaving satisfaction. At that time each Section was permitthe integument separated from the underlying struc- ted to choose its own officers, Chairman and Secretures by only a thin layer of adipose tissue. These tary, at the opening of the first session, and each cases prove the benefit of the withdrawal of water Section was expected to close its labors with the within certain limits in the treatment of obesity, close of the annual session of the Association each Mark! within certain limits, we repeat; that is, suffi- year. The increased facilities afforded in the Seccient water must still be supplied to further ret- tions for scientific work caused a rapid increase in rograde metamorphosis and elimination of waste the number of papers presented at each meeting, products. We can but think that Sée mistakes the and soon showed two important defects in their pracactual attitude of the Germans on this question in tical working. It was found that an important part supposing they endorse so great a restriction of fluids of the time allotted for the first meeting of the Secas would produce the evil results noted by Jürgensen 'tions each year was occupied in the preliminary work in his own case. Certainly their practice does not of choosing officers and getting ready to work, and differ so widely as his utterances would lead one to the officers thus chosen and hastily inducted into office were often poorly prepared to perform their duties; and as they regarded those duties ended at THE SCIENTIFIC ASPECT OF THE AMERICAN the close of the annual meeting, there were practically no officers of Sections in the interim to be pre-In the three preceding numbers of THE JOURNAL we paring the work in an orderly manner for the next

These evils were partially remedied after a few modifications made from time to time as experience years by adopting a by-law requiring the General

Association to elect the Chairman and Secretary of not find adequate room and time for them in the each Section for the ensuing year, and to require respective Sections, and commenced the organization the Chairman of each Section to prepare for the of National associations of exclusive specialists, ingeneral sessions a brief address on the advancements corporating their favorite idea of either a limited made in the branches included in his Section during membership or more limited governing council, and the preceding year. This change contributed much the whole membership elective only by the society to give dignity and importance to the officers of the or its council. These associations of specialists have Sections, and increased their efficiency in promoting continued to increase until, with the National Assothe amount of practical work done. But the Nom- ciation of Internal Medicine and Pathology, the orinating Committee, being composed of one from each ganization of which has just been announced, they State represented in the annual meeting, had but embrace the entire circle of known specialties. Of little knowledge concerning the individuals who were course the special organizations divert from the Secmost efficient and faithful in the work of the several tions of the Association many valuable workers, who Sections, and sometimes elected for officers men who cannot well find time to attend both the same year. had never attended the Sections to which they were the same Sections for years. This led to the convicamendment to the by-laws for this purpose was proin St. Louis.

Section to nominate its officers for the ensuing year on the second day of each annual meeting, when the Section is generally the most full and the most favorable time is afforded for making good selections, it will undoubtedly be a decidedly practical improveof the many contributions that were offered. Nor much of his patronage. were the official positions numerous enough to accom-

If the present proposition for a better mode of seassigned more than two or three times, to the neglect lecting officers for the Sections of the Association of others who had worked faithfully and efficiently in should be adopted, and another simply allowing each Section to extend the time of its annual session betion that the members of each Section should have youd that of the general body whenever work of inthe privilege of nominating their own officers, and an terest and importance required it, or to hold a second meeting separately at another part of the year if posed and is to be acted upon at the coming meeting necessary, always reporting the results of their work to the Permanent Secretary of the Association, these If the amendment be so drawn as to require each Sections would afford every possible facility for the cultivation of any special department of the whole field of medicine that can be afforded by any of the independent special organizations. In addition, they would give to the specialists themselves the very great advantage of having all their important papers and ment. It would at once impel those who might be discussions early placed before a very large proporambitious for official distinction in the Sections to tion of all classes of the profession through The earn it by faithful attendance and good work in the Journal of the American Medical Association, Section itself, instead of giving their attention to the instead of being limited, as now in their Transacmembers of the general Nominating Committee. An- tions, almost exclusively to the narrow circle of their other amendment of the by-laws relating to the own members. If it be said that THE JOURNAL Sections is worthy of careful consideration. The would not be adequate to the publication of so large institution of Sections in connection with the Asso- an amount of material, the obvious reply is that the ciation in 1860 for the better advancement of the capacity of THE JOURNAL admits of any degree of scientific interests of the profession, without impairing increase that the increased patronage may demand. to any degree the social and educational, was followed Further, it is a mutual advantage both to the specialby so rapid a development and multiplication of ist and non-specialist that they be frequently brought specialties in our country as well as elsewhere, that into social contact, and the former be permitted to the time allotted to the Sections each year did not present his papers before audiences made up in part prove adequate for the proper reading and discussion of the latter, for it is from them that he must derive

Hence, to improve the organization of the Secmodate those more ambitious for advancement. And tions and extend the time allowed for their work, as as there has always been a class in the profession, we have indicated, would afford the highest degree more numerous, perhaps, in the chief cities in the of advantage for cultivating the scientific interests of Eastern or older States than elsewhere, who did not the profession in every direction, and yet preserve like the full representative organization adopted, but, and increase the efficiency of the general representaadvocated a more self-electing and narrower govern-tive organization for its valuable re-unions, fraterniing council, they readily joined with those who did zations, and educational advantages, as well as the

ready means it affords for harmonizing and concentrating the general sentiments of the profession in favor of such sanitary and other legislation as is required for the interests of the people. In the midst of the controversies in regard to Ethical Codes during the last few years, and still more in the dissatisfaction of a few influential parties concerning the action of the American Medical Association in regard to the preliminary organization of the Ninth International Medical Congress, we have heard in certain quarters the most inconsiderate denunciation of the National Association as having passed the day of its usefulness, and many suggestions have been made for a new organization to rival and finally supersede it altogether. The plan for this purpose, however, which has been blindly hinted at in correspondence running through a dozen or fifteen years past, and which is at present rapidly maturing, has been carefully kept from open public discussion. The plan is simply to complete the circle of National organizations of specialists in such a manner that their entire management will be centred in a comparatively few individuals, yet careful to include as many prominent or influential parties as is practicable; and when the favorable time arrives the whole are to be united by some plan of confederation to constitute one general head, to take the place of the present National organization.

It requires but a moderate degree of investigation to see clearly that the execution of such a plan would entirely fail to develop a general organization that would constitute in any sense a representation of the profession of the United States. The whole series of special organizations would embrace an aggregate of specialists from the larger cities, with the whole mass of 50,000 hard-working, intelligent general practitioners entirely out, with no part or voice in the matter. To call such an arrangement a National organization of the medical profession of this country, would be a misuse of words. It would be simply a confederation of organized specialism on the one hand, and an unorganized general profession on the other; with the self-complacency and arrogance of the one constantly deepening the prejudices and intensifying the contempt of the other. Yet such is the tendency of the discontented elements now losing no opportunity to disparage the truly representative organization of the whole profession, which has been maturing for forty years under the leadership of the American Medical Association.

## SOCIETY PROCEEDINGS.

SUFFOLK DISTRICT MEDICAL SOCIETY.

SECTION FOR CLINICAL MEDICINE, PATHOLOGY AND HYGIENE.

ALBERT N. BLODGETT, M.D., SECRETARY.

January 13, 1886. The meeting was called to order at eight o'clock, by Dr. F. I. KNIGHT, Chairman. DR. E. O. Otis read a paper entitled

SOME OBSERVATIONS ON HEALTH RESORTS.

(See page 316.)

DR. BARNES said that he had been much disappointed in the benefit to be derived from a change of climate to some of the most noted of our resorts. This was illustrated by the description of a trip made by a patient of Dr. Barnes's who was advised to go for the winter to Bermuda for a pulmonary trouble. He sailed from New York in a leaky vessel, stormy weather prevailed during the entire passage, and the patient was frequently drenched with salt water. A few days after arrival the patient was seized with rheumatic fever, and suffered much. He returned after an absence of six weeks, much worse than when he went away, and died a few days after arrival at his home.

As far as climate is concerned, in a health resort, there is no doubt of the necessity that the air shall be more or less humid. We keep our houses much too hot, and the air is far too dry for health or comfort. A house heated by steam is not comfortable unless the temperature be kept much higher than is necessary in a house warmed by open fires, and particularly if there be ample provision for moisture in the air of the room. The most comfortable room in our modern houses is the kitchen, because there is always a change of air going on from the frequent opening of doors, and the draught of the range. The teakettle is always on the range, and not more than 1000, three-fourths of whom would be furnishes a constant supply of steam, which makes the air moist, as proved by the frost on the windows. Plants will grow in the atmosphere of the kitchen, but they languish in those parts of the house which are supplied with steam heat, or with hot air from a furnace. In moist air, a temperature of 68° is very comfortable, while in air too dry, it is necessary to keep the temperature as high as 75° or 80° in order to feel comfortable.

Dr. A. H. Nichols stated that a recent hasty visit to the South enabled him to confirm the correctness of the statements contained in Dr. Otis's paper. It is a strange sensation to go in a few hours from a temperature of zero to that of 75°. The defect, however, of most health resorts is that the climate is not equable. This is especially true in the South. The climate of California is better in this respect than that of Florida, and that of Southern Europe is better than that of California. The ideal climate is doubtless that of Ovatava, in Teneriffe. The coldest weather ever known there compares with our June, while the warmest weather is much like our July with the warmest days left out. A very striking

feature of the climate there is the fact that the warm- most delightful place of residence. There is no maest period of the day is not at noon, as we are accus- laria in the town or neighborhood. The extreme tomed to observe in the United States, but at a time between the coldest temperature of winter and the before noon. During the middle of the day, a fog-bank rolls in from the sea and covers the land like a huge umbrella, thus effectually protecting the inhabitants from the extreme heat which would otherwise there for the benefit of his health, which was fully occur. . . . One fact in connection with the south- restored. He remained perfectly well as long as he ern parts of the United States is quite surprising, resided in this place, but he could not live elsewhere, that is, that in many places where one would expect to find malaria, the disease is unknown. This is true tions upon the meteorological conditions of the place. in particular at some points near the sea where the The relative humidity is a thing which is a source of air is humid, and we find most of the conditions usu- the greatest disturbance to many delicate patients. ally met with in malarious localities. The nearness of the sea, with the presence of iodine and possibly sea will be perfectly comfortable at an elevation of ozone, seem, however, to be the agents of protection 400 feet above the sea. to these localities from the poison of malaria.

little knowledge of the peculiar recommendations of which is often a cause of disappointment in the effect the various health resorts, yet it is becoming more and more evident that physicians must inform them- way in which patients are allowed to make the jourselves of the advantages of the different parts of our ney to the new abode. Very frequently a sick person country, so as to be able to give an intelligent opinion arrives without an attendant, he is not welcome, he and suitable advice to those needing a change of may not be able to secure good or comfortable acclimate for any purpose. There are no doubt many commodations, and he is entirely at the mercy of places as yet unknown, which possess great advan- those who may be willing to receive him. A case of tages as sanitary abodes, and the physician should this kind was known to the speaker, in the person of inform himself in regard to them, as a part of his a gentleman from Boston, now deceased. He came professional education. In Europe, the science of unattended and unknown, he was unable to secure sanitation has reached a degree of perfection as yet good accommodations, and was not comfortable durunapproached in America. Patients from our own ing his short stay there. Aside from this, he was in country cross the ocean to obtain the benefit of a a condition quite unsuited to travelling, and should change of climate, which our land, with its immense never have been sent from home. A patient may go area and variety of physical conditions, would surely to Santa Barbara at a certain stage of pulmonary supply.

harm which frequently results from the careless man- worse than useless to send a patient to Santa Barbara ner in which patients are sent away from home to after all the other resorts have been tried. These languish in uncomfortable and crowded boarding-cases will not be benefited by the climate of Santa houses, destitute of all the comforts to which they Barbara or that of any other resort. When a patient have been accustomed at home, and dependent upon has reached a certain stage of the disease, there is no the caprice and interest of hotel-keepers of all kinds benefit in change to any other climate. for everything pertaining to their welfare. Then, too, one is liable to be misled by the careless state-

of 1877-78 in Santa Barbara, which proved to be a and the accommodations wretched. Another objec-

and as a pastime he made a series of careful observa-Often a patient who cannot live at the level of the

In a case of this kind the humidity alone is vari-Dr. J. Aver remarked that although he had but able; all else remains unchanged. Another thing produced by residence at any health resort is the disease, and by a prolonged residence, never less Dr. VINCENT V. BOWDITCH spoke of the great than a year, may quite recover. It is, however,

ments of those who describe the various places of such as various parts of California, Nice, Cannes, resort. Thus, each locality is vaunted as possessing etc., allow the patient to choose exactly the situation the "ideal" climate, and other localities are misrepand the surroundings adapted to his comfort. The resented. Aiken has been highly recommended by country rises rapidly from the seashore to the hills, many persons, to the detriment of similar places so that an elevation of considerable magnitude may elsewhere. It is true that this town possesses the be attained at a short distance from the town, and advantages of high altitude and pine forests, and the within a short time from the sea-level. That it is not air is doubtless of exceptional purity, but even these the "humidity" alone, or even to any great extent, qualities are not adapted to all cases. While speak- is now generally admitted. The change of scene, ing of remote health resorts, we should not omit to the entire rest, the out-of-door life, and the relaxation mention those near at hand and which are easily ac- from all labor, are important factors in the amount of cessible. Thus, Wellesley Hills and Sharon are of benefit to be obtained from a stay at any health regreat service to many cases of pulmonary disease. sort. One of the most useful adjuncts to all the Other measures which may be adopted is exercise on requisites of a noted resort are attainable at a slight horseback. Given good food, rest, trees, music and expense of time, strength and money. Patients in suitable companionship, with the advantages of good both of these places often achieve most gratifying society, a sick person will often obtain great benefit from a stay at any proper resort. Throughout the Dr. E. L. Parks stated that he passed the winter South, however, the boarding arrangements are bad

tion to many, if not most "health" resorts is the enlargement of the glands of the neek which proved fact that one place after another fills up with phthis- to be not adenoma, but scrofulous in character. ical patients, there is often no suitable water supply, and even more frequently no suitable provision for drainage, and the entire place at length becomes charged with the disease, the rate of mortality rises, and the place is ruined as a health resort.

cover under more cheerful circumstances. Above could be obtained. all, in the present state of our knowledge of pulphthisical patients.

propriate change.

by taking judicious advantage of them.

altitude, but still a dry and tonic climate, should be visitors. chosen. It was unfortunate if a warm, moist climate had, for any reason, to be adopted.

DR. HERMAN F. VICKERY read a paper entitled

ENLARGED CERVICAL GLANDS.

(See page 313.)

local state of the neck.

illustrating another causation of this condition.

quickly, but soon after there was noticed a distinct culty in swallowing. About this time he became

Dr. Edward B. Lane read a paper entitled

TWO CASES OF CEREBRAL TUMOR, WITH AUTOPSY.

Case 1.- James M., 37 years old, was admitted tothe Lunatic Hospital August 3, 1885. Married; po-Dr. E. T. Eastman thought that the most import-liceman; was born in Ireland. Very little is known ant object to be attained is the comfort of the pa- of his family, since none of his relatives are in this tient. A sick person who is sent to a place where country. Used alcohol daily, would occasionally many consumptives are herded together, is quite drink more than he ought, but never incapacitated easily depressed, and may die from the moral effect himself for duty on the Boston police force. Is not of such melancholy surroundings. No doubt each known to have had rheumatism nor any severe illyear many persons die in such places who might re- ness previous to last January. No specific history

In January, 1885, he fell on the street, becoming monary disease, we should avoid the crowding of unconscious and remaining so for half an hour. Became conscious soon after reaching home but for DR. KNIGHT said that it was gratifying to see that more than a week his speech was thick and he swalphysicians had begun to use some discrimination in lowed with difficulty. No other paralysis was known. recommending climates. The discussion had been Went on duty a month later. Then his speech was mostly restricted to the benefit of change of climate much improved, but not quite clear. Continued to in pulmonary disease, but of course there were many perform his duties as usual until May, when he had other diseases which might be benefited by an ap- a second attack, this time in the house. Fell, but opriate change.

A great and beneficial modification of the custom and sat down. It was found that his right side was of sending all cases of pulmonary disease to warm affected, the hand and leg of that side being weak climates has taken place in recent years, a custom but not completely paralyzed. He was able to walk. which has arisen from giving too much consideration. His speech was not affected nor his ability to swalto what might mitigate the concomitant bronchitis. low impaired. No facial paralysis was noticed. He There is no doubt of the great difference in the phys- had no headache, either before or after this attack. ical properties of different climates, and no doubt Slept well and ate well. Regained the use of his that we can favorably modify pathological conditions limbs to a certain extent, but could not light a match with his right hand; could write, but his hand was In selecting a climate for consumptives, the pecu-tremulous. Returned to patrol duty in two weeks liarities of each patient should be considered, his and remained on duty until the middle of July, when temperament, the stage of his disease, complications, he had an attack of vertigo while on the street. Was etc. If permanent arrest of the disease is hoped for, sent home in a horse-car. Felt ill and stayed at Dr. Knight said that he was always glad if the pa- home until admitted to the hospital a fortnight later. tient's condition is such as to allow of the selection After the second attack (in May) became irritable, of a dry mountain climate of considerable elevation. and memory failed somewhat. Became suspicious If his peculiarities will not admit of this, then a lower that men talked with his wife, and that she had had

During the last two weeks at home his mental condition degenerated rapidly. Memory grew weaker. He was anxious to go to the Station-house, and would become angry, though not violent, when restrained. Delusions of suspicion developed. Thought there were men concealed in the house and he pro-Dr. John Homans thought that many other causes cured a pistol and billy to defend his wife. On admay exist for enlarged glands besides those mentioned mission, was seen to be a well-developed man of in the paper. Thus, rhinitis, pharyngitis, and tonsil- medium size. Too dull to respond to questions. litis may cause enlargement of the cervical glands. Was able to get about and use his hands fairly well. These are, however, the expression of a general sys- Right eyelid drooped. Pupils were equal, tongue temic condition, and are not dependent upon the protruded to right (probably accidental, as it afterward came out straight), not retracted. Eats when DR. BARKER mentioned the enlargement of the fed but will not feed himself. Will not stay in bed, glands of the neck following surgical operations as and soils the floor. Pulse 60. Patella reflex present. No enlarged glands. Denied syphilis. Eyes Dr. VICKERY said that the enlargement of the examined. Nothing unusual seen beyond a fulness glands seems often to be secondary to other condi- of the veins of the fundus. During the first week at of a fork, to a moderate extent. The prick healed answer simple questions. Had considerable difficomatose, with a temperature of 102.6, and respira- mm. in diameter. On section in the left nucleus caution 44. Left pupil dilated. He rallied to his for datus and in the left thalamus opticus were cavities mer condition in the house. He then gradually im- the size of small filberts, formed by a mesh-work of proved mentally until at the end of the second week fine lines and containing a snuff-brown fluid. In he knew his wife and conversed with her, and signed the posterior portion of the right thalamus opticus some documents. But at no time did he realize were two cavities each about the size of a filbertwhere he was nor avoid wetting his bed. When meat, and presenting the same characteristics as those asked to put out his tongue would do so after wait-described. The section of the hemispheres, pons, ing nearly a minute. Memory was very weak, would medulla and cerebellum showed no appearance not know his room but would wander about, upset-worthy of special note. The pia everywhere readily ting furniture, etc. After being in hospital a month separated from the brain substance. Heart and perchatted with him. Told him that he had been on his beat that day. Difficulty in swallowing almost yound diffuse bronchitis and tracheitis, chronic pleurentirely disappeared and he ate heartily. At this isy and a nodule in the mesentery. There was a time patellar reflex was found to be excessive and scar on the penis. ankle clonus present. Said he was "first-rate." About the middle of September (six weeks after ad-lepto-meningitis and cedema of the pia, each to a mission) rapidly grew dull, swallowed liquid with dif-ficulty. In a few days febrile action appeared. Was "apoplectic cysts" of the basal ganglia. Chronic very obstinate, resisting everything done for him, ependymitis. fumbled the bed clothes and handled his genitals Respiration persisted rapid, gradually rising from 30 Boston Lunatic Hospital September 3, 1885. With to 50. Was very helpless, could scarcely swallow, her was sent the statement that she had been hemi-

the sinuses contained dark fluid blood. The pia patient much grief and worry. Since death of husslightly opaque about the convexities. Its meshes contained a small amount of clear fluid. The brain pea, and surrounded by a reddish-gray translucent answer a few simple questions. material like that already described. In the lowest portion of the left temporal lobe at anterior extremi- unintelligible answers. Took a small amount of lity were several yellowish nodules about two mm. in quid food when it was placed in her mouth. Could diameter, surrounded by a reddish-gray translucent not eat, and swallowed liquids with difficulty. Was tissue. At the junction of the anterior and middle noticed to call things by wrong names. At the end thirds of corpus callosum and on the adjoining convolution in the anterior fissure were a series of yellow helpless, could swallow a little better and could speak nodules of two or three mm. in diameter arranged more distinctly. It was now seen that she was parantero-posteriorly, forming a line about four cm. tially amnesic; more accurately speaking, she was in length. These were in turn surrounded by a almost totally unable to recall names. It was usually similar reddish-gray translucent material. The lat-impossible for her to name objects. She could not eral and fourth ventricles showed in the ependyma even recall her husband's name. Was aware of her numerous fine granules presenting a warty appear- defect and seemed much annoyed by it. When ance. The floor of the left lateral ventricle over the asked to name a bunch of keys she said "I cannot," basal ganglia showed two depressions about twenty then made an effort and pronounced "boots," and

was able to be dressed, saw an old acquaintance and icardium showed nothing worthy of note. Examina-

Diagnosis of lesions found in the brain. Chronic

Case 2.-Mary J., 64 years old, of American paconstantly. Temperature varied from 99° to 103°, rentage, a cloak-room attendant, was admitted to the and was so dull he would not speak, and in eighteen plegic for nine days. That she was at times inco-days from the onset of the stuporous condition died. herent and confused. Was helpless and needed hos-Antopsy twenty hours after death by Dr. Gannett. pital care. After her death the following history was Ratio of head to body and cranium to face, normal. obtained: Family history unknown. Seventeen Calvaria thin. The dura everywhere translucent and months ago her husband died and his loss caused the

filled the cavity of the skull and weighed 1402 grms. headache and loss of memory, and when alone in her The vessels at the base and in the fissure of Sylvins room would continually talk aloud to herself. Apshowed nothing remarkable. The pia anterior to the petite was good. When not mindful of her loss was optic commissure showed a slight snuff-colored ap- as cheerful as ever. Continued to attend to her dupearance, and on section showed several opaque ties in a cloak room and to her household duties until grayish-yellow globular nodules, varying from one to eight or nine days before admission. No serious three mm. in diameter, and each surrounded by a sickness was suspected until she was found one morngravish-red translucent tissue for a distance of three ing to have right sided hemiplegia, to be almost to four mni. These were directly continuous with speechless as well as perfectly helpless, having been the pia. On the under surface of the right frontal apparently as well as usual the day before. On adlobe, adjacent to the pia, was a nodule the size and mission to the hospital was seen to be a very large, shape of an almond, except not quite so long, having well-nourished woman. She was helpless, having an opaque grayish-yellow centre the size of a large right sided hemiplegia. Was very dull, but would

For four days after admission was dull and gave of this time she became brighter, was not quite as laughed at her failure. Was then told to say "keys." She made another effort and said, "that is right,

<sup>&</sup>lt;sup>1</sup> His mental condition was that of contentment. Speech was that of a general paralytic. No delusion of grandeur was expressed.

been vomiting. only twenty-four hours, and during the following day revealed nothing of interest beyond a large cyst ocshe gradually grew brighter and was as well as before cupying the upper third of the right kidney, pelvic use both hands a little. Required to be watched or vascular glio-sarcoma. she would lie uncovered. Gave no reason for it. Summary.—In the first case, we have a young man Was at this time asked if she were hungry and she with cerebral syphilis resulting in paretic dementia. was at this time asked if she were nungry and she said "yes;" was asked if she were thirsty and she said "yes;" and to test the truth of her statement the disease was unusually rapid. The hemiplegia was given bread and milk. Declined it, saying she wanted something "brighter." She seemed aware she had not said what she meant. When asked if she matous tumors, as the hemorrhage in the caudate matous tumors, as the hemorrhage in the caudate would prefer water seemed pleased and assented, nucleus and the lepto-meningitis are the lesions more At another time asked for "fire," and then shook her usually associated with such symptoms. No special head. When asked if she meant water, said "yes, set of symptoms can be referred to the tumors. fire," and laughed at her blunder. When "water" was slowly pronounced she repeated "w-water." large tumor must have been gradually developing in Memory was much impaired; she could not rememt he mass of the cerebrum, causing for a long time ber whether she had eaten two hours after doing so. only minor symptoms. A woman able to do her On the seventeenth day, and a week after the brief daily work, neither general nor mental health being period of coma, the patient grew more dull and help-sufficiently impaired to attract attention, suddenly less. Would not swallow liquids, and gradually be-becomes comatose and hemiplegic. She recovers came comatose, sweating profusely and occasionally consciousness and suffers two more relapses of coma vomiting a greenish watery fluid. Pulse was strong, and dies. During the intervals of consciousness she but uneven and rapid. Respiration was labored and is seen to be suffering from a partial amnesia. Amnoisy, tracheal râles persisting until death. She con-nesia (oftener partial than complete) has been found tinued in this coma five days, death being hourly ex- to be associated in cases reported by Werwicke and pected. Died on twenty-third day.

by Dr. Gannett. Nothing unusual was observed an aneurismed dilatation causing the symptoms. about the calvaria or dura. Sinuses contained soft This is hardly tenable when we consider the great excoagula. The convolutions of the brain flattened tent of pressure required to cause both hemipleria and sulci obliterated; surface of pia dry. The brain and amnesia. The vascular changes in the tumor completely filled the cavity of the skull and weighed must explain the suddenness of symptoms. 1550 grms At a point in the left fissure of Sylvius DR. J. J. PUTNAM stated that cases of tumor of the where the middle cerebral gives off its numerous brain often present no definite or recognizable group branches, was a dilatation the size of a pea. At a of classical symptoms, by which their location, or corresponding position in the right side was a paried size, or frequently their existence, even, may be detal dilatation the size of a pin's head. In the basilar termined. Dr. Putnam mentioned a case seen in artery was an opaque yellow patch in the intima consultation with Dr. Adams, of Watertown, in which about three mm. in diameter. The right lateral and almost all the tissue of the pons was replaced by a fourth ventricles showed nothing remarkable. The large vascular glioma.

skewers," and laughed again. But on being prompt- floor of the posterior portion of the left lateral vened a second time she pronounced "keys" properly. tricle was elevated, rounded and quite tense to the Physical examination showed the right sided hemi- finger. On section of the hemispheres there was plegia to persist, mouth was drawn to the left, tongue found in the white matter of the left hemisphere poswas protruded, straight, however; left eye was turned teriorly a rather firm opaque grayish-yellow nodule, in, showing probable paralysis of the sixth nerve on the size and shape of a medium-sized peach, showing that side from pressure; pupils were even; plantar on section here and there spaces filled with a thin reflex present. Ophthalmoscopic examination was cream-like fluid. The brain substance on the periphimpossible. Remained in this condition, conscious, ery of the nodule for a distance outward of about but dull and listless, for two days. Did not ask four mm. showed to a very slight degree a punctate where she was nor seem disturbed by her new sur- appearance. The white matter lying just beneath roundings. She continually complained of thirst, the nodule was of soft consistency and grayish-white She became more dull on the ninth day, and on the color. The white matter in general was rather pale, morning of the tenth was found comatose. Had surface of usual degree of moisture, the cortex not Made automatic movement with remarkable. Section of the basal ganglia, pons, meleft hand only. Pupils were much contracted and dulla and cerebellum showed no appearances worthy pulse was 96, temperature 101.5 (P.M.). Coma lasted of special note. Examination of the other organs the attack. Condition of side, however, did not im-calculi, and two firm gray nodules the size of a pea prove. She gradually grew more intelligent and for in the wall of the uterus. A pedunculated polypoid a short time knew where she was, but probably did tumor in the cavity of uterus. Microscopic examinot realize the significance of it. Remarked that nation of the tumor has been begun by Dr. Gannett, she must be a difficult patient to care for, she was so but owing to the hardening not being yet completed, heavy and helpless. She became more restless, and he is unable to give a definite opinion. He has would kick the bedclothes off with left leg. Could kindly consented to offer the probable diagnosis of

The second case was remarkable in the fact that a others, with lesions in the occipital lobe. The ques-Autopsy was made twenty-two hours after death tion might arise as to the possibility of there being

Dr. P. C. Knapp asked the seat of the tumor?

is of any avail in cases of cerebral syphilis?

any form of treatment.

ment in such cases.

be benefited.

Dr. Putnam added that in the early stages of congestion, before deposits of syphilitic growth have taken place, it may be possible to improve the patient's condition. When chronic paralytic dementia has occurred there may well be no improvement from any mode of treatment.

DR. KNAPP added that in cases in which any mental derangement exists there is no hope for any form

of treatment.

#### CHICAGO GYNÆCOLOGICAL SOCIETY.

Stated Meeting, Friday, January 15, 1886. THE PRESIDENT, DANIEL T. NELSON, M.D., IN THE CHAIR.

W. W. JAGGARD, M.D., EDITOR. (Continued from page 304.) Dr. E. J. Doering read a report of

A CASE OF HYDATIDIFORM PREGNANCY.

After a brief discussion of the etiology and pathology of cystic degeneration of the chorionic villi, Dr. Doering related the history of the following case:

Mrs. W. D. P., a cultured lady, of slender physique, 21 years of age, was attended by me in labor fifteen suddenly seized with a severe chill, followed by the months ago, and delivered by instruments of a healthy usual symptoms of septic poisoning, high temperature boy weighing ten pounds. Her general health has (1041/2°F.), rapid and feeble pulse, superficial respirabeen good. She has had no miscarriages either previous to or since the birth of her child. Her last lochia, with no pain or tenderness over the abdomen. period occurred during the latter part of October, remained absent, which she attributed to a cold, the idea of pregnancy not occurring to her, as she had none of the usual symptoms. During the month of injections was followed by the most gratifying results, ing the holidays, she was on her feet constantly all recovered sufficiently to be declared out of danger. though not feeling well, having sensations of chilliness, At the present time, eighteen days since the expulsion followed by a feeling of heat and general depression. of the mole, the patient is up and about the house, On the Sunday before Christmas a slight and painless with a good appetite, and making preparations to flow of blood commenced, believed by her to be the leave in a week or two on a journey to the South. period, now four weeks overdue. The flow continued several hours and then ceased. On Christmas day, and while he had been surprised a great many timeswhile seated at the dinner-table, she was suddenly in his practice, he was never more so than upon one attacked with a profuse hemorrhage, the blood saturat- of these occasions. He had been in practice about

ing the floor, and continuing until a degree of faint-DR. LANE stated that it was seated below the basal ness was produced, in which condition I found her on ganglia, and was evidently pressing upon the crus my arrival a few minutes afterwards. The hæmorrhage, which had been entirely without pain, ceased Dr. Cushing asked if the early recognition of the suddenly. A careful examination confirmed my susdisease and its treatment by anti-syphilitic measures picion of pregnancy, although I was much surprised at the size of the uterus, corresponding to a four and DR. LANE stated that no case is known in which the one-half months' pregnancy, the fundus rising nearly syphilitic lesion in the brain has been benefited by midway between the symphysis pubis and the nmbili-There being no further hæmorrhage, no pain DR. Goldsmith has never seen a case of improve- and no dilatation of the os, an expectant plan of treatment was pursued by instructing the patient to DR. PUTNAM remarked that probably that does keep in bed, enjoining absolute rest, and giving her a not mean that no case may be relieved by treatment, few doses of morphia. On the following night an-DR. Lane stated that no case in which the disease other hæmorrhage occurred, but of not much conwas of a sufficient degree of severity to require treat-sequence, and requiring no interference. Two days ment in an insane asylum had ever been known to later, on the morning of the 28th of December, another hæmorrhage took place, more copious than the last one, but still unaccompanied with pain. An examination showed slight dilatation of the os, but not sufficient to permit the recognition of the contents of the uterus. As the patient was beginning to show decided symptoms of aniemia, the vagina was tamponed and ergot administered to check the hæmorrhage and favor uterine contractions.

Uterine pains soon commenced, accompanied by considerable hæmorrhage; the os dilated fully one inch, the presenting part giving the sensation to the finger of a blood-clot. This was soon expelled in detached portions, and on removal from the vagina was readily recognized as a hydatiform mole, having. all the characteristic appearance of a grape bunch, composed of a mass of translucent vesicles, about the size of currants, containing a clear, limpid fluid. After inserting two fingers into the uterus and emptying it as thoroughly as possible of all the diseased tissue, the hæmorrhage promptly stopped. The entire mass removed equaled about the size of a large orange. Some febrile reaction occurred, but for several days the temperature did not exceed 100 1/2 F°. and the pulse 95, the treatment consisting of quinine and ergot, internally, and the use of uterine and

vaginal injections of carbolized water.

On the beginning of the fourth day the patient wastion, great tympanites, thirst, vomiting, and arrested-The outlook was anything but promising, but the 1885. During the month of November the catamenia prompt administration of large doses of quinine, combined with diaphoretics, turpentine stupes, warmformentations, and the continued use of antiseptic December, and particularly during the week preced- and after four days of great anxiety the patient had

Dr. C. W. Earle had seen two cases of this kind,

two years, when he was called to attend a lady in tracted well and firmly, diminishing the size of its confinement near his residence. He placed him cavity rapidly, so I was sure when it was empty. self at her bedside, found the os uteri well dilated, with the membranes intact and well down in the remained in bed one day, but the next morning prevagina, when all at once there came a gush of something, and a large quantity of these grape-like bodies made their appearance. He immediately gave ergot and cleared out the uterine cavity, and took the first opportunity to repair to his study to seek an explanation of this, at that time, to him a strange phenomenon. The case was eventually made the subject of a short in the mass. Small doses of ergot were given for a article which appeared about that time in the Chicago few days. Menstruation was established in Decem-Medical Examiner.

The lady was anæmic, and made a slow but perfect recovery. She has enjoyed good health since, but cago Medical College, 1878), entitled:

has never again become pregnant.

Dr. HENRY T. BYFORD had had an opportunity to see this specimen, and it was very much like a banch of grapes in shape, although Barnes, he believes, claims there is no such resemblance. But he bases from each other instead of from the common stem.

In regard to the treatment, he thinks it would now ployed, and drew the following conclusions: be considered best to scoop out the uterus to prevent septicæmia, and so it would be, if that could be easily From inquiry of Dr. Doering, he understood the opening in the cervix was rather small, the body anteverted, and it would have been necessary to use an instrument in removing the mole. He had seen severe inflammation, in the broad ligaments, result dull curette. interest well illustrated in this case, that it is not in every instance the proper thing to do; especially firm tonic contraction of the uterus.

say he used ergot. This might explain the fact of of the glottis.

finding the cervix closed.

Dr. Doering: I would like to ask Dr. Earle the tracheal tube. whether he discovered any trace of the fœtus.

Dr. Earle: I did not in my case, but there is a specimen in the museum of the College of Physicians course through the upper air passages, and there is and Surgeons in which the feetus is one and one-half less danger of pneumonia.

inches long.

Dr. Charles Caldwell: I met with one case in my practice last fall. October 10, I was called early in the morning, the messenger informing me his wife was having a miscarriage. I found my patient flowing quite profusely. She supposed herself five months pregnant, as she had not menstruated since ghastly wound to heal by slow granulations. The last week in July, she flowed slightly for two days. The 12th of August, the flow commenced again, and was so profuse that she went to bed and called a physician, who diagnosed her case threatened abortion, and treated her accordingly, keeping her in than tracheotomy. bed two weeks. From that time until the hydatidiform mole was expelled the flow never stopped com- is the difficulty of its performance." pletely, for a single day, but she passed no pieces of the mole. The os was soft and easily dilated. I in- ject of exceeding interest, and deserves great attentroduced two fingers into the uterine cavity and re-tion. Tracheotomy was one of the few operations moved its entire contents. The mass was too large that always made him nervous. That this operation to be removed intact, and the os was not sufficiently is attended with some danger there is no question.

The lochial discharge kept up for three days. She pared her husband's breakfast, and has attended to her household duties since. There were no symptoms of septicæmia following. The broken mass would have filled a two quart measure. Some of the cysts were as large as a bean. I gave Dr. Jaggard a specimen to show to his class. No feetus could be found ber, and the patient is now strong and healthy.

The inaugural thesis of Dr. F. E. WAXHAM, (Chi-

"INTUBATION OF THE LARYNX, WITH HISTORY OF CASES,"

was read by Dr. Edward Warren Sawyer.

Dr. Waxham described Dr. O'Dwyer's method of his views upon the fact that the vesicles are developed intubation of the larynx, narrated the histories of seventeen cases, in which the method had been em-

"Intubation of the larynx possesses many advan-

tages over tracheotomy:

"I. No opposition is met with on the part of parents and friends; quite a contrast to the difficulty with which we usually meet in obtaining the consent to tracheotomy.

"2. It relieves the urgent dyspnæa as promptly from curetting the uterus after abortions, with the and as effectually as tracheotomy, and if the child Therefore, he thought it was a point of dies there is no regret that the operation was performed, and no discredit is attached to the physician.

"3. There is less irritation from the laryngeal tube when so much has been passed that there is pretty than from the tracheal canula. As the tube is considerably smaller than the trachea, it does not press Dr. H. P. NEWMAN: I understood Dr. Doering to upon it firmly at any portion excepting at the chink

"4. Expectoration occurs more readily than through

"5. As the tube terminates in the throat, the air that enters the lungs is warm and moist from its

"6. It is a bloodless operation.

"7. It is more quickly performed and with less

"8. There is no open wound that may be the source of constitutional infection.

"9. Convalescence is more rapid, as there is no

"10. The patient does not require the unremitting care of the physician, as in tracheotomy.

"11. I believe it to be a more successful method of treating croup, either diphtheritic or membranous,

"The only objection to the operation of intubation

Dr. Christian Fenger said that this was a subdilated. As I removed each piece the uterus con- There is danger from hemorrhage during and after

tubation-which he looked forward to with great teaching the scientific branches. interest-he was afraid of the tubes slipping into the air passages, so that the operator could not get hold the wards, and on a bed (instead of a table), drawn of them again. That is one thing, and another that out in the middle of the room. This is, of course, came into his mind was the small calibre of the open. very awkward and embarrassing to the patient, who ing in the tubes. He had an opportunity to see a little child that he operated upon where the operation was easy, and relief was instant, and that is all he has seen as yet of the matter. Then, of course, he read the paper. There is one thing that he would be rather afraid of,-but that is a theoretical objection only,-that is, to leave the child without taking the tube out. It seems from the cases reported, however, that in those cases there has never been much trouble of this kind, and theory of any kind is of no value several days, and I was very kindly invited to see the whatever compared with facts.

He believes that this matter is very worthy of careful consideration; but, on the other hand, not until a larger number of cases have been tried will we be desirous of having this new matter tried.

Society.

## FOREIGN CORRESPONDENCE

LETTER FROM NAPLES.

(FROM AN OCCASIONAL CORRESPONDENT,)

The Hospitals and Clinics of Naples-The Medical Students-The Cost of Medical Education-Operations in the Hospitals-Systems of Medicine-Development of Blood Crystals—The Cholera Bacillus—Neapolitan Medical Men.

the operation, and there is some danger of shock, ance and variety of clinics supplied from a populawhich, in cases where there is no membranous laryntion of city and suburban villas of near 800,000 souls. gitis, sometimes can be traced only to the operation. Her hospitals are not to be commended for beauty For instance, he years ago went to make an exam- of architecture nor for convenience and well-ordered ination of an old man who had swallowed a little fish appointments internally, but for room I have seen bone, that had got into the mucous membrane in the nothing in America or Europe equal to them. There entrance to the larynx, during dinner. (Edema of are medical students here from all parts of the world, the glottis necessitated tracheotomy, which was performed without an anæsthetic. There was no hæmorrhage, the dyspnœa was relieved, but the man died the world, and should command a very high position about twenty-fours afterwards from the shock and in point of education as well as commerce. There disturbance attributable only and alone to the oper- are over 300 professors in the university, and the ation. In other cases hæmorrhage, even under great | medical faculty represents the very best of professioncare in the operation, cannot always be avoided, al talent and experience. I am informed that stu-He has had two cases of such hæmorrhage where the dents pay 40 francs (\$8.00) each year to the governpatients have died, one in two hours and another in ment for tuition, and, at the end of 6 years, 20 francs five hours subsequent to the operation, not on ac-additional for tickets of examination and graduation count of the amount of hæmorrhage, but on account -the professors being employed at stated salaries by of the disturbance in the lungs, caused by a moderate the government. A group of students with a professamount of aspirated blood. So, if it is possible to or lecturing to them, all with their hats on, seated get around the tracheotomy in some other way, then on benches arranged in a square in the wards among he for one would embrace it with the greatest of the patients, is to be seen almost every morning. pleasure. However, when he saw Dr. Waxham's in. Separate lecture rooms, however, are furnished for

With few exceptions, operations are performed in sees and hears everything about the preparation for the operation, and in a Listerian consideration of antisepsis is not commendable. Although antiseptic treatment is recognized and seems to be appreciated, in application it is not at all understood. To give an instance: Dr. Dattelo, one of the finest operators I ever saw handle a knife, refused to operate for osteo-sarcoma on a little boy unless a separate room was furnished. This was granted after operation. In the middle of a room 12x18 is a rickety, single, low bed (no operating table) with hnen coarse and soiled, holding a little 8 year old boy with an ugly tumor on the left temple extending forwards able to form any definite opinion about it. But we and into the external canthus of the left eye. Terriknow enough from the cases recorded here to be fied at the approach of 10 or 12 students, professors, and nurses, he began to cry-opening out instru-Dr. F. E. Waxham was then elected Fellow of the ments and putting on white aprons only added to the child's fears and agony. Ether was finally brought and administered by force out of a kind of reticule or bag, the surgeon being compelled to perform the operation in an uncomfortably stooping position, the bed and clothing receiving the blood not taken up by sponges. The ceiling of the room was badly soiled by leakage, and plenty of dirt lay, half swept in the corners, and on the window sill. I thought it a pity for the patient, and that the science, and the results of a skilful operation should thus be jeopardized. Two days after, however, the patient was doing well with no evil signs about the wound.

From what I could learn in practice a disposition to adhere to systems prevails to a much greater ex-Medically and surgically Naples is in many re-tent than obtains in America. It is not only the spects very interesting to a physician. She has hos- Neapolitan system, the Milan plan or the School of pital capacity for from 3500 to 4000 patients divided Pavia, but it is a system of a celebrity. For example, into 14 different hospitals, besides the greatest abund-injections hypodermically of corrosive sublimate, for

so many days, followed by unction with Neapolitan mercurial salve with sulphate of quinine internally, seems to be the beau ideal Neapolitan system of treating syphilis under all circumstances. Titles are not so important anywhere as in England. The steward even of the hospital would seem indignant if you said doctor or surgeon Lester, instead of saying "Sir Joseph"-indeed, American independence of thought, action, and manners even in medicine can find no prototype on this side of the Atlantic, but less attention in Naples than anywhere else seems to be given to titles. Doctor or professor is enough here for all practical purposes. Dr. Fienga is the microscopist, author of a work on physiology, and several monographs on various subjects. He has a very extensive cabinet of microscopical specimens, physiological and pathological, prepared by himself. To the German (Teichman) method of developing the crystal "emina" of blood by adding salt and acetic acid and heat to the boiling point, he adds Canada balsam and turpentine, and thus makes the test more delicate, bringing out the characteristic crystal from a much smaller stain of blood. The boiling point is very simply obtained by holding the plate over the blaze of a spirit-lamp until the drop of prepared fluid between the glass plates becomes white, like steam. The doctor very kindly showed me the process, using material from a stain said to be 14 years old. He says one can study in two hours all away, and his precautions were not observed. In that is to be learned microscopically of the cholera 1854, 4,393 confinements; 40 deaths. During this germs, and he showed me various specimens of the year, these details were enforced. The statistics of microbe in its different states of development, taken Prag are still more remarkable. From 1865 to 1874 from various parts of the body, and from the alvine the old building was used, which was entirely unfit discharges. The doctor is an enthusiastic investigat- for purposes of hygienic detail, and the mortality was or and a hard worker, as is also Dr. Scibbelli—the 6.67 per cent., as follows: latter having for his specialty, obstetrics and the morbid anatomy of the pelvis. He also has one of the most extensive private museums of specimens I have seen.

Dr. Novo is professor of gynæcology, and a noted author. He, Scibbelli, and Fienga presented me with copies of their writings, and I leave Naples with the kindest feelings towards the doctors. I shall ever feel under obligations to Dr. Conic for his almost undivided attention. He is a worthy young man of the mortality fell to 0.65 per cent., as follows: much promise—the more so, because he soon moves to the Western States of America, where he will have room to spread himself. To straighten the leg of an asteoplastic knce-joint in Edinburgh, they divided the patella and removed a v-shaped section of the joint, and reunited the patella by wire. Dr. Lester (Sir Joseph) of London, removed entire the patella, and in Naples they use Rizzoli's lever-screw instrument which tears assunder the plastic bones. For pathological section of the University Museum here, the excessive practice of some eminent practitioners, in the National Museum are surgical instruments an antiseptic fluid, even in cases of normal labortaken from the ruins of Pompeii, speculums, catheters, forceps, scalpels, etc., just like ours of this age. before an examination is made; attention to attire, A. B. T.

#### LETTER FROM VIENNA.

(FROM OUR OWN CORRESPONDENT.)

Mortality from Puerperal Fever Before and Since Antisepsis-Parametritis and Perimetritis-The International Medical Congress.

In a recent letter I reviewed the practice of the Vienna school in relation to puerperal fever. I wish now to give some statistics of mortality before and after the introduction of antiseptic precautions.

Paris-1829- Maternité-Confinements, 2788; Mortality, 252.

Vienna-1823—During the epidemic of puerperal fever in February,
March and April of this year, there were 698 confinements, of which 133 died.

1842—There were 3287 confinements, with 518 deaths,
1846-4010 confinements, with 450 deaths,

In May, 1847, Semmelweise published the results of his investigations, and urged upon Prof. Klein, in whose clinic he acted as first assistant, the necessity of washing the hands in chlorine water before examining lying-in women. Prof. Klein laughed at his assistant, but gave the order. Semmelweise's paper was badly received, and he himself was regarded as a medical crank. See the results:

1846	.Confinements	3352	Deaths	459
1847	16	3275	1.6	176
1848	4.6	3556	61	45
1840	+ 6	3858	66	103

This was the year in which Semmelweise was sent

Year.	Births.	Deaths.	Per cent.
1865	2576	239	9.28
1866	2673	125	4 68 °
1867	2368	115	4.98
1868	2712	245	9.04
x869	2505	291	11.62
1870	2249	96	4.27
1871	2329	72	3.08
1872	2210	115	7 01
1873	2189	168	7.67
1874	2346	102	4-35

At this time the new building was completed, and

III OI COILE	1011 60 0.03 1	ca constigues	101101101
Year,	Births.	Deaths.	Per cent.
1875	2180	60	2.75
1876	2627	30	1.14
1877	2704	34	1.26
<b>1878</b>	2776	45	1.68
1879	3010	11	0.36
1880	2813	13	0 46
1881	2927	7	0.24
1882	2:)63	7	0.24
1883	1 2900	7	0.24
1884	2886	7	0.24

These figures must convince any thinking man not the removal of stone, they also use here Rizzoli's only of the value of absolute cleanliness in obstetlithotrotome, which, they claim, reduces the opera-rical practice, but of the importance and necessity tion to a child's play of 42 seconds' time. In the of antisepsis as I have previously described it. Not may be seen real one-eyed Cyclopian monsters, and that would enforce uterine and vaginal irrigation of so that the obstetrician should not wear in the lyingin room the same coat which has followed him in his many daily calls. The practice of this school speaks metritis." In the former instances only the infra or of excellence in the building itself.

ive and thorough work that I know of. I am graduljust what is meant by pelvic connective tissue. ally being convinced, by actual observation and constant study, that Emmet's statement is too absolute, and that in many cases the two diseases are entirely separable. This becomes more plain to me as I advance more logically in an anatomical survey of the para- and perimetric tissues. I do not disguise the fact that even here in Germany, in the polyclinics, the mistake is often made of confounding the two, and that the nice differential points insisted upon by Freund are often lost sight of, and I also realize that two; but I do believe, and that thoroughly, that there are other and many cases in which it is not difficult to make the diagnosis. At least seventy-five per in Berlin and Vienna, have suffered from acute or chronic inflammations of this sort, and without any seen in the neighborhood of a thousand such cases. have studied in these schools, and who remember parametritis," but where the tenderness and objective can will make an effort to attend the coming meeting.

volumes, and meets, for so it seems to me, every in- middle cervix will be fixed-partially or wholly-in dication of exactness without being meddlesome. the latter, the fundus itself will suffer. Just so we When one compares the low rate of mortality with may have a para-cystitis, or a para-kolpitis, or a parathe indiscriminate examinations made by students prokitis. In the connective tissue itself the points and visitors, and bears in mind the unsuitable condition of the building in which both Professors Braun each other, they may not reach the peritoneum, and and Spaeth have their material, the results are simply they may be absorbed rapidly. Perimetritic exudamarvellous. It proves that antiseptic obstetrics, tions are situate higher up than those of the paromeunder the most unfavorable conditions, is infinitely trium, and are attended with an entirely different preferable to any other form of obstetrics, even symptomatology. The fornix vagina is not flattened coupled though it may be with every hygienic detail out in perimetritis, as it is in parametritis. Perimetritic exudates are generally situated high up in the Parametritis and Perimetritis.—I long held with posterior cul-de-sac, as one would expect to be the Emmet that the distinction between these two inflam- case. The collum uteri is fixed in parametritis, and matory conditions was really without any difference, in endeavoring to move it the patient will complain and that clinically they could not be differentiated, of pain, which is not the case in perimetritis. In For sixteen months I have labored faithfully in this short, there are many points of difference between direction, both in Berlin and in Vienna, and have the two, which have been made equally plain to some availed myself of enormous material and of every other gentlemen who have been associated with me other possible means to enter intelligently into the in gynecological studies abroad. One must see and nice discrimination made by German gynecologists. study both forms, at every stage of development, and To this end I made a close study of the connective must examine by rectum and vagina. Examine estissue of the female pelvis, without a thorough knowl- pecially the base of the broad ligaments and the edge of which no gynecologist can ever hope for a cul-de-sac of Douglas; also the left lateral fornix logical conception of para- or perimetric inflamma- (which is a favorite habitat of perimetritis). It took tion. To those wishing to make similar investiga- me many months before I learned exactly where to tions I cordially commend Freund's "Gynäkologische place the inflammation, but the knowledge came with Klinik," Strassburg, 1885, as being the most exhaust- experience, and from a thorough comprehension of

I hear of many medical men in Berlin and Vienna who intend coming to the Congress. A. R. B.

## DOMESTIC CORRESPONDENCE

#### INTRIGUE IN THE ASSOCIATION!

To the Editor of the Journal:

Dear Sir:—The following extract is taken from the in some cases it is really impossible to separate the Nashville Journal of Medicine and Surgery, of February, 1886, and reprinted in the Medical News, of February 27:

"Of late years this Association has appeared to cent. or more of all the women that I have examined degenerate into a body merely medico-political, and it is time something should be done to elevate it to a proper standard and make it what the British exaggeration I think I may safely say that I have Medical Association is to the profession in England, representative and national. Political intrigue and This will savor less of Munchausen to those who trickery have too long held sway in this Association and it is time the profession should see to it that it that in Vienna alone, in two touch courses per day, be no longer thus degraded, and be brought back one may examine from twenty-five to forty-five to the place it occupied in its palmiest days. From women. I have learned to count largely upon the year to year the meetings have become less and less salient characteristics of subjective as well as of ob-important in a scientific point of view, and it is jective symptoms. In the large majority of instances time every true physician should individually strive -nay, more, according to the anatomy of the parts, to change its downward course. If some change is it must be so that in every instance where the symp- not soon effected, the Association will cease to exist toms are relegated to a point just behind the cervix, and the profession will turn its attention to the sepawhere the connective tissue is situate around the rate special Associations which are all now in a flourinfra-vaginal portion, the disease is a "posterior ishing condition. We hope, therefore, that all who

symptoms are higher up in the fornix, where the peritoneum dips down, we have to do with a "periover the list of names that have figured largely in the

meetings of the American Medical Association within an indefatigable laborer in the field of Medical Scithe past few years, of whom I need mention only ence, and for half a century has been one of the most those of Drs. Marion Sims and Samuel D. Gross, he accomplished teachers and writers in the profession. certainly could not have had the effrontery to parade such nonsense before an intelligent profession. The portions of our country, enabled him on his settling founders of the American Medical Association have in New York City, at once to take the foremost place conferred a lasting benefit upon the American Med- in the profession. As a consultant, he was without ical profession, but during the last few months its a peer; his calm judgment, urbane manners, and strict enemies have made every effort to destroy its useful- conscientiousness made his presence ever welcome ness. Doubtless an effort will be made at the coming to his brethren. As a gentleman, he will be held in meeting in May to degenerate the Association into a grateful remembrance by all with whom he came in medico-political meeting by the very men who have contact; his charities were proverbial. so roundly abused it, but it is to be hoped that the better element which has hitherto guided its counsels especially occurring at a time when his deliberate will succeed in preventing the disaffected element of counsels are most needed. We can never forget that the profession from impairing the usefulness of the genial countenance, those cheerful words, and that Association. Its influence for good has been felt from buoyant disposition, which, amid the greatest of sorthe St. Lawrence River to the Gulf of Mexico, from rows, always pointed out the ray of light affording hope. the Atlantic to the Pacific Ocean; and the man whose spleen finds vent in the above quotation is, in the ceased, it is earnestly hoped that you will attend the opinion of the writer, an enemy to the medical pro-funeral services at Christ Church, corner of 35th I am. etc., fession. Tecumseh, Mich., March 1, 1886.

#### A NAVAL INEBRIATE ASYLUM.

TO THE EDITOR OF THE JOURNAL:

Dear Sir:- l am much struck by Dr. Frederick Horner's paper, "A Plea in Behalf of a Hospital for Naval Inebriates," in The Journal for March 6. pear in the next issue of The Journal. It is especially painful to infer that the sober men are inferior to the bulk of their comrades, for we are told that "apart from inebriety, these are in all respects the best and most intelligent men in the service." In every rural community there is a drunken medical practitioner who is "the best doctor in town, if you can find him sober!"

We may grant that inebriety is a disease, but it is one the causation of which is so well known that its victims are as inexcusable as those of syphilis. Let the cadet and midshipman know that prompt dismissal will follow the first detection of the drinking habit, and there will be no occasion either to cashier or send to an inebriate asylum a valuable and experienced officer at a later date. Let the Navy cease to be a school of inebriety, and spare the nation the disgrace of a Naval Inebriate Asylum. Teetotally yours,

IRVING W. SMITH.

Charles City, Iowa, March 10, 1886.

## NECROLOGY.

AUSTIN FLINT, SR., M.D., LL.D.

following was unanimously adopted:

Whereas, It has pleased God to remove from our Association our beloved and highly honored friend, Professor Austin Flint, M.D., LL.D., one of our Founders, and an ever willing co-worker: We desire to record the great appreciation of our loss.

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His varied experience, extending over different

His death will be the cause of universal sorrow,

Therefore, in testimony of your respect for the destreet and Fifth avenue, on Tuesday, March 16, 1886. at 2 o'clock P.M.

The members of the Association will assemble in the Sunday School room, entrance on 35th street, at 1:45 P.M. CHARLES A. LEALE, M.D.,

GLOVER C. ARNOLD, M.D., Secy.

A review of the life and work of Dr. Flint will ap-

## ASSOCIATION ITEMS.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tuesday at II A.M.

The delegates shall receive their appointment from permanently organized State Medical Societies and such County and District Medical Societies as are recognized by representation in their respective State Societies, and from the Medical Department of the Army and Navy, and the Marine Hospital Service of the United States.

Each State, County, and District Medical Society entitled to representation shall have the privilege of sending to the Association one delegate for every ten of its regular resident members, and one for every additional fraction of more than half that number: Provided, however, that the number of delegates for any particular State, territory, county, city or town At a special meeting of the Executive Committee shall not exceed the ratio of one in ten of the resident of the New York County Medical Association, the physicians who may have signed the Code of Ethics of the Association.

> Secretaries of Medical Societies, as above designated, are earnestly requested to forward, at once, lists of their delegates.

Also, that the Permanent Secretary may be enabled to erase from the roll the names of those who have Professor Flint, from early manhood, has ever been forfeited their membership, the Secretaries are, by

special resolution, requested to send to him, annually, nothing was visible. Two days after the sensitive a corrected list of the membership of their respective plate announced that something was wrong the Societies.

#### SECTIONS.

"The Chairman of the several Sections shall prepare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their respective Sections. . . ."—By-Laws, Article 11, Sec. 4.

Practice of Medicine, Materia, Medica and Physiology.—Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .-Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary.

Surgery and Anatomy.-Dr. Nicholas Senn, Mil-

waukee, Wis., Chairman; Dr. H. H. Mudd, St. Louis, Mo., Secretary.

State Medicine. - Dr. John H. Rauch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas, Secretary.

Ophthalmology, Otology, Laryngology.-Dr. Eugene Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton, St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nashville, Tenn., Chairman; Dr. W. B. Lawrence, Batesville, Ark., Secretary.

Oral and Dental Surgery .- Dr. John S. Marshall, Chicago, Ill., Chairman; Dr. A. E. Baldwin, Chicago,

III., Secretary.

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting.—By-Laws.

Committee of Arrangements .- Dr. Le Grand Atwood, St. Louis, Missouri, Chairman.

#### AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary—all other nomi nations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J.—Create a new Section, to be known as the Section on Medical Juris-WM. B. ATKINSON, M.D., prudence.

Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

#### MISCELLANEOUS.

Dr. Gasper Griswold, one of the most promising young physicians of New York, died on March 4, after a short illness. He was a member of the editorial staff of the New York Medical Journal.

Photographic Diagnosis.—Henry de Parville, in "Le Gagne-Petit," tells of a case in which the sensitive plate for a photograph showed some very peculiar dark specks. When the sitting was made the subject had peculiar sensations of the skin, but woman was taken sick with an eruptive fever.

Unconstitutional Boards of Health in New JERSEY .- The New Jersey Supreme Court has declared a law to be unconstitutional under which certain boards of health were organized and operated. The boards so affected are abolished, among them the Board of Health of Camden, which has now no sanitary protection except that afforded by the sanitary committee of the common council.

A MILK STANDARD.—The Court of Appeals of New York has just decided that the legislature has the power, in an act forbidding the sale of impure or adulterated milk, to fix a standard by which it shall be judged, not only as a rule of evidence but as an explanation of the meaning of the words used in the Statute.

Poisonous Wall-papers in Massachusetts.-A second hearing in regard to legislation to prevent the sale of wall-papers containing poisonous ingredients was recently held before the Committee on Public Health of Massachusetts. Many leading chemists appeared in support of the measure.

NOTE BOOK FOR OVARIAN AND ABDOMINAL TU-MORS.—We have received from the publishers, Cupples, Upham & Co., of Boston, a convenient note book for cases of Ovarian and other Abdominal tumors, arranged by Dr. John Homans.

New York State Medical Association, Fifth District Branch.—The third special meeting of the Fifth District Branch will be held in the Common Council Chamber, Yonkers, at 2 P. M. on Tuesday, March 23, 1866. The following papers are promised

"The Physician and the Pharmacist-their Relative Duties," by J. P. Garrish, M.D.

"A Case of Meningeal Extravasation with Curious Localization of Nerve-Symptoms," by A. L. Carroll, M.D.

"Sacculation and Perforation of the Bladder as Consequences of Chronic Retention of Urine," by I. W. S. Gouley, M.D.

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING MARCH 13, 1886.

Woods, George W., Surgeon, ordered to Navy Yard, Mare Island, to relieve Surgeon W. K. Scofield. April I.

Scofield, W. K., Surgeon, detached from Navy Yard, Mare Island, and wait orders.

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S. MARINE HOS-PITAL SERVICE FOR THE THREE WEEKS ENDED MARCH 13, 1880.

Benson, J. A., Passed Asst. Surgeon, resignation accepted, to take effect April 6, 1886, and leave of absence granted until that time. March 10, 1886.

# ournal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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CHICAGO, MARCH 27, 1886.

No. 13.

## ORIGINAL ARTICLES.

## THE MECHANISM OF INDIRECT FRACTURES OF THE SKULL.1

BY CHARLES W. DULLES, M.D.,

SURGEON TO THE OUTPATIENT DEPARTMENT OF THE HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA AND OF THE PRESBYTERIAN HOSPITAL IN FHILADELPHIA.

Hippocrates gives the earliest definition of the fractures we are about to study: The bone is broken the cranium into "immediate and mediate;" if, in- base. His conclusions are formulated as follows: deed, this suggestion be an improvement. Hippocrates despaired of the cure of fractures remote a blow, without a direct fracture. from the seat of the wound, and seems to have had no more definite idea about them than that they diation," and crossed any sutures in their way. might occur. The next author, Celsus, says: It sometimes happens, also, that the blow has fallen upon one point, and the bone is cleft in another.

3. They followed the short (the curve of shortest radius).

4. They were ordinarily lim point where there is softening and swelling, in case nium), and followed a certain direction. no fissure is found at the point struck, and bad symptoms arise. Here is a decided advance upon the independent fractures of the base; but only when teaching of Hippocrates, another being the observation of Celsus that the vessels of the brain might be ruptured without fracture of the cranium, anticipating a much later explanation of the term "contrecoup."

in 1760, and again in 1765, as the subject for a prize, the following proposition: "To establish the theory of counterstroke in lesions of the head; and the practical conclusions which may be drawn from it." On the first of these occasions the prize was not tex or occiput are among the commonest accidents awarded; on the second, it was awarded to Grima, who sent in for the second time the same essay

axes, in a manner which some authors describe as undulatory. Nor would the history of this epoch be complete without mention of a valuable memoir upon counterstroke in other parts of the head, written by David, though published under the name of his pupil, Bazille-to which a double prize was awarded in 1771.

In 1844, Aran published an exceedingly valuable paper on fractures of the base of the skull, in which he formulated a theory which has been known by his in another part of the head than that in which the name ever since. This theory was, that fractures of man received the injury, and the bone was stripped the base are always connected with fractures of the of the flesh. This definition remained unimproved vault, from which they radiate, following a line withuntil more than two thousand years later, when, in in the zone in which the former occurred, and taking 1873, Félizet suggested the division of fractures of a course which corresponds with shortest route to the

1. He never saw a fracture of the base, caused by

2. Fractures of the vault joined the base by "irra-

3. They followed the shortest route to the base

4. They were ordinarily limited to certain regions He furthermore recommends cutting down upon any (corresponding to the several great fossæ of the cra-

5. Fractures of the vault sometimes coincide with there is considerable comminution (ebranlement) and

very multiplied fractures.

In 1847, Guthrie published a monograph on injuries of the head, in which he gives an excellent ré-The Royal Academy of Surgery of Paris proposed sumé of the history of various sorts of fractures of the cranium. Among them he speaks of counterstroke, the occurrence of which from temporal to temporal, or from parietal to parietal, he doubts, but says that fracture of the base from blows on the vorof surgery.

In 1853 was published, in Guy's Hospital Reports, which he had sent in for the competition, and which a first instalment of Mr. Hilton's sagacious lectures had been thought the best at that time. The same on the cranium, which was followed, in 1855, by their question was proposed for the prize of 1768, when publication entire in a separate volume, by Dr. Pavy, prizes were awarded to Saucerotte and Sabouraut, after their revision by Mr. Hilton himself. In these for which Chopart also presented an essay, which lectures Mr. Hilton explains fractures of the skull was accepted and published by the Academy. Cho- upon the "vibration theory," and speaks of the pospart not only recognized the elasticity of the skull, terior clinoid processes and the extremities of the but exaggerated it, and, as a diagram in his essay petrous bone as points to which vibrations are conshows, believed that a blow produced alternating ducted, and where they are transmitted to the coreand reciprocal shortening and lengthening of the bro-spinal fluid, thus being "interrupted or lost before reaching the cerebral tissues," etc. The fallacy of this conclusion I shall have to consider hereafter.

<sup>&</sup>lt;sup>1</sup> Abstract of a paper read before the College of Physicians of Phila-delphia, on February 3, 1886.

the elasticity of the cranium.

eleven out of sixty fractures.

which the history was very incomplete, and he found fracture of the base alone, without fissure of the convexity, only seven times. He found about thirtynine per cent, of the fractures limited to the zones described by Aran and Hewett; while in over sixty per cent, this regularity was wanting. This is one of the most important features of his investigations. Another is that the study of fractures he had analyzed showed that the petrous bone was fractured in that, very rarely, these fractures by contrecoup do oc-66 out of 115 cases; and that force applied to the cur. He divides fractures of the cranium into diside of the head caused fractures somewhat parallel to the axis of the bone, while force applied to the occiput, or forehead, or vertex, caused fractures plication of the violence which causes them fractransverse to the axis. This was an important contribution to the accumulating material for a new consideration of the mechanism of indirect fractures of fractures not immediately limited to the point of imthe skull, as we shall see hereafter.

In 1873, Félizet published an elaborate illustrated monograph<sup>1</sup> on the subject of fractures of the cranium. He regards this as a solid case, of a spheroidal shape, but claims that its internal configuration renders inaccurate a comparison of it to any geometrical figure whatever. By experiment he demonstrated that the dura mater makes the skull where it is attached more resistant to fractures caused by flattening its curve. Experimenting with a billiard ball let fall from a height, he found that its equator was increased, that this increase was greater in a direction at right angles to its fibres than in a direction parallel to them. The result was an ellipsoidal equator, and when a fracture occurred, this crossed the long diameter at right angles. He unwittingly para-phrases the theory to which I have several times alluded, and which I shall soon consider, in saying, "We know that a fracture results from depression of

In 1854 the keynote to a new theory of indirect the curved surface situated between two resisting fractures of the skull—which had, however, as we pieces, and we know, also, that every effort tending have seen, been foreshadowed much earlier by certo depress this curve divides into two forces, the one tain observers—was struck in Germany by experi- a driving force (force de tassement), which acts on the ments made by Bruns, of Tübingen, to determine axis, or near to it, of the supporting walls; the other, a disruptive force (force de glissement), which acts In 1864, Chauvel published a thesis on fractures transversely to them, and tends to separate the two of the cranium, founded upon a careful study of its an-extremities of these pieces." He compares the sepatomy, in which he laid great stress upon the elasticity aration of sutures, the result of blows, to that which of the skull, and described the "vibrations" produced is effected in anatomical preparations by filling the by a blow, as the repeated and alternating shorten- skull with dry peas and then soaking them, so that ing of the prime axis and lengthening of the trans- by swelling they tear the skull apart. He declares verse axis. He called attention to the fact that the that there is a perfect analogy between this and what petrous bone, although the hardest in the cranium, he calls the "grand fracas" (grand smash), in which is the one most frequently fractured. He described he says "the bones, compressed over a large surface. three kinds of fracture: 1, direct; 2, contra direct; rock (basculent), and this rocking movement sets up 3, indirect. The first kind is simple enough. The violently a dragging force perpendicular to the plane second occurs opposite to the point struck, and he of the surface of union of the bones of the cranium." offered no explanation of them, except the compari- As we shall see hereafter, this is the same as saving son of those caused by the spinal column to the that a force which depresses an elastic curved figure. manner in which the handle is driven into the head will enlarge its diameter, and be converted into a of a hammer by striking the remote end of the handle disruptive force acting at right angles (perpendicuagainst some resisting body. The third form of frac- lar) to the meridian. Herein Félizet comes near to ture he defined as that occurring between the point the theory which the Germans call the "Berstungs" struck and that directly opposite. This he found in (bursting) theory, although he does not quite reach it, and may perhaps, even now, not see his state-In 1872, Schwartz analysed 115 cases, in most of ments to be so strong a confirmation of it as they appear to me to be.

The term "contrecoup" Félizet rejects, and would adopt that of M. Beau, of Brest, who called indirect fractures "mediate." Félizet compares the mechanism of these fractures to those produced by a blow upon a wedge or a chisel. The part broken, he holds, is directly struck by another part, which in its turn, received a blow and transmitted it. Yet he admits rect, indirect, and mixed. Indirect fractures include those which are independent. In respect to the aptures may be divided into immediate and mediate. His conclusions may be briefly stated as follows: all pact follow certain definite routes, to which they are restricted by the added strength of certain parts of the skull, which depends upon the presence of certain "murs boutants" (buttresses): the petrous bones, the orbito-sphenoid prominences, the occipital protuberance, and the naso-frontal protuberance. basilar process and the antero-lateral parts of the occipital bone remain intact amid all fissures and constitute a "centre of resistance." The vibration theory, he says, is disproved by experiments, the fundamental phenomenon is a violent flattening of part of the vault, and a separation of the resisting portions (pieces de résistance) which, support it. When the violence is perpendicular to the surface of the cranium, fractures radiate directly to the base. In this, it will be seen, Félizet agrees with Aran. Finally, he admits that these are fractures, called by "contrecoup," the mechanism of which escapes us completely.

The opinions of Félizet are founded upon a careful analysis of a number of pathological specimens and upon a number of experiments upon fresh skulls.

<sup>1</sup> Félizet, G. Recherches anatomiques et expérimentales sur les Fractures du Crâne, 8vo. Pp. 167, Paris, 1873.

but, as we shall see hereafter, these very buttresses and not to a propagation of vibrations. are often broken both transversely and longitudinally, and Félizet's centre of resistance is by no means a ments which demonstrated more accurately than had centre of immunity, but an exceeding frequent seat ever been done before the elasticity of the cranium, of fracture.

A few years later Baum<sup>1</sup> opposed the vibration theory, and made some experiments by strewing angles to it is enlarged. sand on a skull and applying a vibrating tuning-fork man experimenters, who adopted the "bursting" theory.

alone was involved in certain places. that blows on the vertex or occiput usually cause times! fractures by contrecoup (which he defines as fracrarely cause any but direct fractures.

tic conditions of the skull to those of the thorax, allel to the axis of the force which gives rise to which, when compressed or struck in one part, breaks them, and which begin, in the words of Messerer, at in another. He also compares the mechanism of fract some point in a line which, like the equator, in relatures of the skull to the bursting of the eyeball untion to the poles of the earth, circumscribes the holder pressure, referring to Arlt's demonstration, that low figure in a plane equally distant from both when compressed the eyeball bursts in the equator. points of compression. He claims that, in compres-Fractures from severe blows, he believes follow this sion of the skull-which may be gradual, as in a vise,

The value of his work can be appreciated only after the law laid down by Félizet. He calls attention to a thorough study of it. The result of it was to bring the importance of duly estimating the variations in him to a conclusion which may be succinctly stated as that indirect fractures are due to a disruption by to the skull, and the support afforded by strengthensplitting. There can be no doubt that the course of ening bones of the skull and face. He cites Baum a fracture will be determined to a considerable ex- (whom I have cited) as refuting the vibration theory, tent by the reinforcements which the skull has, in and seems to have the idea that indirect fractures of certain places, from its buttresses (murs boutants); the skull are to be attributed to a disruptive force,

In 1880, Messerer conducted a series of experiand which made clear the fact that when the skull is compressed in one axis, the circumference at right

In 1881 Nicolai Hermann published an inaugural to it. From these experiments he concluded that dissertation on fractures of the base of the skull, in vibrations were restricted by surrounding less elastic which, besides an analysis of seventy five cases gathparts, like the vibrations of a drum head. The pe- ered from various sources, he gives an account of trous bone, however, he concluded, owing to its an- seventeen experiments in which he compressed the atomical structure and relations, vibrates like a rod skull in longitudinal, transverse, and diagonal direcheld by one end in a vise. He refers to Weber's tions, until it broke. His experiments always rewave theory, and concludes that blows upon the sulted in a fracture parallel to the direction of the skull do not furnish the conditions of repeated im- compressing force. He believes that fracture always pulses which produce a high vibratory action. By begins at one of the points compressed and travels compression of a few skulls in a suitable frame he away from it. By analyzing the cases he had colgot results which correspond to those of later Ger- lected he concluded that they supported his deductions from experiments. It seems to me that some of his figures show plainly that the fissures must have In 1878, P. Bruns attributed indirect fractures to begun at the middle and travelled both ways. In the the elasticity of the skull, as described by von Bruns same year Julius Schranz published an account of in 1854, and explained the frequent occurrence of thirty-four experiments upon skulls, some (thirteen) these fractures in the base of the skull by the fact from which the vault had been removed, but the that this is the weakest and most fragile part of it. most of them entire, in which he endeavored to imi-In the same year, Perrin made some very instructive tate the conditions in which fractures are caused by experiments, in which he attempted to imitate the different sorts of violence. The experiments were usual conditions of the skull by protecting it with an interesting and instructive. The great majority of elastic cushion of cotton wadding or of caoutchouc the fractures he produced were splitting fractures. and then throwing it upon a stone pavement, or by and not immediately connected with the point to putting his cushion on the pavement itself. He al. which the violence was applied. In a considerable ways got direct fractures by blows, and by precipi- number isolated pieces of the vitreous table were tating the skull he usually got indirect fractures. He split off, or the dorsum ephippii. These (and other showed typical specimens to the Société de Chirur- indirect fractures), he says, can only be explained by gie, in all of which the fractures were indirect and the vibration theory. A curious result of his experimeridional, and in some interesting cases the vitreous ments was that the brain was injured only once, and He found the dura mater separated from the bone only three

But it remained for Von Wahl, in 1883, to utilize tures occurring at a place other than that struck), the material which had been recently gathering, and direct fractures being rare exceptions; while blows to formulate unequivocally the theory that fractures on the forehead, the parietals, or the temporal bones, of the skull may be divided into: i, crushing fractures, in which the line of fracture runs at right angles In 1880, Bergmann published another valuable to the axis of the force applied; and 2, bursting contribution to this subject. He compared the elaslaw; those dependent upon moderate force follow or sudden, as when effected by a fall or blow-its elasticity, in toto, comes into play, and while its diameter which is parallel to the force applied is short-

<sup>&</sup>lt;sup>1</sup> Baum, W. Beiträge zur Lehre von den indirecten Schädelfrac-en. Langenbeck's Archiv f. klin, chir., Bd. xix, pp. 381-399, 1876,

ened, its diameters which lie at right angles to this nor always at the point of impact, but at that point are lengthened. The result is, that indirect fractures where resistance to the disruptive force is least. This run in lines which we may describe as meridional. His conclusions rest not only on theoretical consid- the equator or in its neighborhood. erations and a review of the testimony and opinions of others, but also upon his own clinical experience, and a series of ingenious experiments, which are fully described and beautifully illustrated in his mono- erties of the skull by a series of experiments which graph, a careful study of which may, without injustice, only required multiplication and variation to confirm be said to be indispensable to one who would form a direct opinion upon the subject of which it treats.

elaborate and valuable paper on "Injuries of the Head," in which he adopts the vibration theory, and supports his opinions with some interesting anatomical and physical considerations. He regards the base as a stronger part of the cranium than the vault, speaks of the brain as lying on a water-bed, and de-sion of a direct depressing force into an indirect disscribes vibrations of the bones as travelling by the nearest "anatomical" route to the base, there to be discharged, like electricity, at certain points—the lengthening of the axis at right angles to the former. ends of the petrous bones and the clinoid processes —into tissues which are non-conductors of vibration. He also calls attention to the important influence which the position of the head has upon the direction in which a force applied to the condyles will be conducted. In a very interesting case, which he cites from his own experience, there was a separation of hollow case, the shape of which has a general resemthe masto-occipital suture, which he says was forced apart "as if from within."

In 1884, Messerer published a second and most admirable paper on fractures of the cranium in which he gives a description and analysis of eighty-two experiments on fresh skulls, sometimes on entire cadavers. His experiments included accurately regulated blows upon skulls, detached or resting on the spinal column, and falls of the skull upon a hard base. These experiments completely refute the laws of Aran as well as those of Félizet, and seem to show conclusively that indirect fractures of the skull are dependent upon separation of the meridians caused by the depression produced at the point of contact by a blow.

Finally, our sketch of the history of this subject is brought down to the present year by a reference to the paper of Greder, published in the early part of the different diameters and circumferences. This 1885.2 The experiments of Greder were made upon skulls connected with the trunk and still covered with their integuments and containing the brain, by blows with a weight of 6400-7650 grammes (about 12-15 pounds). After a large number of these experiments, some of which were most ingeniously varied, Greder comes to the conclusion that solutions of continuity of the base of the skull are to be regarded as the result of bursting; that the direction of fissures is parallel to that of the force causing them; that the extension of a fissure is dependent upon so many intercurrent conditions peculiar to each skull, that it can at most be only suspected from the intensity of violence. As to the point at which the burst begins,

will happen, he thinks, in the majority of cases, in

#### THE ELASTIC PROPERTIES OF THE SKULL.

In 1854, von Bruns demonstrated the elastic propwhat an important part the elasticity of the skull plays in the production of indirect fractures. Since then, In 1884, Dr. Nancrede, of this city, published an almost innumerable experiments and studies of specimens of fractures of the skull have cooperated to establish the conviction that, with certain exceptions, the mechanism of indirect fractures of the skull may reasonably be explained according to what the Germans call the "bursting theory," i. e., to the converruptive force, produced by a shortening of the axis parallel to the direction of the force and a complementary

> The experiments of Messerer can be analyzed so as to throw a great deal of light upon the physical properties of the skull, revealing the parts in which it is strongest, and those in which it is weakest. But, in order to understand their significance, we must have a clear idea of the mechanism by which, in a blance to that of a spheroid or ellipsoid, a compressing force is converted into a disruptive force. It will be readily seen that when an elastic spheroid is compressed in any diameter, all the diameters lying at right angles to this, that is to say, in planes parallel to that of the equator, must be elongated. The experiment of pressing on the convex side of a bow, the ends of which rest on the ground, will illustrate what takes place in every chord of every arc that is depressed. It is equally clear that the elongation of the diameters lying in any plane will elongate the circumference of this plane, because a circumference of longer radius is longer than a circumference of shorter radius. As a result of this elongation of the circumferences parallel to the equator in any spheroid or ellipsoid, the meridians passing from pole to pole will be separated in a direct ratio to the extension of operation is illustrated whenever an umbrella is raised.

As a consequence of the separation of the meridians in a hollow sphere or ellipse, particles which before occupied a certain space between two meridians, will be compelled to separate in order to occupy the increased space between the meridians. The consequence will be that, in every case such as we have supposed, there will be a struggle between the cohesion of the particles and the disruptive force due to the separation of the meridians, and whenever the disruptive force overpowers the cohesion of the particles lying along and between two of the meridians, a solution of continuity will take place. The disruptive force will be at a maximum at the equator, but he holds that it is not always in the equatorial line, the same conditions of disruptive force opposed to cohesion will be found in different proportions in every line parallel to the equator. As a result, in a perfect sphere with homogeneous walls such a solu-

International Enclopædia of Surgery, Vol. v. pp. 1-100,
 Greeder, Wilhelm. Esperimentelle Untersuchungen über Schädelbasisbriiche. Deutsche Zeitschrift für Chirurgie, Bd. xxi., 5 und 6 Hefte,
 Marc, 1885, pp. 491-510, tafeln vin sitv.

tion of continuity would naturally begin at the geometrical equator and extend equally and simultaneously skull in the longitudinal diameter with a force of 650 in opposite directions in a meridional line toward the kilogrammes increased the transverse diameter 0.6 poles. But in a spineroid or ellipsoid not regular in millimetre, and the perpendicular diameter o. 1 millishape, and with walls varying in strength in different metre. From this we deduce parts, the result would be modified by these variations.

took place in the base.

the skull is less than that of the vault.

than it is to resist a similar force caused by blows also is supported by clinical observation. applied to the forehead or occiput. This is not only a fair inference from the experiments of Messerer, skull in a transverse diameter, with a force of 520 but it also accords with clinical observation.

in a transverse direction, with a force of 520 kilo- metre; and that compression of the skull in the longrammes, diminished the transverse diameter 4.4 mil-gitudinal diameter with a force of 650 kilogrammes, limetres; and that compression in a longitudinal di- increased the transverse diameter o.6 millimetre and rection, with a force of 650 kilogrammes, diminished the perpendicular diameter o.1 millimetre. From the longitudinal diameter only 2.7 millimetres. From this we may deduce

this we may deduce

tion of Corollary II.)

metre. From this we may deduce

perpendicular diameter than in the longitudinal diameter of the sagittal zone. The natural inference from but also of the direct ratio of this elongation to the this corollary is that, under the influence of a force depression. Furthermore, it appears from the obapplied to the sides of the head a fracture which servation of Messerer just cited, that a smaller force would naturally begin in some point in the sagittal applied to the skull in a transverse direction will prozone, will begin in that part of it which is intercept- duce a greater elongation of the corresponding equaed by the perpendicular diameter more readily than tor than will be produced by the application of a dein that part of it which is intercepted by the longi- cidedly greated force in a longitudinal direction. tudinal diameter—that is to say, at the base or ver- From this we may draw the deduction that force aptex rather than at the forehead or occiput. We have plied to the side of the head is more likely to proalready seen (Corollary I) that the cohesion of the duce a fracture crossing the sagittal equator than skull is less at the base than in the vault, therefore, force applied to the forchead or occiput is to cause of the two points just indicated, the base is that of a fracture crossing the coronal equator. This deelection. Here, again, clinical observation supports duction is in accord with the results of Messerer's our deduction.

Messerer found, further, that compression of the

Corollary V. The skull is more extensible in the This is exactly what we find in the case of the skull, transverse diameter than in the perpendicular diamwhich, while bearing a certain resemblance to an eter of the coronal zone. (This is the converse of ellipsoid, does so in only a modified way, and can Corollary III.) The natural inference from this coronly be expected to exemplify the law just stated ollary is that, under the influence of force applied subject to modification due to its own peculiarities. to the forehead or occiput, a fracture which would With this in mind, let us see what the experiments naturally begin at some point in the coronal zone of Messerer show. Messerer found that the skull will begin in that part of it which is intercepted by burst in the base under an average pressure 650 kilo- the transverse diameter more readily than in that grammes applied in a longitudinal direction, and under part of it which is intercepted by a perpendicular an average pressure of 520 kilogrammes applied in a diameter—that is, at the sides rather than at the base transverse direction. From this we may draw two or vertex. We have already seen (Corollary I) that very important deductions. First, because the burst cohesion is less in the base than in the vault; therefore, a fracture which, for the reasons just stated, Corollary 1. The cohesive power of the base of would naturally begin at the base of the skull would be more likely to occur near the base than near the Second, because the skull burst under a pressure vertex. In estimating this probability it may also of 529 kilogrammes applied transversely, and under be borne in mind that the horizontal equator of the a pressure of 650 kilogrammes applied longitudinally. skull lies nearer to the base than to the vertex, the Corollary II. Cohesion is less in the coronal zone curvature of the former being much less than that of the skull than in the sagittal zone—that is to say, of the latter. So that the point of election for the the skull is less able to resist a disruptive force due fractures we are now discussing would naturally lie to blows upon the vertex or sides in the coronal zone low down on the side of the skull. This deduction

Messerer found, again, that compression of the kilogrammes, increased the longitudinal diameter 0.4 Messerer found again that compression of the skull millimetre and the perpendicular diameter 0.6 milli-

Corollary VI. The skull is more extensible along Corollary III. The skull is more compressible in the sagittal equator than it is along the coronal equathe transverse diameter than in the longitudinal di- tor. We have already seen (Corollary III) that the ameter. (This fact tends to strengthen the deduc-skull is more compressible in the transverse diameter than it is in the longitudinal diameter. It is, there-Messerer found, also, that compression of the skull fore, seen that the equator along which the skull is in the transverse diameter, with a force of 520 kilo- more extensible (the sagittal) is that one the plane grammes, increased the longitudinal diameter o.4 of which is cut at right angles by the diameter in millimetre, and the perpendicular diameter 0.6 milli- which it is more compressible (the transverse), and vice versa; which furnishes in the skull a demonstra-Corollary IV. The skull is more extensible in the tion not only of the elongation of the equator which is produced by depression of the poles of a spheroid, experiments, in which the skull burst under a pressure of 520 kilogrammes applied in a transverse di- well aware of the fact; but he also knows that in rection, and only under a force of 650 kilogrammes such cases the embryo invariably presents the primary applied in a longitudinal direction. It is also in ac- lesions in the liver, the organ with which the mother's cord with clinical observation.

way the points of election in the horizontal equator the skull in the vertical direction, between the vertex and the spinal column, led to a direct driving in of ever many tubercles may have been formed by the

may be summarized as follows: 1. Bursting frac- apices of the lungs the favorite seat for tuberculosis; tures are more likely to occur at the base of the skull than in the vault. 2. Force applied to the side of exclusive rôle in this, of which by far the most im the head may be expected to produce a bursting fracture crossing the sagittal equator. Such a fracture is more likely to occur in the base than at the already observed that ischæmia is an important adjuvertex. 3. Force applied to the forehead or occiput may be expected to produce a bursting fracture crossing the coronal equator. Such a fracture is likely to occur in the temporo-parietal region, and nearer to the base than to the vertex. 4. Force applied to the vertex or base of the skull may be expected to produce a fracture at the base.1

(To be concluded.)

## TUBERCULOSIS PULMONUM, ACUTE AND CHRONIC -- ITS NATURE AND TREATMENT.

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(Concluded from page 313.)

We are now prepared to follow the development as it occurs in the lung, as well as appreciate the conditions which form its clinical picture—and perhaps draw conclusions for the treatment of the disease which approach somewhat nearer the goal striven for-its cure.

Grant that the soil for the development of the disease has been furnished in accordance with the renecessary that the seed be furnished for the harvest of death-and this is supplied by the bacillus of Koch, the bacillus tuberculosis. The writer is forced by the array of facts upon the one hand, and the absence of one authenticated case of inherited tuberculosis upon the other, to join the army of those who believe that the lesions, i. e., the anatomical parts of our disease, may and do exist without the presence of the bacillus, but tuberculosis never occurs or exists the aforementioned endothelial cells of the lymph without the bacillus of Koch.

Here it may be well to state (in order to prevent confusion) that the occurrence of tuberculosis in the embryo has been demonstrated, and the author is

blood first comes in contact, and that the mother is We have now analyzed Messerer's experiments so always tuberculous herself; and the writer has no as to ascertain the points of election for disruptive doubt that in such mothers tubercle bacilli can be fractures which may occur in (that is, across) two of detected in the blood. But who has ever heard of a the principal equators of the skull, the sagittal and healthy mother, having cohabited with a tuberculous coronal. It is not possible to discover in the same husband, giving birth to a tuberculous child? The bacillus tuberculosis, therefore, is the most imof the skull; for Messerer found that compression of portant factor in the establishment of the disease; without it tuberculosis is non-existent, howthe base under so small a pressure as 270 kilogrammes, atomization of cheese, flour and other things. We The results of our analysis of these experiments will not stop to dwell on the causes which make the presumably mechanical forces play the greater, if not portant seems the gravitation of the blood in the lung towards the middle and lower lobes. We have vant in the development of this disease. The seed. the bacillus, and in the very nature of things, more often is spores, contained in the form of dust in the air inhaled, finds its way into the lungs, or, more properly speaking, is imbedded upon a spot denuded of normal epithelium offers an insurmountable barrier to the ingress of bacilli, if not of their spores also.) Or, what is more frequently the case, the seed is sown upon the contents of the alveoli, or, more definitely stated, the acini of the lung, the food consisting of fibrin, alveolar epithelium and leucocytes, and they grow and multiply, when they are prepared to attack the surfaces denuded of their epithelium, and in

The bacilli find their way into lymph spaces, and preferably those connected with the base of the lobulette, or acinus, simply because they are the most abundant in this situation. The advent of the bacillus is the signal for the graphically described "battle of cells with bacteria." The leucocytes endeavor to eat the intruder (and this must not be considered a fiction, for it has been observed taking place), and if successfully accomplished, as no doubt often happens, the description would end with the death of the hero-but, unfortunately, the bacillus will not quirements above indicated, it is still absolutely only triumph, but in conquering it grows and multiplies. Other leucocytes now endeavor to devour both the bacilli and their victim, and in like manner fall an easy prey to the parasites. Thus quickly a conglomerate of cells (a ball, a tubercle) is formed, the type of the recent tubercle, minus the giant cells. And the absence of the giant cell in these formations is not an accident, but an invariable rule. It is otherwise when the bacillus is attacked (or attacks?) by spaces, or the amæboid cells of the fibrous tissue. Here a somewhat different manceuvre ensues. The bacillus finds its way into the cell, or is taken up by the cell, we do not know which; and now, by the emanation from its economy of a poison of the nature of ptomaines (D. L. Brieger), or by the supply of a ferment (capable of being furnished by all albuminoid

It may be worth while to call attention to the fact that there is no essential difference between a blow applied directly upon the vault or side of the skull and one transmitted through the spinal column by a fall upon the feet or buttocks.

substances of cells), the part of the cell on which, or described and figured as the cause of the disease, and in which the bacillus is lodged necroses by a typical yet they are only so many monuments to friendship, coagulation of its substance (Prof. C. Weigert), unwise friends, we are willing to admit, who have in That this is true necrosis, namely: the partial coagu- their component parts, the cells, paid their friendship lation, is evident from the fact that the nucleus not with their death. only remains alive, but its adherent protoplasm acof Langhaus.

media), to serve in their turn the purposes of a re-picture of chronic tuberculosis pulmonum. newed invasion of the adjacent tissue. Exterior to

the case, tubercles have been, and most unjustly so, cesses are generalized, and in the other they are lo-

Tubercles are not disease, but nature's method of cumulates and furnishes the means for the segmenta- staying disease and death, for as long as they themtion of the nucleus; but whilst this occurs in the one selves remain untouched by decay they are harmless to cell, another, and more often many cells, not only the economy. Yet, like too assiduous friends, they pass through the same changes, but adhere, as would may overdo their good offices (though we suspect it be expected, to the necrosed part of the first cell so is the fault of the anatomical relations of the parts affected, thus forming a plexus of a very peculiar and the importance of their functions to the economy) form, i.e., centrally a mass of necrosed tissue, sur- -they grow until not only the bronchial twig but the rounded with the living protoplasm of cells, which pulmonary vessels, the artery in particular, are strancontains one or more nuclei, of course peripherally gulated either by the masses which surround them, placed, like rosettes or wreaths, when the whole con- or by the invasion of the tubercles into them, and in glomerate is considered, this is the typical giant cell both instances, though not a typical embolus results, the consequences are exactly the same, the tissue And just as in the tuberculous ulcer the bacilli dies invariably, and when removed it leaves a cavity. occupy the ground between dead and living tissue, so This is the case whether the process proceeds from here we find in the giant cell, the bacilli between the the surface of a mucous membrane, as that of the necrosed central portion and the periphally placed intestines, or from the situation just described. We nuclei, which, as is known, always disappear when the said a cavity purposely, and not an ulcer, for this, cell has become the victim of the coagulation necro-after the necrosed tissue is removed, presents a gransis. In fact, even the bacilli are lost to view in this ulating surface bathed in pus, indicative of an effort dead part of the growth, having, as some writers at redemption. Whilst the wall of the cavity preassume, suffered destruction, only with this difference, sents nothing but necrosed and dying tissue, made that they have left their progeny, the spores, behind uneven by larger and smaller masses of tubercles in (which has not yet been demonstrated by staining all stages of development and decay. This is the

Acute miliary tuberculosis of the lung presents in this conglomerate of cells, whether composed of leu- its causation an entirely different aspect, though the cocytes only, or of giant cells and leucocytes, the final issue is identical with the one just described. consequences of an irritation of the tissue always It consists most generally in a multiple embolism of appear in the form of an invasion of multiplying tissue the capillaries of the pulmonary artery, induced not cells and wandered-in white blood-corpuscles; to give by bacilli or their germs, but by debris from softened rise to the attempt at organization most always noted foci (glands more often) with bacilli in and on them, upon the periphery of slowly forming tubercles and which have found their way into the circulation. masses of tubercles. And this attempt at organization In this causation two other sources must be insucceeds in the ratio of the blood supply to the parts, cluded: direct injection into the circulation of the and their own normal constitution, and fails as the virus in sufficient quantity; and reversion of the parts approach the composition described by For-lymph stream. Inoculation of the virus belongs in mad, and known as the scrofulous. If it succeeds, the first category, as miliary tuberculosis is noticed then the wall of cicatricial tissue built around the only after the formation of tubercles in loco. Direct tubercle prevents the invasion of the surrounding injection self-evidently reverts to the first category tissues by its contents, the spores of bacilli particu- also, the place of the introduction of the poison not larly, after they have been set free by the softening being considered. Reversion of the lymph stream of the tubercle. And this holds good not only for as a cause of miliary tuberculosis of the lung has the single tubercle, but also for any number of them, only of late obtained a safe foundation by the oband, indeed, whether they exist upon a free surface, servations of v. Recklinghausen. In cancer of the or upon the wall of a cavity which is of their creation. bronchial glands, it is not seldom that metastases are As already stated, the tubercle grows peripherally, found in the subpleural tissue. The same transmisi. c., the central one having softened, its contents sion must be admitted for broken-down tuberculous rapidly invade adjacent parts to add like growths to material from the same glands. The infective embothe central mass. And so minute are the single lus, for such it is, provides all the conditions we have growths, that a compound tubercle of the size of a found in the bronchi, and have claimed as necessary poppy seed is made up of at least thirty-six sub- for the multiplication of the bacilli and their succeedmiliary nodules (Rindfleisch). Another method of ing destructive work. All subsequent infiltration of peripheral enlargement consists in the coalescence of the tissues is identical with that of the bronchial disadjoining tubercular masses—this concentric and periease, with this difference only, that in the latter the pheral growth proceeds until the base of a terminal infiltration is primarily located in the peribronehial bronchus is surrounded by a tubercular mass which lymphatics, whilst in the former it is found in the is known as Carswell's grapes. Hitherto, as is often perivascular lymphatics, and that in this the pro-

calized. And finally, that infection of both lungs thing that hygiene has suggested to keep air pure as ensues from all the sources mentioned but one, re-version of the lymph stream, in which the general for tuberculosis is the crowded work-shop, illy ventubercular formation is unilateral in the earlier stages tilated and overheated, and in which work is perof the disease.

of tuberculosis we must mention the freedom from in an equable, dry and rather cool climate, where this disease enjoyed by persons with lesions of the you are your own neighbor, and the only one. To heart, of which mitral stenosis is the one most rarely enumerate the methods of infection would prove an complicated with pulmonary tuberculosis. Ruehle, equally herculean undertaking. From the mother's in Ziemssen's "Cyclopædia," page 507, says: "The blood (Johne) and her mouth and lips (Herterich), correctness of the general statement must probably from inoculations through trivial injuries, as a cut in be admitted." And after giving Traube's view, that the finger (E. A. Tscherning), or the dentist's forthe more copious effusion from the pulmonary ves- ceps (the author); from inhalation of the poison in sels, whereby the dessication and caseation of morbid products are promoted, is perhaps the reason for this cell, from food and clothing, tuberculosis may take exemption from the disease, he dismisses it "because a discussion of hypotheses (italics mine) is out of place here." I certainly agree with him as to the sis are so likely to be followed by tuberculosis (and impropriety of the discussion of hypotheses in a this is a fact) is correct, to permit a child sick with lengthy paper like his or ours. Yet the great clini- these disorders to remain in the company of a person cian's (Traube's) view can no longer be classed with suffering from tuberculosis. It should never be'alhypotheses. It is a fact that in all the lesions of the lowed if it can be avoided. heart which seem to lessen the occurrence of tuberculosis pulmonum the right ventricle is hypertrophied, and this hypertrophy is not caused by an interference with the blood current between it and the lung, but Besides this, any and all means which favor the resbetween the lung and the general circulation, within the province of the left heart. The changes produced, in consequence of these lesions of the heart, in the lung, are strictly in keeping with the conditions required to prevent the occurrence or the development, to any extent, of the lesions of tuberculosis in the lung. It is a clinical fact that the hypertrophied right ventricle will induce congestions in the lung, particularly if the blood stream is impeded on the the hope of final success. This presumably lies in left side of the heart. This chronic pulmonary congestion is followed by two sequele-an interstitial connective tissue hyperplasia (cirrhosis of the lung) and an increase of the velocity of the lymph stream, both conditions which our exposition will warrant us the solution of the tubercles, then the cure of the in accepting as diametrically opposed to the development of tuberculous lesions. Indeed, the latter the object of the writer to burden medical literature function, the ready flow of lymph, is so very important, that its maintenance and its increase become have been furnished often and by abler writers. He the momentous questions in a rational treatment of will therefore not be charged with omissions—that the disease. That this is normally brought about by mention has been made in a general way only, of the congestions, by the active contractions of the muscles treatment which to-day receives universal sanction. of a part, by deep and often repeated in and expirations, and by the normal relation of the histological ulants and tonics, to establish the conditions described elements of the tissue, needs no demonstration.

function by Cohnheim's experiment. He observed in the lung and favor cicatricial growths around tuthe lymph stream from the thoracic duct increased bercles and their cavities. twenty five times, when he injected into the circulain this disease simply means a shutting out from the iodine and carbolic acid (as has been twice success-economy of Koch's bacillus. To enumerate the fully done by the writer). Cod-liver oil should never be means by which this ought and can be done, would omitted, because of its undoubted influence in remov-

formed which produce dust full of irritating parti-To strengthen the scientific basis of the treatment cles. The least offensive place is a mountain home, home, school, work-shop, crowded hall and prison origin. It is certainly very careless, nay, criminal, if the author's explanation why measles and pertus-

> The cure of diseases and conditions which favor the development of tuberculosis forms, of course, a very important part of the prophylaxis of the disease. toration or the maintenance of the highest vitality to the elemental parts of the lungs, as well as of the whole body, are of the greatest importance not only in the prevention, but also the cure of tuberculosis. It is self-evident, from what has been said, that the specific cure of tuberculosis demands, in the first place, the destruction of the bacillus. Much has been suggested and done in this direction to warrant the direction of inhalation of parasiticides, and their injection by the nearest and most direct channels practicable. And if these inhalations and injections contain the means (alkaline or neutral solutions) for disease will become a scientific certainty. It is not with an exhaustive essay upon tuberculosis; such

The heart should be induced to do its best by stimat length, which will curtail the disease, namely: re-Stress is here put upon the artificial increase of this move impediments to the free circulation of fluids

The sewers of the body, particularly the kidneys, tion forty per cent. of the body weight of a  $T_0^0$  of one should not be neglected, rather stimulated to remove per cent, solution of chloride of sodium in distilled all effete matter promptly and thoroughly from the water. Much, indeed, has been said of the prophy- body. Enlarged glands, wherever situated, particulactic treatment of tuberculosis, and much more is larly on the neck, and in reach of the hypodermic yet unspoken, and far more unheeded. Prevention syringe, should be made harmless by injections of necessitate the incorporation in this paper of every- ing or preventing the formation of scrofulous tissue.

to explain the manner or cause of the formation of "scrofulous tissue." That it is acquired intra vitam no reasonable doubt can be entertained, and for its inheritance an array of facts speak, which are invineible. The why in both instances is yet sub judice. duces the non-separation of the cell conglomerate; are of local or central origin in the nervous system. and, when the circulation is altogether strangulated, death of these elements and destruction by casea are due to functional disturbance of the pneumo-

Ashland, Nebraska, December, 1885.

## In what has been said no attempt has been made A GRAVE CASE OF NERVOUS DYSPEPSIA CURED BY MASSAGE AND REST IN BED.

BY M. STAMM, M D., OF FREMONT, OHIO,

It is not my intention to enter fully into the details The writer has little doubt that in its proper time it of nervous dyspepsia, especially as its clinical picture will be shown that the digestion, assimilation and relis rather vague, and presents a complex of symptoms appropriation (burning) of fat in the economy, and of the greatest variety. But the literature of recent particularly its relation to the proper maintenance years has furnished sufficient data to demonstrate that and rejuvenation of the tissue elements furnish the there are such affections of the stomach, which differ field upon which the pathologist will have to seek materially from the diseases of the chylopoietic sysfor a solution of this anomaly of the connective tis- tem, otherwise described and classified, and which for sue and its lymph spaces. Even the crude concept the present may aptly be brought under the head of tion of oil as a lubricant for man's economy (which "nervous dyspepsia." Doubtless almost every busy is so often likened to an engine), opens a vista of practitioner has met with cases which presented such thought far too vast for the limits of this paper. The vague symptoms, and he vainly looked about for a formation of cells from dividing protoplasm is un-description or a name which might approximately thinkable without the intervention of fat; a conglom- cover the picture presented. Our text-books of erate of cells is easily produced without this separat- recent date make but short mention of it. The ing medium. Indeed, the distinguishing feature be name "nervous dyspepsia" itself betrays the fact tween caseation and softening, and suppuration, that we have no clear understanding of the pathoseems to be the absence of fat in the former. For logical condition further than that the nervous system this, and the poverty of blood-supply (not to forget furnishes the prominent basis of these manifestations. impeded absorption by way of the lymphatics), pro- Anthorities are not agreed yet whether the changes

tion, and removal by the intervention of softening. gastric nerves, and others to the ganglionic system. Whilst in suppuration, hyperæmia in the presence of Another class of cases, again, may be referred to fat produces a rapid multiplication of cells, i.e., the some abnormal condition of the central nervous sysformation of pus corpuseles. These are some of the tem, especially cases due to mental influences, as thoughts which urged the necessity of the use of oil care, anxiety, etc. From this we may see that it is in this disease, cod-liver oil particularly, since it is no easy matter to form a diagnosis at the beginning, one of the most easily digested of fats, and perhaps and that sometimes only the futility of the treatment because its natural combination with iodine makes it instituted for the more common affections of the more capable of entering into intimate relation with stomach and the obstinacy of the case will help to the watery compounds of albunien in the tissues, lead us on the right road. Worse than that, there are thusly facilitating the interchange of fluids and the cases in which post-mortem examination alone will multiplication of cells, and the rejuvenation of the open our eyes, as a late report of a meeting of the tissues. Finally, the use of iodide of potassium is London Medical Society graphically shows. Before again urged upon the profession as a remedy which that great body of highly scientific men Dr. Stephen may yet prove itself the chief anchor in this disease. Mackenzie, in a very instructive paper, mentioned If the author's knowledge of the disease will entitive cases of apparent gastric disease, in which posttle him to an innovation, a suggestion for the treat-mortem examination failed to reveal any certain eviment of it, he will urge upon his fellows, particularly dence of disease of the stomach, though the gastric those connected with large hospitals, the trial of sub-symptoms were even definite enough to excite more cutaneous injections, in the neck particularly, of than a suspicion of the presence of gastric ulcer. iodide of potassium and a small dose of iodide of Indeed, one of the cases had been diagnosticated by mercury—say five grains of the former to gr.  $\frac{1}{5 \cdot 6}$  of more than one physician as a typical clinical case of the latter, highly diluted, and as often repeated as the affection, whereas post mortem it was admitted to good judgment will warrant, as the most rational be a case of apepsia nervosa. Dr. Stretch Dowse, in specific medication which, in the writer's opinion, it the discussion, even ventured the opinion that peris possible to deduce from the nature of the disease, forating ulcers of the stomach were invariably of And, if to this be added a careful observation of all nervous dystrophic origin. Besides the difficulty of the suggestions which experience has sanctioned, to-diagnosis, we may see that such cases even somegether with a never resting battle, by word and deed, times may terminate fatally, at least, that the treatagainst the spreading of the tubercle bacilli, we will ment hitherto applied and recommended is not always. succeed as never before in preventing and curing followed by the desired effect. Such cases are generally looked upon as the crux medicorum, and not unfrequently go from physician to physician, and finally into the hands of quacks.

It may therefore not be out of place here to refer to a treatment which, in the case mentioned below,

striking results the Weir Mitchell method of treat-having heard of some splendid results by Weir Mitchment will accomplish in some grave cases of hysteria ell's plan of treatment in cases of hysteria and neurand neurasthenia, especially when the state of nutri- asthenia. I must confess her appearance at that tion has been very much lowered. And just the ex-time, the pain and vomiting having returned did not perience in a few such cases under my hands has led inspire me with great hopes as to a cure. I therefore me to the remark, made about a year ago before the thought it prudent to propose only a trial of ten days. Sandusky County Medical Society, when the subject of nervous dyspepsia was brought up for discussion, I again put her on milk diet for about a week. Durthat a similar treatment might result in much benefit ing that time she only vomited once after having in the latter affection. The rapid improvement and taken bread with her milk, her pain also had derecovery in the following case, as well as the absence creased considerably. The beginning of the treatof any symptoms of hysteria and neurasthenia, may ment was fixed for December 24, and as she was free well justify the diagnosis of nervous dyspepsia,

had two children, neither of which she nursed her- carried out at her own home, which in hysterical Her health up to one year and a half ago cases should absolutely never be undertaken. was excellent. About that time she suffered from intercostal neuralgia, which, however, was soon re- pains and pressure over her stomach; turning on her lieved by treating a cervical catarrh of the uterus, right side would especially increase her pain, but At times subsequently she would complain of a slight from that time on she experienced a feeling of unpain and pressure in the epigastrium; her appetite wonted well-being and enjoyed excellent sleep. Her did not suffer any, and restriction of diet would soon bowels, which always before showed a tendency to relieve her of those feelings. About the first of constipation, began to move regularly, and after the August, 1885, the patient experienced shortly after sixth day she indulged in a bill of fare of rather libmeals a severe pain in the left epigastric region, which eral selection. As she reached the tenth day, the was frequently followed by vomiting. She would not end of the proposed period of trial, she concluded admit any error in her diet, and it was impossible for to continue the treatment up to the end of six weeks, me to find any other cause for her symptoms. Re finding that the stomach made not the slightest repeated examinations of the urine and sexual organs monstrance against those enormous quantities of food revealed nothing abnormal. She could bear very little which Mitchell and Playfair urge upon their patients. food, and the various medicinal agents which her In this manner she uninterruptedly followed the road gastric symptoms and pain called for had merely a to recovery, and although she has not accumulated palliative effect, pain and vomiting would frequently such a mass of adipose tissue as some would perhaps recur. A case reported by Glax (Volkmann's Klin. lay up, she now presents a picture of perfect health. Vorträge, 223), which exhausted all his therapeutical skill and change of climate without any avail, and finally, after he became dropsical, resorted in his despair to exclusive milk diet with the result of complete recovery, induced me to order such, a diet in my case. It had the effect of lessening pain and vomiting; in fact, subdued it entirely, until she again tried more substantial food. This milk diet she with proper feeding, might possibly give her some the middle of August, signs of the extension of the

had a surprisingly rapid effect. We all know what benefit, when she enthusiastically took up the idea,

As her nurse was not just ready to begin massage, from any signs of hysteria and imbued with such im-Mrs. B., act. about 27 years; married five years; plicit confidence in the result, the treatment was

In the first four days Mrs. B. complained of slight

Fremont, Ohio, February 22, 1886.

## MEDICAL PROGRESS.

THORACIC ANEURISM TREATED BY THE INTRODUCkept up for about six weeks, which markedly im. TION OF STEEL WIRE INTO THE SAC .- At the meeting proved her symptoms, although the emaciation made of the Royal Medical and Chirurgical Society, on steady progress. Beef peptonoids, which also were February 23, Dr. W. CAYLEY read the report of this tried, produced nausea and vomiting, I think princicase: The patient was a man, aged 48, who was adpally owing to their looks and taste. Although Mrs. mitted into the Middlesex Hospital on June 5, 1885. B., who in her health was always of a very patient He had been suffering from symptoms of a thoracic nature, exhibited, pari passu with her gradual emacianeurism, since November, 1884, but it was not till tion, some irritable disposition and signs of weakness, five days before his admission that a pulsating tumor she never showed any real symptoms of hysteria or made its appearance at the root of the neck, rising neurasthenia. About the beginning of October she about three inches into the neck behind the right visited her parents living in a larger city, and was sterno-clavicular articulation. The patient was at there under medical care. During her visit her condition was only changed to the extent that her stomach could bear solid food and turned against milk, but her emaciation continued. Indeed, in December 1 but her emaciation continued. Indeed, in December 1 but her emaciation continued to increase in size, and it was evident that it must either soon burst externally, or extravasate among ber, when I saw her again, I found her reduced to a the tissues of the neck. On June 24, Mr Hulke inskeleton, and could hardly suppress the idea that a troduced into the sac, through a fine canula, forty deeper organic change was at the bottom of her com- feet of steel wire. This caused no constitutional displaint. I accidentally dropped the remark in presturbance or local pain, and this portion of the anence of patient that general massage and rest in bed, curism became completely consolidated. Towards

intrathoracic portion of the aneurism-increasing of the aneurism, just at its point of junction with its dyspnœa, and severe paroxysmal cough—became entrant artery. The aneurism, after death, was found more marked, and there was an increase of pulsation to have in part consolidated, a result he was inclined behind the sternum, and towards the left sterno- to attribute to its manipulation, rather than to the clavicular articulation. As it was evident that the small quantity of wire introduced. The ninth case aneurism must soon prove fatal from pressure on the was this now before the meeting, of Dr. Cayley's and trachea, it was determined to endeavor to consolidate Mr. Hulke's in which the man had survived the opthe part of the sac producing this pressure. Accorderation eighty-six days. The record could not be ingly, on September 10, Mr. Gould, in the absence considered encouraging, and for his own part, he had of Mr. Hulke, introduced a canula just above the not been tempted to adopt the operation. left sterno-clavicular articulation, directing the instrument obliquely towards the middle line, and introduced thirty-four feet nine inches of wire. No con- in 1874, which he had treated in a somewhat similar stitutional disturbance followed, but no relief was manner. A native had been brought to him with a given to the symptoms, and the patient died in a very large innominate aneurism, bulging forward on paroxysm of dyspnea on September 19. On post the left side of the sternum; into this he had passed mortem examination, a large aneurism was found fifteen feet of white cleansed horsehair. Slight pain springing from the ascending part of the arch, and and pricking over the tumor had followed. In three by a clot, embedded in which was the wire. The vulsion. No search for emboli was made.

Wall of the ancurismal sac, where it projected into the neck, consisted only of a little condensed connective tissue. The lower portion of the sac, near was disposed to think it applicable to more cases than was disposed to think it applicable to more cases than

operation ineffectual. \( \square\$ might take place in the brain or kidneys; and, thirdly, consider the treatment most justifiable, and also in from the ulceration in the sac, which might be caused the case of abdominal aneurism. by the end of the wire. Mr. R. BARWELL could

communicating with the vessel by a very large orifice; days the tumor had grown larger, and gave greater the whole of the upper portion was completely filled distress; on the fourth day the patient died in a con-

its origin from the aorta, caused compression and was generally imagined. Of course it could only be flattening of the trachea, just above its bifurcation. thought of in those in which pressure, or manipula-The first operation produced the desired result in pre-tion, or ligature, was quite impossible. All such venting the imminent rupture of the aneurism. The forms had but a faint chance; but in them the introsize and connections of the sac rendered the second duction of a foreign body should be attempted, if they were within reasonable reach. He preferred THE PRESIDENT congratulated Dr. Cayley and Mr. horsehair, or fishing gut, or catgut to wire; for the Hulke on their prolongation of the patient's life. He danger of irritation from wire was considerable. In had seen all cases of large thoracic aneurism under his own case, to which Mr. Barwell had referred, the his care die, except one, and that was in a man of man was dying of ulcerative endocarditis; his treat-70, who died of old age thirteen years after clear ment of the popliteal aneurism with horsehair, had signs of a large thoracic aneurism had shown them consolidated it, and had so far lengthened life that it selves. The dangers from this treatment by the introduction of wire, he was inclined to think threefold; minent. In applying the treatment to aortic aneurism. first from the local irritation induced, as had happened the greatest difficulty would be in diagnosis; but, in Mr. Moore's case; secondly, from embolism, which granted that that could be ascertained, he should

MR. HOLMES said that he felt strong encouragehardly think that the value of this method was as yet ment from Mr. Bryant's case, for the specimen showed thoroughly determined. He believed that this was clearly the progress that had been made towards cure; the ninth published case. The first was Mr. Moore's and Professor Loreta's case tended to the same conwell known case; the second, a subclavian aneurism, clusion. He could not agree with Mr. Barwell, that into which Dr. Levis had introduced horsehain; the in that case the consolidation had been brought third, a case of popliteal aneurism, into which Mr. about by manipulation; a careful examination of the Bryant had also passed horsehair; the fourth, a case specimen showed the wire as the focus of the clot. of innominate aneurism, under Dr. Rubio, of Madrid, The method had been originally suggested in a meeting treated by wire, which showed no change of symp- of the Society, by Dr. Murray, of Newcastle, and he toms during the first four days, but after that was was under the impression that he had made some lost sight of, and must be presumed to have died; trials of it. To him they also owed the suggestion the fifth and sixth cases, under Bacelli; the seventh, of the method of rapid compression under chloroa brachial aneurism, under Van der Meulen, into form. There were many cases in which their choice which catgut was introduced, a proceeding which deserved considerable attention, as it avoided irritation; the eighth, a remarkable case of abdominal aneurism, under Professor Loreta, which was treated by abdominal aneurism for the apparatus of inal section and separation of the aneurism from its selli. In Mr. Moore's case, thirty-six yards of rather surroundings, and the introduction of six and one-rigid wire had been used, and he had little doubt it half feet of wire. The case did well till the ninety- was too much, and had set up inflammation; but he second day, when the man died suddenly of rupture had no hesitation in recommending, with Mr. Bryant, either horsehair or catgut, and of the two he rather preferred horsehair, as it does not melt away (which is anæmia.

the chief objection to catgut).

MR. HULKE disclaimed any credit for the paper, anæmia. which was entirely due to Dr. Cayley, but was glad to find that the subject aroused attention. The of anæmia, but in a condition of mercurialization. President had suggested three dangers from the operation; the first was of local irritation. In Mr. Moore's case, the wire was of soft iron, which might blood-globules and of the hæmoglobin could be obeasily have passed into the tube of the aorta, not served in the course and at the end of the mercurial tempered steel, as in Dr. Cayley's case. For his own treatment. part, he had still to learn any method of distinguishing whether the opening from the aneurism into the be noted, both the number of blood-globules and the aorta was large or small. The steel wire which he had used had been carefully coiled beforehand, on a mandril half-an-inch in diameter, and he presumed that it would coil up again within the aneurismal sac. He passed the wire through a Southey's canula, in which were lateral holes; when sufficient had been passed, the end was cut with some effort, and slightly bent; this bent end caught in a hole in the canula, and when the canula was withdrawn, the end of the wire was left out, and pinned the coil of the wire in the aneurism to the chest-wall. That seemed at first unfortunate, as leading to some bleeding; but very possibly its counter-balancing advantages were greater, for it made it impossible that the coil of wire should fall from the aneurism into the main stream of the aorta. If horsehair or catgut were used, he could not feel sure how or where they would travel in the aneurism, nor could they be made certainly aseptic; catgut might be carefully treated, and yet give deadly results if it had been taken from animals dying of milz-brand. Of the possible methods of treatment, he considered the injection of ergotin in the neighborhood of the aneurism, as suggested by Von Langenbeck, as no longer worth discussion; the treatment of electrolysis in his own hands had proved positively disastrous; if the needles used were fine, they grew hot, and caused sloughing; if they were insulated, great force was needed to push them through the sac of the aneurism. The only remaining treatment was that by wire, and the arguments for that were in some cases strong.

Dr. Cayley considered that the risk of embolism, which the President had suggested, was not serious; it had occurred in Mr. Moore's case, not from the treatment of the aneurism, but from the ulcerative endocarditis. He admitted that it was impossible to be certain in any diagnosis of a large opening into the artery from a small one; but, roughly speaking, a louder bruit indicated a narrower opening. He was able to assure Dr. O'Connor that there were no bubbles either in his case or in Mr. Moore's.—British

Medical Journal, February, 27, 1886.

ACTION OF MERCURY ON THE BLOOD IN SECONDARY Syphilis and in Anæmia.—The influence of the salts of mercury on the circulation has been recently the subject of a most thorough and strictly scientific clinical study by Dr. L. GAILLARD (Archives Genérale de Médecine, November, 1885). The subjects on whom the first series of observations was instituted and the condition of the blood.—Therapeutic Gazette, comprised:

- 1. Syphilitic patients without or with a slight
- 2. Syphilitic individual with an advanced state of
- 3. Syphilitic individual also with an advanced state

Gaillard's conclusions are as follows:

In the first group a diminution of the number of

In the second group a favorable result could rapidly hæmoglobin increasing considerably and in a short

The subject of the third observation was not improved. The anamia had no tendency to disappear, even after the effects of mercurialization had passed away. There was an evident intolerance of the drug, which must be borne in mind both regarding prognosis and the estimation of the therapeutic result.

Comparing these results, we see that the second category, representing syphilis and anæmia, profits most from the tonic and reparative action of mercury. It is hence in these patients that we can look upon mercury as a restoring and augmenting agent of both blood-globules and hæmoglobin. This refers only to the red blood-corpuscles; the white ones were nevertheless counted by Gaillard in each instance. Their number appears to diminish under the influence of mercury, as has also been as early as 1874 by Wilbouchewitz. [Still it appears hazardous to make any definite statement in this respect. We all know the instability and variance locally and numerically of the white blood-corpuscles. Remembering their abundance in persons affected with even slight suppurations, we would not be surprised to see them decreasing in a woman suffering with vaginitis after the cure of the local trouble.]

The second series of observations refers to the action of mercury on the blood in anæmia. The patient took ordinary doses of either the protoiodide of mercury or of the sublimate. The obtained results

are comprised in the following theses:

1. The number of red blood globules can decrease in anæmic persons under a mercurial treatment in the beginning without reattaining the original numeical status. More frequently, however, they increase in number progressively up to the fourteenth day, when a slight reduction takes place again.

2. The hæmoglobin increases daily and progressively up to the twenty-fourth day; then it is reduced toward its original figure, but surpassing it still, if the

treatment lasts for several weeks.

3. The hæmoglobin increases more considerably in proportion than the red blood-corpuscles. It increases even when the latter diminish in number, so that mercury can be placed alongside of those metals which elaborate hæmoglobin.

4. The bodily weight increases nearly constantly under a mercurial treatment. Still, we are unable to establish an exact relation between this phenomenon January 15, 1886.

THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor. SUBSCRIPTION PRICE, INCLUOING POSTAGE.

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JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, No. 65 RANGOLPH STREET,

CHICAGO, ILLINOIS,

#### SATURDAY, MARCII 27, 1886.

#### THE ETIOLOGY AND PREVENTION OF RABIES.

At the meeting of the New York County Medical Association on March 8, Dr. HERMAN M. BIGGS, Instructor in the Carnegie Laboratory, who recently visited Paris to study Pasteur's methods with regard to rabies, read a paper on "The Etiology of Rabies and the Method of M. Pasteur for Its Prevention." It is not necessary to give in detail his argument for a specific origin of the disease. Suffice it to say that he expressed the opinion that the occasional spontaneous development of rabies in certain of the carnivora, as advocated by many distinguished veterinarians, must be entirely rejected in view of the facts recently demonstrated with relation to the germ diseases, and that we must accept absolutely the conclusion that this disease is maintained and spread solely by its contagious principle; there being no other causes in operation. Hence it is a living organism (whatever may be its nature), which the treatment, the boy still remains in good health. is the essential cause of the affection, can no more bring about the specific disease which we call rabies phylaxis against rabies afforded by his method, by than can the wound made by a sterilized knife.

In regard to the nature of this contagium vivum, said Dr. Biggs, we have no absolute knowledge, except that it must be a living matter capable of reproduction and multiplication when transferred to the living organism, and there producing a specific disease manifested by varying symptoms in the different species of animals affected; of whose presence or virulence we can only know by the results produced when introduced into the blood of previously healthy animals. That it is exceedingly minute is shown by the difficulty experienced in its demonstration, and that it is a micro organism belonging to the schizomycetes is rendered probable by the similarity to other known pathogenic micro-organisms, as regards the mode of its transmission and development. Some of the conclusions arrived at by Pasteur in his earlier work have not been confirmed either by his own later investigations or those of other observers, and are in some respects opposed to the results recently reported. Unfortunately, too, in his last communications he has not discussed the question so much in detail as could be desired, nor has he given definitely the number or character of the experiments upon which his conclusions and the general principles drawn from them are based. The efficacy of Pasteur's present method was proven by inoculating fifty dogs, with success in every case in rendering the animals refractory to rabies. After having arrived at these results Pasteur felt justified, after consultation with MM. Vulpian and Grancher, in inoculating the boy Joseph Meister, who unexpectedly presented himself for treatment July 6, 1885. In order to determine the virulence of the virus used in this case two rabbits were each day inoculated in the usual manner with the same virus as that used for the boy. These inoculations showed that the cords used on July 6, 7, 8, 9 and 10 were matter of great importance that the fallacious ideas not virulent, since they did not produce rabies in the prevalent among the laity, and to no small extent rabbits inoculated on these days. The cords used on among the profession, in regard to the influence of July 11, 12, 14, 15 and 16, however, were all virulent, climate, season, hunger, thirst, food, pain, anger, un- and of a constantly increasing virulence. Rabies gratified sexual desire, etc., as predisposing or excit- appeared after seven days of inoculation in the rabing causes, should be corrected. There are no more bits inoculated with the cords of July 15 and 16, after reasonable grounds for believing that any or all of eight days in those of July 12 and 14, and after fifteen these influences combined can bring about the devel- days in those of July 11. Notwithstanding that in opment of a single case of rabies, than that unfavor- the last inoculations virus was used which was far able sanitary conditions can produce small-pox when more virulent than that of rabid dogs which have the specific contagium vivum of that disease is not contracted the disease in the ordinary way, these inpresent. A wound or injury produced by the teeth of oculations were followed by no symptoms whatever, a non-tabid dog, one whose saliva does not contain the and though more than six months have elapsed since

The interpretation which Pasteur gave of the prowhich an alteration in the virulence of rabic cords is produced by the process of dessication, was, that the beings. In concluding his paper Dr. Biggs frankly continuous contact of the dry air brings about a gradual diminution in the intensity of the virulence of the cords, until it finally becomes extinct; that the prophylactic method in its application depends for its efficiency upon the employment at first of a virus without appreciable activity, followed by a weak virus, and then by a more and more virulent form: that the diminution of the virulence of the cords is due to an impoverishment in quantity of the virus contained in the cords, and not in the impoverishment in virulence. Consequently, in the inoculations, the virus used is always identical as regards its virulence, and is variable only in respect to the quantity employed; so that the condition refractory to rabies follows from the employment of very small, but constantly increasing, quantities of virulence. This interpretation of the method of action of the virus, said Dr. Biggs, is the more interesting, inasmuch as a new and quite different principle is involved from that obtaining in the vaccine for small-pox or the vaccines devised by Pasteur for the prevention of anthrax, chicken cholera and typhus in pigs. In small-pox we have a virus modified in character and virulence by its passage through another species of animal; in anthrax, chicken cholera and typhus in pigs we have a virus modified in respect to its virulence by the conditions of temperature to which it has been subjected during been experimenting with a disease which almost withits developmental growth; and, finally, in rabies we have a prophylactic method dependent upon the employment of a virus always constant as regards its virulence, but used in very small and constantly increasing quantities.

rables) after inoculation, Pasteur believes this to be a period of incubation in rabbits of fifteen days. not less than one year, probably considerably longer; After cultivation the inoculation in rabbits is seven but as yet no data are available on this point. With days, and in dogs eight or nine days. In regard to regard to the conclusions as to the accuracy of Pas- the suggestion of Dr. Flint, Jr., that control experiteur's observations and methods, Dr. Biggs thinks ments should have been made, such as the injection that the strongest evidence of the efficacy of the of bouillon subcutaneously, to which no spinal marmethods for the prevention of rabies rests upon the row was added, Dr. Biggs said that inoculations had results of the experiments upon dogs. If Pasteur been made subcutaneously and into the veins, instead had been able not only to render fifty dogs refractory, of under the dura mater after trephining; the only development of rabies in a larger number after they the period of inoculation was longer under these had been bitten-both of which he asserts he has circumstances. The reason why Pasteur adopted positively accomplished-then the question as to the the method which he now employs was because he prevention in human beings is only as to the method found, after many experiments, that with it the period of application. Dogs are far more susceptible and of inoculation is shorter, and the process more cerliable to the disease than human beings, and the chartain, than when any other method is used. Pasteur acter of the disease being evidently the same in both, has inoculated dogs which were placed in cages with if dogs can be made refractory it is not assuming too and had been bitten by rabid dogs; and in not a much to conclude that the same is true of human single instance did rabies result. These experiments

acknowledged that the evidence as to the efficacy of Pasteur's methods is not altogether satisfactory. But in the light of his former brilliant and valuable scientific work is it probable that he could have spent six years of study to rabies without getting some substantial result? Or does it seem probable that he has been dealing all these years with some form of septicæmia, as has been suggested; laboring under the delusion in the meanwhile that it was rabies? This I cannot believe; and if it is not true, then Pasteur's conclusions must be in the main correct, for certainly no one will question his honesty."

As to the spinal marrow being employed as the agent for transmitting the virus, Dr. Janeway said, in the discussion of the paper, that it seemed to him entirely appropriate: the manifestations of the disease showed that the germ of the disease was in the spinal cord and medulla oblongata as well as in the saliva; or, if this was not the case, that it circulates as a specific poison in the blood and acts as an irritant upon the nervous centres. He thought that there was no reason to doubt that dogs had been made refractory to rabies by Pasteur's method, while in human subjects it had at least proved harmless in more than three hundred cases.

It is an indisputable fact that Pasteur has for years out exception runs the same course and produces the same symptoms; the period of incubation in rabbits being always about fifteen days. We must entirely agree with Dr. Biggs that if, as some assert, this affection be a form of septicæmia, if must be an entirely As to the duration of the refractory condition (to new form, since no variety of it is known which has without a single failure, but had also prevented the difference that had been noted in the result was, that

have been frequently tried under the supervision of to obscure the whole subject in a verbose fog of unthe official commission appointed to investigate the warranted assumptions. matter; and this evidence is of the greatest importance prophylactic inoculation of rabies.

#### "ACADEMIC STUDIES IN RELATION TO MEDICINE."

In the department of Domestic Correspondence in this issue of THE JOURNAL will be found a letter on this subject by Dr. R. LOWRY SIBBET, of Carlisle, Pa. It will be remembered that Dr. Sibbet read a paper at the last meeting of the American Academy of Medicine entitled "The Study of Medicine as a Means of Education," which was editorially noticed in THE JOURNAL of January 9. The present letter from Dr. Sibbet must be taken, it seems, as a reply to our editorial notice of his paper.

It is an evidently untenable proposition to say that any educated man, with large experience in any direction, is in a position to tell a boy what studies he should pursue as preliminary to the study of medicine. The President of Yale College is an educated man, and one of large experience; but surely he is no more fitted to speak dictatorially on this subject than many a we'll-read, clear-headed physician who sees reflected in himself the evils and mistakes of the oruse of the words "mathematics" and "languages" State Board of Health. is entirely too broad for this discussion. We showed useless to repeat what was then said. Hence we cannot argue the matter when our correspondent fails altogether to define his position, which is entirely different, as we shall show, from that taken in his first paper. In that paper he mentions only two languages, Latin and Greek. In point of training value one language has no advantage over another. It is a very simple matter to define and specify the mental processes involved in studying different subjects, and

In the propositions stated under (1) Dr. Sibbet in establishing Pasteur's claims as to the efficacy of argues entirely beyond the question at issue. No one has proposed that medical men, or those of any other profession, should regulate education or the curricula of colleges. He asserts in his first article that a man must be thoroughly grounded in Latin, Greek and mathematics in order to be fitted for the study of medicine. We denied that those studies are absolutely essential for a preliminary education for medicine, or for training the mind, intellect or faculties (or whatever we choose to say), and we gave our reasons for the denial. Dr. Sibbet has not shown that our reasons are incorrect, nor has he asserted that we reasoned from insufficient data. He adduced no proofs of his assertion, but evidently, as is so often the case, the assertion was made on the authority of that long list of classicists who have said the same thing over and over over again without bringing forward one iota of proof, or giving any reasons for it that would stand analysis. In his first article he did not refer to the value of scientific education (academic) or to science at all, except so much "as is usually taught in respectable classical colleges"which means, usually, none at all. Why then does he now speak of "elective courses," which, as would be dinary classical course. "An educated man" is a inferred from his article, he does not recognize as relative term, with nothing fixed or definite in it. We proper courses of study? It is seen that he has now cannot reason correctly unless we know the data changed his base of argument almost entirely, as he from and upon which we reason. It is incorrect to really acknowledges that a youth may, after all, be say that one who has not pursued a study (such as educated without being forced through the classical mathematics) for a series of years is not in a position course. It is a mistake to say that the medical proto judge of its relative value as a means of education, fession in the United States has ignored every stand-In view of the statements made in his paper before ard, academic and medical, and in proof we may the American Academy of Medicine, Dr. Sibbet's point to the Seventh Annual Report of the Illinois

His answer to the question. Where should a student in our editorial that there is a great difference be- who desires a good education prepare for the study tween ancient and modern mathematics; and it is of medicine? is: in a classical, scientific or literary institution. How does this accord with what he says in his first article: that the student (before studying medicine) has "studied mathematics, languages, rhetoric, mental and moral philosophy, and as much chemistry, geology and astronomy as is usually taught in respectable classical schools. . . . . To all such we would say that they have laid a solid foundation upon which to add professional studies. Their education has been in all directions; not merely one this is all that is required in determining the training class of mental faculties, but all have been exercised value of any subject or study. To deny this is to and disciplined." If an education in all directions confound the machinery of thought with thought it- can be obtained in a classical school, it must be eviself, to mislead ourselves and make no progress, and dent that such cannot be the case in any other school,

since the methods in the different schools are essenti- "The acquisition of knowledge and mental discipline ally different. He has thus placed himself in the anomare therefore dependent upon certain conditions. alous position of recommending schools which, as he . . . No one would think of dispensing with books, has shown, he considers objectionable. But the truth instructors and institutions." Books may be and is a liberal allowance for the age of our classical sys-1600 the studies in arts are defined as Latin, Greek, Aristotle's Philosophy, and Euclid. Scientific and literary studies had no part or lot in the education of that period. Inasmuch as our science of to-day can scarcely be said to be one century old, it is manifestly absurd to say that it has been advocated for many centuries. It is not less absurd to hold that the preliminary education for the medicine of one-hundred years ago will fulfil the requirements of to-day.

It should be remembered that in speaking of the study of science we do not refer to getting lessons from text-books, but to the study of it in the laboratory. Canned science-that obtained from booksis not wholesome brain food. It is unreasonable to talk of special schools for the preliminary study of a particular profession. There is no need for them if instructors would study the pupils instead of making the pupils study them. The single fact that the elementary principles of chemistry and physics are "taught" in the medical schools is conclusive proof that they are not properly taught in the academic schools. On this subject we have already expressed our opinion in The Journal of May 2 and June 6, 1885. In this connection we take pleasure in referring to Dr. A. L. Gihon's Presidential Address before the American Academy of Medicine (at the same meeting at which Dr. Sibbet's paper was read), the more so because he plainly shows that he does not agree with some members of the Academy in thinking that a boy's mind must be matured on Latin, Greek, mathematics and canned science.

Finally, it may not be amiss to compare Dr. Sib- the following facts will show: bett's letter in this issue of THE JOURNAL with some

is, there is no system of education which will educate often are dispensed with in teaching science. The in all directions. He evades the question, which he quotation can therefore refer only to classical educaasks, What shall a student, who desires a good edution. In the requirements for admission to medical cation, study until he is capable of deciding what he colleges, he tells us, "classical studies are generally should do in life? His statement, under this ques-treated with indifference." We know that scientific tion, that educated men in all countries and for many studies are equally disregarded; why is not the fact centuries have presented and advocated a combined mentioned? Again, "Shall we tell it in New York classical, scientific, and literary course of study as that the oldest university in America does not require the very best that can be devised for young men who a knowledge of the five declensions of Latin nouns desire to enter the learned professions, is singularly for matriculation in her medical department?" That inaccurate. Three centuries are not many; and that is certainly not so disgraceful as not requiring a knowledge of the elements of natural science. "Antem. In the statutes of the University of Paris of other portion of our profession—possibly one-fourth -have advanced as far in algebra as quadratic equations, and in geometry as the pons asinorum. . . . In Latin they have reached the Bucolics of Virgil, or the Jugarthine War by Sallust, and in Greek the third book of Xenophon's Anabasis. Of rhetoric, logic, mental and moral philosophy they know nothing." From this it seems that he does not consider scientific principles as of any importance whatever. Again, "But what shall we say of the remaining half of our profession? . . . . They have never even glanced at the academic studies referred to, and consequently they are without the mental discipline and training which these studies always bring. . . . The student must become an active agent, not merely a passive one. He must work out problems in mathematics for himself, if he has not done so; he must translate foreign languages into good English, if he has not done so; he must prepare an original essay every week for four or five years, before he is properly prepared to study medicine." It seems absolutely useless to talk of scientific schools and scientific education until the papers from which these quotations are taken are retracted; and until this is done we beg to take leave of the subject.

#### INTERNATIONAL MEDICAL CONGRESS OF 1887. PROGRESS OF ORGANIZATION.

The statement in some recent medical journals to the effect that the progress of organization for the International Medical Congress of 1887 "seemed to have come to a standstill," is by no means correct, as

Soon after the final meeting of the General Comof the statements in his first paper, as in this way we mittee on Organization appointed by the American may more easily see how high a valuation he sets Medical Association in September last, at which the upon science and scientific schools in education: said Committee adopted entirely satisfactory Rules for the Congress, selected the general officers, and chief officers of the several Sections, thereby developing under their Rule Ten an independent Executive Committee of the Congress, authorized to take charge of the entire interests and further management of the organization, the said Executive Committee held a full meeting in November and organized for their work. The President and Secretary-General were instructed to issue a preliminary circular giving the general officers selected and the Executive Committee, together with the Rules in English, French, and German, and distribute the same both in Europe and America. At the same meeting sub-committees were these patients. Mitral obstruction is due to a fusing appointed on all the more important items of unfinished business, to report at another meeting of the Executive Committee to be held in a few weeks from this time. These sub-committees have been quietly but diligently prosecuting their work so successfuly that at the next Executive Committee meeting there will be neither difficulty nor delay in filling all vacancies needed to make the preliminary organization of the Congress complete, and be ready to proceed directly with the preparation of the details for the final programme for the work of every department of the Congress. The local committee of reception and arrangements at Washington, with Dr. A. Y. P. Garnett for Chairman, has increased its members to fifty, acting in harmony, and for more efficiency in execution, divided into seven sub-committees, with each its allotted part of the work to be done.

This is a guarantee that every possible arrangement will be made for the interests and comfort of those the mitral area and not at the centre of the sternum. who may attend the Congress from any part of the world, and that active efforts will be made to secure the lowest rates of travel on ocean steamers and railroads for those coming from other countries, and in regard to which timely notice will be given. With the aid of the Associate Secretary-General in New York the circulars anouncing the Preliminary Organization and Rules of the Congress were freely distributed in foreign countries, and its reception was immediately followed by cordial responses, which have continued to be received almost daily at the office of the Secretary-General from many of the countries of Europe, more especially from Great Britain, France, Germany and Austria, giving assurances of personal attendance, promising communications for certain Sections, and asking for further information. Instead, therefore, of a "standstill," the work of preparation for the Congress of 1887 is progressing rapidly and successfully towards completion. We have deemed it proper to make the foregoing statement to prevent in which the entire vesico-vaginal septum, the vaginal misapprehensions, and for the general information of portion of the cervix, and anterior wall of the cervix the medical profession at home and abroad.

# SOCIETY PROCEEDINGS.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, March 15th, 1886.

THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR.

DR. ROBERT H. BABCOCK made remarks on

TWO CASES OF MITRAL STENOSIS, WITH PRESENTA-TION OF THE PATIENTS.

Dr. Babcock said that he did not intend to give any discussion of mitral stenosis, but merely desired to present a few points of interest in connection with together of the valves so that they project into the ventricle in the form of a funnel, which, according to many authors, is the most frequent form of stenosis; according to others, the obstruction is due to a septum like valve stretching across the opening, and called the diaphragmatic valve. Owing to the obstruction to the flow of blood from the auricle into the ventricle a murmur is produced which is rolling, or blubbering in character, and, occurring during the auricular systole and previous to the systole of the ventricle, is called pre-systolic or auriculo-systolic. This murmur has been graphically represented by Balfour as in some cases resembling the sound of voot-rrrb, the final t or b being the sudden, abrupt first sound produced by the ventricular systole.

In some cases no pre-systolic murmur, correctly speaking, is heard, only a diastolic murmur which, being loudest at the apex in the mitral area, is a mitral diastolic murmur. This murmur should be differentiated from the diastolic murmur of aortic regurgitation which, in certain rare cases described by Balthazar Foster, has its maximum of intensity in

In the two cases Dr. Babcock presented the murmurs differed from each other in character, in the one case the murmur being very distinctly represented by the letters voot, in the other by rrrb. The doctor was disappointed at the last moment by his inability to present a third patient, a man in whom the stenosis was indicated by a mitral diastolic murmur which followed an impure first sound of heart, and both the impure first sound and the diastolic murmur were in this case audible at the lower angle of the left scapula. The propagation of the diastolic murmur so far to the left is very unusual; indeed, the production of the mitral diastolic murrour is itself very rare, and is probably due to the fact that a rush of blood from the left auricle to the ventricle occurs with greater force at the beginning of the ventricular diastole than during the auricular systole, the auricle being dilated rather than hypertrophied, according to Sansom. The cases were then examined by members of the

Dr. E. C. Dudley reported a

UNIQUE CASE OF VESICO-VAGINAL FISTULA,

to the internal os had sloughed away, leaving no

bladder tissue between the inner extremities of the sloughed away. His surmise might be correct with urethra and the points at which the vesico-uterine reference to certain tissues between the bladder and ligaments connect the bladder with the uterus. The cervix uteri which might have retracted and become only operation which seemed possible was to unite adherent by inflammation, so as actually to form a the posterior wall of the cervix uteri with the neck portion of the bladder wall. Moreover, there is always of the bladder. This would turn the uterus into the bladder and necessitate menstruation through the between vaginal and bladder membrane, and the urethra. The anterior wall of the uterus could not membrane in this case was to all appearance like that be approximated to the neck of the bladder, but it of the rest of the bladder, and to the touch gave the was found, on further examination, that the mucous sensation of a thin wall. Dr. Baker, of Boston, reto close the fistula in this way by denuding a strip of of the lost vaginal wall. the mucous membrane of the bladder from side to side an inch in front of the uterus, and thus he utilized that portion of the bladder between the line A CASE OF REMOVAL OF THE ENTIRE LOWER JAW of denudation and the uterus, and made it a substitute for the lost anterior wall of the cervix and vesicovaginal septum. Twenty-two silver wire sutures were employed after Sims's method. Union by first intention followed, notwithstanding the failure of the nurse the third day to keep the catheter in situ, which allowed several ounces of the urine to accumulate in the bladder. Notwithstanding the decrease in the size of the bladder necessitated by the operation, the patient experiences no difficulty in retaining the urine all night. The operator is not aware that another case of this kind has been previously reported.

drawn up and into its position.

lost, it is yet possible their openings into the bladder lowed by death in thirty-six hours. may be preserved, because the ureters penetrate the muscular coats nearly an inch from their normal whom he had performed an operation for points of opening through the mucous coats of the bladder, and run obliquely between the two coats for

membrane of the bladder, if caught with the tenac- ports a case similar to this in that he introduced suulum about an inch in front of the uterus, could be tures into the bladder tissue, but so close to the drawn to the neck of the bladder and held without cervix nteri as not to draw down any portion of the undue traction. The operator therefore undertook interior of the bladder, to be used as material in place

DR. W. L. AXFORD reported

THROUGH THE MOUTH.

Harry T., aged 5. Admitted to St. Joseph's Orphan Asylum in November, 1885. It was noticed that his mouth was frequently swollen and sore. Child very much emaciated. In January, 1886, he had measles. Tedious convalescence followed. Came under observation about February 1. Weak and thin. Lower part of face very much swollen. Breath offensive. Symphysis of jaw bare. Could not examine further at this time. Pulse 120 to 130. Put the child on supporting treatment, hoping to get him in condition for an operation. No improvement at the THE PRESIDENT asked if it was not possible that end of two weeks. February 16 the patient was some portion of the upper wall of the vagina was anæsthetized and the mouth explored. Found the drawn upwards and backwards by the bladder, and jaw on either side stripped of its periosteum back to what was taken to be a continuous wall of the blad- the masseters. Determined to attempt removal der might be a part of the vagina. He had seen a through the mouth, as any cutting operation involvcase where there was a large laceration into the blad- ing the loss of much blood would have been fatal at der, and the opening seemed one cavity with con- once. Divided the jaw on either side of the symphytinuous walls, but the flap thrown backwards was sis with bone pliers and thus removed a large portion post-vaginal, and it was found that this flap could be of the body. Seizing the remaining pieces with sequestrum forceps and making moderate traction, DR. E. C. Dudley, in answer to questions, said they were easily enucleated by the index finger of that the loss of tissue at the base of the bladder from the left hand. Not more than a tablespoonful of sloughing differs from that by incision. In the latter blood was lost. Patient rallied well. Some reaction case the ureters would perhaps be included in the ex- on second day. On third day the pulse had dropped cised tissue, but it is seldom that a slongh of the base to 116, and with exception of a swollen parotid on of the bladder in vesico-vaginal fistula, however exthe left side, the child was in better condition than
tensive, destroys the connection between the bladder before the operation; so much so that a recovery was and kidneys. Even if the points through which the confidently predicted. A severe attack of diarrhea ureters penetrate the mucous coat of the bladder be occurring on the morning of the fourth day was fol-

Dr. Arnold P. Gilmore exhibited a patient on

#### SYMBLEPHARON OF THE LOWER LID,

a distance of nearly an inch. In this case, as in due to a burn by molten iron, and in which three many cases of loss of entire base of bladder reported plastic operations had been unsuccessfully performed. by Emmet, the openings of the ureter were on either. Nine months previously the entire lower lid, from side, at the very margins of the fistulous opening, external to internal canthus, was adherent to the eye-The operation was performed at Morton, Ill., in ball, covering almost the entire cornea. This trianthe presence of Dr. Harris, of that place, and Dr. Mansfield, of Metamora. Dr. Parkes's surmises with reference to the vaginal wall could hardly be corlower lid and transplanted the conjunctiva of a rabrect, because this, together with the anterior wall bit. For six weeks the operation was apparently of the cervix uteri up to the internal os, had successful, but after an absence of two months from

the city he found the lid was again becoming adher-sible, by drawing together the healthy skin or tissue Six weeks previously Dr. Gilmore made a between the two ends of the divided cicatrix. thorough dissection, freeing the lid and making a deep method has long been in use in general surgery. So cul-de-sac, leaving the upper half of the eyeball cov- far as his experience went the application of any forered by mucous membrane and the lower half bare. eign body between these divided surfaces has never A semicircular band of conjunctiva, one-third inch been followed by success, so far as prevention of wide, close to the cornea above, leaving a bridge of tissue at each end. This band was dropped into the cul-de-sac below and carefully stitched to the ball. A semi-circular plate of silver long enough to fill the space between the external and internal canthi, with two holes at the circumference, one-half inch apart, threaded with silver wire, was dropped into the culde-sac to prevent adhesions, and fastened by bringing the wires through upon the face and fastening them by small lead plates and perforated shot. For this operation Dr. Gilmore claimed priority. The object of the operation was neither to improve the appearance of the eye nor to restore vision, but to relieve the irritation of the other eye, by allowing coordinate movements of the two eyes. There was enough clear cornea left to make an artificial pupil in case the patient ever lost his well eye. There was little reaction, and at no time much pus, while the well eye has grown stronger in spite of the presence of the

Dr. TILLEY thanked Dr. Gilmore for showing this case, but thought that if the Doctor were to go out of town again for two months as in the first instance, he would find at the expiration of that time the conditions relatively very much the same as on his return after the first operation. He thought there was little fundamental advantage likely to be associated with the operation, as he thought that in a short time the wire and plate would cause a certain amount of atrophy of the intervening tissue and the plate be forced up out of position, making the operation of no avail. If he was so unfortunate personally as to be placed in a similar position, he would have his

eye enucleated. DR. E. L. HOLMES thought it unwise to say that a certain thing could not possibly be accomplished, but he had been through the experience of putting in plates, and seeing it done, and never saw one permanently successful. It is different with a very narrow symblepharon in which the globe and eyelid are grown together, where by dissection and transplanting the mucous membrane excellent results may be attained. He thought the plate would irritate the cicatricial tissue and cause it to be very much thickened, and after a few months, or weeks even, when everything is removed, there will be the same tendency to creep over the cornea and make adhesions with a broad union. He thought it absolutely impossible to get an artificial eye to fit. A very small eye might be used and temporarily make it appear that the patient was better off, but that small eye will often irritate and cause the cicatrix to increase.

THE PRESIDENT thought this case one of the same category that is so troublesome to the general surgeon, the improvement of deformities from cicatrices of all kinds, in which relief comes only in the way illustrated by a series of cases. that Dr. Dudley has applied in gynecology, after the

contraction goes.

THE PRESIDENT presented an

ENCAPSULATED SARCOMA OF THE THIGH.

It had been in alcohol for some time, and was reduced about one-third in size. It had grown the full extent shown in three months, and was removed from an old lady aged 69. It was found growing upon the posterior part of the upper portion of the thigh; was a firm, smooth tumor to the touch, and as far as external manipulations determined could not be distinguished positively from other parts of the surrounding tissues. He could not determine whether it was or not attached to the bone, but from external appearances it was diagnosticated to be of a malignant type. The external surface was crossed by a large number of varicose veins. After removal it was shown to be a sarcoma. The interesting point was the rapidity of its growth. He thought it a singular coincidence that about a year previous he had removed a similar tumor from the upper portion of the left arm of an old man of 72 years, which had also grown to the full size in three months. Upon exposing the tumor a perfect capsule was reached, and it was easily enucleated from its bed.

#### GYNÆCOLOGICAL SOCIETY OF BOSTON.

Annual Meeting, January 14, 1886. THE PRESIDENT, HENRY O. MARCY, M.D., IN THE CHAIR.

H. J. HARRIMAN, M.D., SECRETARY. The following

NEW MEMBERS

were elected: Drs. Helen L. Betts, Emily Pagelsen, Grace Wolcott, Lena V. Ingraham, N. O. B. Wingate, A. E. McDonald, and J. E. Kelley. The following were elected

OFFICERS FOR THE ENSUING YEAR:

President, Dr. H. O. Marcy; Vice-President, Dr. H. C. White; Secretary, Dr. H. J. Harriman; Treasurer, Dr. W. Symington Brown; Pathological Committee, Drs. E. W. Cushing, A. P. Weeks, and H. O. Marcy; Nominating Committee, Drs. H. M. Field, E. C. Keller, and C. W. Stevens.

Stated Meeting, February 11, 1886.

THE PRESIDENT, HENRY O. MARCY, M.D., IN THE CHAIR.

Dr. A. L. Norris read a paper on

CERTAIN PATHOLOGICAL CONDITIONS INCIDENT TO THE FŒTUS;

Case 1.—Mrs. S., married, age 26 years. Mother divided cicatrix has been separated as widely as pos- of one child. Last menstruation, April 5, 1885.

Had no symptom of pregnancy except cessation of than that it had died during the early months of from nausea and vomiting. Was examined August 1, 1885, and appeared to be about three months were similar to Dr. Norris's first case. pregnant. She did not think that she could be pregnant, but decided to wean her child, which was 13 carried three times. Menses regular until last Aumonths old. She was examined again on Oct. 22. gust, when they disappeared. She suspected she was not much larger than at August examination. In pelled and the placenta found to be fatty. Amount the meantime she had been examined by other phy- of amniotic fluid was small. Fœtus was buff-colorsicians, who thought a uterine or ovarian tumor to ed, somewhat flattened, and measured seven inches exist. January 4, 1886, the abdomen seemed less in in length. size than at October visit. On January 6 she was delivered of a 4½ months fœtus which was mummi- was suffering from severe uterine hæmorrhage. Vagfied and enclosed in membranes. Fœtus, membranes inal examination revealed a cyst presenting, which and placenta were extracted in one mass nine months was ruptured by the examining finger. A blighted from date of last menstruation. The usual amount foctus, three inches long, which had undergone mumof hæmorrhage followed delivery. No odor. Con-mification, was removed. Placenta had been atvalescense normal.

five months without symptoms other than cessation eight months preceding the expulsion of the fœtus. of growth. Cases 3 and 4 were cases of triplets. At first patient had suffered from morning sickness, In case 3 the mother had had eight single births pre-viously. One boy and two girls were born at a quick trouble. The breasts had increased somewhat in and normal labor. Mother nursed the three children size. Patient had grown stouter, but abdomen had until they were several weeks old. One girl and the not increased in size during later months of gestation. the boy died when six weeks of age. The other girl still lives and is in good health. In case 4 a prima- and female child born at term. Child well develpara was delivered of two healthy girls and a still-oped. On the removal of the placenta a flattened born boy. The feetus of the boy was of three months and mummified feetus was expelled. Was of a buffdevelopment, and was mummified. Both girls are color, six inches in length, enclosed in membranes. alive and well.

of both arms at the shoulder. During the last four months of gestation the mother suffered from intractable chronic diarrhea and from vomiting. Boy is however, the membranes are ruptured and the air still alive and well, and uses his toes with almost as enters, putrefaction takes place. much facility as other boys use their fingers.

Dr. Norris if he regarded pregnancy as a bar to furticles by Dr. Dolan on the influence of drugs upon doubt. lactation, in which that writer takes exception to the milk of pregnant women was not impoverished, and concluded from this fact that pregnancy was not a contra indication to further nursing in a majority of cases. In France the laws forbid a pregnant woman's acting as wet-nurse, upon the ground that the milk

DR. NORRIS, in reply to Dr. Field, said that in his opinion a pregnant woman should not nurse a child. ished, as proven by loss of color and flesh.

through some vice of nutrition had ceased to grow, tion seemed perfectly healthy when cast off.

During previous pregnancy had suffered gestation and been retained until the ninth month.

Dr. A. P. Clarke described several cases which

Case 1 .- Mrs. B., 38 years old; multipara. Mis-Had appearance of being pregnant at four months. pregnant, though no morning sickness or other usual No motion; no feetal heart sounds. Abdomen was symptoms of pregnancy appeared. A feetus was ex-

Case 2.—Mrs. W., 36; multipara. When first seen tached until time of expulsion, and fresh hæmorrhage Case 2 was similar to case 1. A feetus was carried followed its removal. Menses had been absent for

Case 3.-Mrs. W., 34; multipara. Labor normal

In reply to Dr. Warner, Dr. Clarke said that mum-Case 5 was one of spontaneous amputation in utero mification usually takes place in cases where the fœtus dies, the fluid elements of the body are reabsorbed, and the membranes are unruptured. If,

Dr. E. W. Cushing said that there was nothing DR. H. M. FIELD, in discussing Case 1, asked impossible about a feetus being carried for months r. Norris if he regarded pregnancy as a bar to fur-after its death, as claimed by Dr. Norris. There are ther nursing. He called attention to a series of ar- cases on record which seem to prove it beyond a

Dr. M. D. Church described the case of Mrs. popular opinion upon this point. He found that the M., who, at nearly full term, received a fright and fall in a horse-car on March 26, 1883. Was delivered of a still-born fœtus, twenty-two inches long and fully developed. Funis was drawn tightly about the neck of the child twice. The epidermis slipped on all parts of the body. He raised the following quesof such women is inferior both in quantity and qual-tions: 1st. How long must a feetus be dead in utero ity, and thus the health of the nursing child is in before the skin will slip? 2d. Was the tight funis danger.

before the skin will slip? 2d. Was the tight funis the cause of death? 3d. Was the fall in the horsecar the cause of the tightening of the cord?

Dr. Keller described the following case: Mrs. Abortion was likely to follow such a practice, and S., 35. Five children at term. Miscarried five times the health of the child was endangered. Children on account of lacerated cervix. The fifth time had nursed by pregnant women were invariably ill-nour-been pregnant eleven weeks when she had "a profuse flow of blood with clots." She was carefully DR. WARNER took exception to Dr. Norris's con examined by a physician, who concluded that the clusions in regard to his first case. Dr. Warner uterus was empty. The flow continued nine weeks thought it far more probable that the feetus had con-when an ovum entire with feetus 11/2 inches long tinued to live up to the time of its expulsion, but was expelled. No odor. The product of concepa woman nursing when pregnant, thought that few lial covering of the maternal vessels when the plawise to withdraw a part of the burden by directing and are easily separated from the decidual sheath, that the child be weaned.

series of placental changes which, until recently, had months after the expulsion of the fœtus. been but little understood. The late distinguished of the first importance to science. He shows con- to them. clusively that feetal alimentation in all mammals is carried on by a single, universal law of physiological modality, that the fœtal villus is simply a means of absorption of nutritive material, which is, in all cases, furnished by a glandular, secretive organ of maternal development. The expression of this anatomical type is of the widest variety, and in woman, in the fully developed placenta, reaches a complexity of form confusing in the highest degree. The chorial villi, which during the earlier months of pregnancy are developed over the entire surface of the chorion, are composed of two parts, internal and external. The first, which was called by Robin chorial tissue, and by Virchow mucous or myxoma, is in direct villi, at the placental site, increase normally in numgrowth and disappear by atrophy and fatty degenerof new formation, and afterward proliferates to a revilli is perceived same time after they have been enveloped by the cells of the serotina, but disappear at an early period. Not seldom, in case of so-called rounding glandular organs.

evidence of the truth of the demonstrations of Er- ing and jactitation. colani. I have frequently observed, microscopically,

DR. HELEN BETTS, in referring to the question of the close contact of the choriol villi with the epithewomen were able to nurse a baby and carry a feetus centa has been undisturbed in connection with the at the same time without injury either to themselves uterus for a considerable period after the death of or to those in their charge. In most cases it seemed the fœtus. The choriol villi have become shrunken, the cells of which have undergone active prolifera-THE PRESIDENT, in commenting upon the speci-tion. In one instance this was observed to have men presented by Dr. Norris, said it was one not taken place and continued in a stage of active deonly of exceptional interest, but represented a whole velopment, in a portion of a placenta removed three

Dr. Marcy was glad to have the attention of the Professor G. B. Ercolani, of Bologna, rendered a Society called to this class of specimens. They are service to the profession of incalculable value in his of interest from the practical side of observation and studies of placental development, and his demon- often involve danger to two lives. The pathological strations, after long and patient research in the large committee of the Society will gladly investigate and field of comparative as well as human anatomy, are report upon any specimens which may be forwarded

#### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, February 17, 1886.

VICE-PRESIDENT, JOHN B. HAMILTON, M.D., IN THE CHAIR.

T. E. McArdle, M.D., Secretary.

Dr. C. V. Boarman read a paper on

JAUNDICE FOLLOWING CONCUSSION OF THE BRAIN.

On December 30, 1885, I was called to see J. B., contact with the chorion; the latter, which consists age 30; married; a laborer at the Monument; who, of an epithelial envelope, entirely surrounds it. The whilst assisting at some mechanical work, lost his balance and fell a distance of thirty feet, striking upon ber and volume. Elsewhere, they are arrested in their his head, tearing the scalp from and exposing for several inches square the vertex of his skull, he also ation. The decidua is, at first, a single bed of cells bruised and lacerated his forehead in several places. His body and limbs were also bruised. I found him markable degree at the placental site—the decidua at his home (to which he was brought in a carriage), serotina. The epithelial covering of the placental in a sitting posture, apparently dazed; would answer questions in monosyllables after their repetition in a loud voice, was spitting blood and his nose bleeding.

I washed the semi-detached scalp in carbolized mole pregnancy, the choroid villi, which should atro- water and reapplied it in its proper place, holding it phy, increase in volume. Under these conditions there by means of a stitch and adhesive plaster, orthe external epithelium does not atrophy, but prolif- dered him to be put to bed at once and lotions aperates, and has been mistaken for the internal sur- plied to his face and other bruised parts. About six face of the epithelium furnished to the placental villi hours after a messenger came to my office to ask for from the modified cells of the serotina. At the later something to relieve Mr. B.'s sick stomach, and also stages of pregnancy, the examination of any remain- notified me that he had vomited about a pint of coaging choroid villi shows them still covered with an ulated blood, and that there was still considerable epithelial layer, while the placental villi have lost retching and nausea. I at first thought that the this envelope and are formed only of the fundamen. above might be caused by compression, but as I gave tal myxomatous tissue which encloses the feetal ves- the injury a very thorough examination at the time I sels, and thus the external parenchyma of the villi is saw it and discovered notling of the kind, I conin contact with the internal epithelium of the sur-cluded that it was due partly to the concussion, and also the blood which had run down the cesophagus Pathological conditions, such as are represented from the posterior narcs, as there was considerable episin this specimen, where the feetus has been for some taxis. I ordered ice, lime water and milk, also some time dead and the placenta has remained undisturbed ingluvin, and after a few hours bromide potass, in in its attachments to the uterus, give confirmatory solution, as there was considerable excitement, groan-

December 31. Mr. B. was quietly resting upon

during his descent.

stained, urine loaded with bile pigment, and all other in turn was followed by jaundice. symptoms indicative of icterus. I never saw a pernit. muriatic acid dilut., at the same time, of course, while it merely excretes the bile-pigment." his bowels acted, and left the bed.

he was up and anxious to resume his work.

advanced by Murchison, that concussion of the brain the bite of serpents. produces jaundice by interfering with or derauging the normal metamorphosis of bile by nervous influences. Virchow mentions a form as hæmatogenic, that is, formed in the blood or taking its origin there. comrade who had angered him.

years, convalescent from puerperal peritonitis, who shock we do not get much satisfaction.

his back in bed upon my arrival, perfectly conscious, became jaundiced within three hours after an unsucno headache or sick stomach, but still spitting up cessful attempt to catheterize the bladder; the skin blood. He stated that after vomiting copiously the remained yellow for four days and the urine contained night before, he felt much better, became perfectly bile-pigment one day longer. Its sudden onset and conscious and passed a good night. The vomiting rapid disappearance are in favor of its being of neuwas no doubt as much dependent upon the blood rotic origin. Another case of interest having a rewhich had run down his osophagus as upon the con- mote origin or cause is mentioned by Dr. Boucher in cussion of the brain. 1 examined his wounds and the London Lancet, July, 1884: A child aged 2 years found them doing well; very little suppuration, the sat down in a pail of hot water in which there was scalp-wound inclined to unite. The entire head, face, and even the neck was very much swollen, looked like it was puffed up with air, but no redness or tenderness; in fact, no positive symptom of erysipelas.

On the tenth day after, there was abdominal tenderness; in fact, no positive symptom of erysipelas. His sclerotics were congested and effused, the surness with pain, high temperature and diarrhoea, the rounding parts black from bruises. He complained urine contained bile-pigment, sclerotics and skin very much of soreness about his knees and shoulders, stained; in a word, a well-marked case of jaundice. which were no doubt struck by projecting beams It lasted three or four days, and then subsided. This case was no doubt owing to inflammation extending January 1. Upon visiting Mr. B., to my astonish- to the mucous membrane of the common duct, causment I found him intensely jaundiced, his sclerotics ing an obstruction to the outward flow of bile, which

It is frequently very difficult to assign a cause for son more changed in appearance; being in health a jaundice, as its appearance at times is so eccentric; very tall, thin man, his features sharp and cheek-bones for instance, the jaundice of pyæmia, and those forms prominent, his present condition was such that he was of the disease resulting from the narcotism of chlohardly recognizable, as his face was terribly swollen roform, and other forms of intoxication. It also and as vellow as saffron, the bruises and lacerations occasionally complicates pneumonitis. I think the of course adding to the above abnormal appearance. case just reported by me was due to neurotic influ-I removed the stitch from the scalp-wound, which had ences, as its appearance and disappearance were so united by first intention. His other injuries, not-sudden. Besides, I examined his urine by the usual withstanding his jaundiced condition, were doing methods, and failed to find the biliary acid, which, well; he was still spitting up some blood, but not according to Dr. G. Harley, is proof that no obstrucenough to cause any alarm. I ordered a mercurial tion existed, as he adopted the theory which had been purgative, after the action of which I placed him upon advanced, "that the liver manufactures the bile acids,

regulating his diet, forbidding the fats, oils, etc. The DR. A. Y. P. GARNETT said that jaundice is often purgative acted well, bringing away a large amount due to traumatism. Although he had no personal of black grumous matter, no doubt partially digested experience with the disease resulting from such a blood and faces. He felt considerably relieved after cause, yet the journals frequently contain reports of similar cases. Nervous influences operate in a great January 3. His condition was very much im- variety of ways. Some women suffer from jaundice proved, the jaundice rapidly disappearing, and the during the period of the menses. Some reflex irriswollen and bruised parts resuming their normal tation traceable to the uterus or ovaries produces an condition. I did not see Mr. B. again until Janu-icteroid condition which disappears with the cessation ary 5, which was my last visit, as the jaundice had of the menstrual flow. We know that the presence disappeared, and his various injuries were doing well, of the infant seeking nourishment will produce an increase of maternal milk. The appearance of food I look upon the above case as rare, as in the major-causes a secretion of saliva. Not only quantitative ity of cases the physician is able to trace the disease but qualitative effects follow mental emotions. Pasto obstructions either existing in the intestinal canal sion has a deleterious influence on normal secretions. or common duct, whereas in the above the solution Fear had turned turned hair gray almost instantaneof the difficulty is hard, unless we accept the theory ously. Dr. Garnett also spoke of jaundice following

Ponfick assigns as a cause violent mental conditions, and septicæmia; but he did not consider this condias for instance anger, etc. Murchison speaks of the tion pathological jaundice. It is different from a jauncase of a soldier who became jaundiced because he dice caused by an impediment to the excretory ducts was restrained from wreaking his vengeance on a or by a catarrhal condition. In such cases there would be an absorption of bile after its manufacture by the M. Rendu records the case of a woman aged 25 liver. When we get to explaining things by nervous

patient had headache and nausea, both symptomatic concussion. of jaundice. There was at no time even a suspicion that condition is common in jaundice. Murchison and the acute symptoms described in the paper. says that nervous influences can and do produce jaundice.

the hepatic cells in the production of bile is in direct by compression in the fourth ventricle due to exproportion to the plus or minus degree of blood travasation. pressure in the liver. Any agent or cause disturbing the normal physiological equilibrium of blood pressure in that organ directly affects the secretion of bile. It has been shown that a section of the splanchnic nerves causes immediate dilatation of the hepatic veins, followed by a diminution of arterial blood pressure and increased flow of blood into the portal veins. It is easy then to conceive how readily causes disturbing the normal functions of the nerves supplying the liver, and especially the great sympathetic, whose filaments supply the vaso-motors of the hepatic arteries, may affect the secretion and diffusion of bile.

and taurin and pigment are voided in the urine.

the color of dog's dung.

DR. H. D. FRY asked on what symptoms the diagnosis of concussion of the brain were based?

Dr. Boarman repeated the symptoms mentioned in his paper.

Dr. Fry thought it was important to have examined the abdomen for possible injury.

possibility in his paper.

Dr. Boarman contended that jaundice may be a and by the pneumogastric nucleus. He agrees with symptom of nervous derangement. In this case he Dr. Boarman that it is a rare but long-recognized found bile pigments and biliary salts in the urine. condition. Duret's examination showed extravasa-It looks, of course, as if an obstruction existed. The tion in the fourth ventricle in a great many cases of

Dr. King could not see the connection between of pyæmia or septicæmia. The pulse was slow; but a jaundice resulting from old liver disease, as abscess,

Dr. Hamilton spoke in general terms, and in reply to Dr. Boarman said he thought that nervous Dr. Garnett said that the metabolic activity of jaundice, like diabetes mellitus, might be produced

# DOMESTIC CORRESPONDENCE

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

The Bellevue Commencement-The Funeral of Dr. Flint-The Death of Dr. S. O. Vanderpoel-The University Commencement.

The commencement of the Bellevue School, which DR. BOARMAN said that Budd concurred in Boer- came off on the evening of March 15, was the sadhaave's and Morgagni's idea, with the exception that dest that this, or probably any other medical college, no bile acid was found in the blood of the portal ever had. The week before had been buried the acvein. Prof. Freidrich states that bile acid taken from complished and popular young Demonstrator of the liver by blood of hepatic vein, and also absorbed Anatomy, Gaspar Griswold, and at the time of its from bowel, etc., undergoes in the blood a change, occurrence the mortal remains of the immortal teacher Bile acids converted by oxidation, a normal meta- and writer, Austin Flint, lay in their coffin awaiting morphosis, into taurin, are found in healthy lungs, the funeral services of the morrow. Under the circumstances the exercises were naturally of a memo-Dr. A. F. A. King inquired whether the body rial character, instead of the festal nature usual on was examined all over? If the discoloration was such occasions. They were entirely private, being general? If there was bile in the stools? He thought held in the lecture room of the Carnegie Laboratory, the discoloration resulted probably from bruising, connected with the college, instead of some such He said that it was important to determine whether place of amusement as the Metropolitan Opera a yellow coloration of the surfaces is really due to House or the Academy of Music, and the building the principle of the bile, and mentioned the true was elaborately and tastefully draped in the emblems jaundice of the new-born, and its spurious coun- of mourning. It was indeed a most affecting event. In his remarks to the graduating class, which num-Dr. Boarman had examined the body generally bered 140, the President, Dr. Isaac E. Taylor, spoke but not the abdomen. The urine, he repeated, con- in feeling terms of the great bereavement of the coltained the biliary salts, the faces were scanty, and lege and the profession, and the eminent physiologist, Dr. John C. Dalton, now President of the College of Physicians and Surgeons, paid a most touching and eloquent tribute to the dead Professor.

The funeral services, which were held Tuesday, March 16, at Christ Church, of which Dr. Flint was a member, were of the greatest possible simplicity, and there were no pall bearers. The church was DR. BOARMAN said that he had mentioned such a completely filled with the Faculties and students of Bellevue and the other medical schools, representa-DR. I. B. HAMILTON said it seemed the literature tives of the New York County Medical Association, had been hastily treated. The autopsies made by the County Society and the Academy of Medicine, Valsalva had not shown any intimate relation be, and citizens generally; and among those present were tween concussion of the brain and hepatic abscess. many distinguished men of other callings, as well as Chelins says liver abscess and jaundice are common a number of well-known physicians from other cities. as late symptoms. Ballugall, Guthrie and Gross At the head of the coffin, beside which stood, during also mention it. Dr. Hamilton thinks the only ex- the whole service, the faithful negro servant of Dr. planation of its production has been that it is due Flint, was a large and beautiful broken column, rising to an irritation of the floor of the fourth ventricle from a floral base, which was the offering of the

County Medical Association; and afterwards the known a distinguished surgeon to leave the bedside flowers composing it were distributed amongst the of a sick President and make an exhausting journey patients in the medical wards of Bellevue Hospital, in order to relieve the sufferings of an unfortunate which the deceased had attended so long and faith- person whose only possible means of recompense fully and with signal benefit to the profession and was gratitude."

suffering humanity.

It was before the County Association, which was a society especially cherished by Dr. Flint, that he read his last paper in public, that on "The Elements of Prognosis in Bright's Disease," which was pub- To the Editor of the Journal: lished in The Journal of January o last. On Sunday, the day following his death, a special meeting use the words "academic studies" in a general sense, of the Executive Committee of the Association was as we may have occasion to use the words medical adopted, and it was determined that the next meeting schools, high schools, military and naval schools, norand former colleagues in the different cities where he student prior to the study of medicine, and how much resided and won for himself not only distinction, but time should be spent upon each of them, are questhe sincere esteem and friendship of all his profestions which can only be answered by educated men render their tributes to his memory. At a meeting fully pursued the study of mathematics, or languages, of the Commissioners of Charities and Corrections which was held on the following day, resolutions of in a position to judge of their relative value as so sympathy were also adopted, in which special attention was called to the fact that Dr. Flint had been Hence, they have no right to express an opinion on connected with the Department as visiting physician indeed an irreparable one.

in the city and State, Dr. S. Oakley Vanderpoel. It must be answered by the same kind of authority. busy among the eminent men of the profession here; within a few short weeks no less than four having is scarcely worthy of serious consideration. been called away from their labors, Drs. Post, Griswold, Vanderpoel and Flint. While Drs. Flint and Griswold were connected with the Bellevue school, Drs. Post and Vanderpoel belonged to the University; the former being Emeritus Professor of Surgery and President of the Medical Faculty, and the latter

Professor of Public Hygiene.

The forty-fifth annual Commencement of the University Medical School was held at the Academy of was conferred on 173 graduates. The class were fortu-stood. The minimum requirements for matriculation nate in having to address them the Hon. Wayne Mac- in the theological, law, and medical schools of all as one of the most attractive speakers in the coun- South American States, and Mexico, consist in knowltry. In the course of his remarks he said: "If I edge of the higher mathematics, at least three langwere called upon to indicate as marvellous a change uages, belles lettres, mental and moral philosophy and as any that has come over the knowledge of men in the natural sciences. Higher attainments are enmy time, I would say that it was the difference be-couraged, and other studies are often pursued which tween the well educated and well equipped physician are not required by law. The medical profession in when I was born, and the man of the same relative the United States, whatever may be said to the conrank and acquirements in his profession to-day. In trary, cannot afford to occupy a lower plane than almost every department of medical and surgical that of the profession in other great nations. In the knowledge advancement has been made which has direction of mechanical inventions we may have sursubstantially revolutionized the art of healing and passed others, being stimulated by our potent laws, alleviating the diseases of men, and of prolonging but this is no evidence that we can invent a better human life." Later on he remarked: "And charity method of educating professional men. is the crowning glory of your profession. I have The limited space at my disposal requires me to

#### ACADEMIC STUDIES IN RELATION TO MEDICINE.

Dear Sir: - In this communication I propose to held at the house of the President, Dr. Leale, when studies in a similar sense. By the former we underthe memorial which has already been published was stand those studies which are pursued in our common of the Society, which will occur April 10, should be mal schools, academies, classical, scientific and litexclusively devoted to commemoration exercises in erary schools, usually known as colleges. How his honor. It is expected that several of his friends many of these studies should be taken up by the sional brethren, will be present on that occasion to of large experience. Those who have never faithor the natural sciences, for a series of years, are not many means of mental discipline or education. the subject, any more than a non-medical man has a to the hospitals for twenty-five years. His loss is right to express an opinion in a case of pneumonia or syphilis. Other questions which imply a partial On the day preceding Dr. Flint's death occurred or a total exclusion of these or other branches of that of another of the most distinguished physicians study from the curriculum of an academic course will thus be seen that death has of late been very Any new theory of preliminary education, advocated by a single profession or by a few men in a profession older methods may be somewhat modified to suit the age in which we live, but we are not moving so rapidly than we can afford to abandon the experience of our fathers in any department of activity, much less in the slow processes of educating the human mind. If any one should ask where an expression of sen-

timent on the points mentioned or referred to may be found, we would say, that the statute books of all civilized nations (our own country being the excep-Music on the 6th of March, when the degree of M.D. tion) contain statements which cannot be misunder-Veagh, of Pennsylvania, who is everywhere known European countries, the Canadian provinces, the

or three additional paragraphs. ard, academic and medical, would support special professions. schools with a fixed and limited curriculum is folly, student who desires a good education, prepare for the study of medicine? and I proceed to answer with

2. What shall a student, who desires a good edu- money to spare. cation study until he is capable of deciding what he should do in life? This is not only an important question for every student to solve, but one which the faculties and trustees of our higher educational institutions are required to consider in all its bearings. For the parent to decide what shall be the life-work of his son before he has reached his majority would be as unwise as to give him full possession of his inheritence during his minority; and any system of education which would require the son to make so imheritence he was called to Tarrytown to an portant a decision while yet in his minority, is false. important consultation, and on returning to the city We have all seen the minister in the pulpit, the at-found a pressure of business among his own patients. torney at the bar, and the medical doctor make a He was very much exhausted when the hour for a failure of life; and we have said, they have mistaken lecture at Bellevuc arrived, but insisted on delivering education—that is, a knowledge of angles and circles, For several days after this strain his friends noticed Greek and Latin verbs, syllogisms and the laws of that he seemed depressed and nervous, but he soon

be brief, and therefore I will confine myself to two natural fitness for his calling. A life-work must have some charm about it, to compensate for the annoy-I. Our profession has thus far been under the ne- ances incident to professional work, or disappointcessity of making use of such academic institutions ment and failure will result. It is plain that the stuas the people of our numerous States have provided; and as far as it is possible for us to foresee, we will decision until he has reached his twentieth or twentyalways be under the same necessity. We may, as a first year, and even then he may make a fearful profession, control, in some measure at least, our blunder, nor is the parent able to assist him. For medical schools, because there is no other class of the pulpit and the bar he should be an easy writer citizens specially interested in them. Our military and and a fluent speaker; he should have a clear voice and naval schools, schools of design, normal schools and a pleasant address. For a successful study and pracagricultural schools may also be regulated to suit tice of medicine, he should have a decided inclination the limited number of students who apply for ad- in the direction of the natural sciences, especially mission; but no simple profession is likely to gain so biology combined with patience, self-possession and mission; but no simple profession is likely to gain so great an ascendency in our country as to control the sympathy for mankind. A protracted course of acacurricula of our numerous classical, scientific and diterary institutions, about 300 in all; or to dictate what branches should be introduced and what excluded. The fact is, that in nearly all of them, the student has the choice of two or three courses of sions which he will not find in any other. In this student has the choice of two or three courses of sions which he will not find in any other. In this study, and there seems to be very little more needed course he is left entirely free, to study his mental to make them complete. The religious denomina capabilities and pecularities, and the indications of tions which have very generally supervision over them, Providence. With these advantages, if he has chosen have very generously provided elective courses of medicine, he will make more progress in one year study for those who do not desire to study theology; than others will in two or three years; and he will and many whose sons propose to study theology; than others will in two or three years; and he will and many whose sons propose to study law insist, that they shall continue all through the junior and senior years, in the course in arts which they believe specially not so large, enter upon the study of medicine with the degree of bachelor of arts. To suppose that the medical profession, in the United States which has ignored every standiar degree of a great great and advised in the United States which has ignored every standiar degree and medical would support special interestions.

In conclusion, allow me to say that it ill becomes and we do not hesitate to say it. Those who have the medical profession in our country to complain of energy to spare may waste it on such an issue, but our higher literary institutions, much less does it bewe could not encourage them to do so. People gen- come us to speak of them in a disrespectful manner. In erally place their sons in the care of those whose re- most of these schools instruction is gratis, or nearly so; ligious sentiments are in harmony with their own, if besides it is entirely optional with the student whether they cannot find a school in the neighborhood. I he pursues one course of instruction or another, have now answered the question, Where should a When our medical schools command as much respect as our academic institutions, they also will be liberally endowed. A high standard and an honorable policy equal brevity, another question not less important. will alone secure the confidence of those who have R. LOWRY SIBBET, M.D.

Carlisle, Pa., March 7.

# NECROLOGY.

AUSTIN FLINT, SR., M.D., LL.D.

Died at his residence in New York, on Saturday, It is not sufficient to have merely an it even while complaining of the burden he felt it. chemistry and biology. The student must have a recovered his wanted energy, which was marvellous for a man of his years. The last lecture for the term Practice of Medicine and Clinical Medicine in Bellea few days ago was an hour long, and he followed it vue Hospital Medical College, and that of Pathology with a quizzing exercise which would have done credit and Practical Medicine in the Long Island College to a professor of 40. He attended the examinations Hospital to which he had been previously elected. which were concluded on Friday, went to the Faculty He was also appointed one of the physicians to Bellemeeting on Friday night, which lasted till a late hour, vue Hospital. He relinquished the professorship in and was driven home apparently in the best of health the Long Island College Hospital in 1868. and spirits. Very soon after reaching his home he was taken ill. Dr. E. G. Janeway was called in immediately, and seeing the nature of the attack sent for Dr. Austin Flint, Jr. Drs. Isaac E. Taylor and Wm. T. Lusk were called in consultation on Saturday, but the patient sank slowly, and died at 2 o'clock.

Dr. Flint was born in Petersham, Mass., on October 20, 1812, and was therefore in the seventy-fourth year of his age. He came of a family that had made a name in medicine in Massachusetts since the early settlement of New England. Thomas Flint, of Matlock, Derbyshire, England, the ancestor of Dr. Austin Flint, settled in Concord in 1638. Edward Flint, the great-grandfather of Dr. Flint, was a physician of reputation in the Massachusetts Colony in the early part of the last century; and his grandfather, Dr. Austin Flint, practised medicine in Leicester, Mass., until past the age of 90, dying in 1850. He laid aside his profession temporarily to enter the Revolutionary Army, but his services were soon needed as a surgeon. Dr. Flint's father, Joseph Henshaw Flint, was also a surgeon of reputation in Northampton and afterwards at Springfield. Dr. Flint pursued his academic studies at Amherst and Cambridge for three years, when he entered the medical department of Harvard College, and received the degree of M.D., in 1833. The first three years of his professional life were passed in Northampton and Boston, when he removed to Buffalo, N. Y., in 1836. He had already brought himself into prominence in the profession by his success as a practitioner and writer. In 1844 he was appointed to the chair of Institutes and Practice of Medicine in the Rush Medical College of Chicago, though still retaining his residence in Buffalo. This position he resigned at the end of medical profession of the different States unite in a year. In 1846, he founded the Buffalo Medical bringing their influence to bear on the legislatures to Journal, and for ten years edited it with marked ability pass laws sanctioning and providing for dissection. At this meeting also he was placed on the Committee ical attracted attention on account of their unusual on Medical Literature for the next year, Dr. Oliver worth. Among the physicians practising in Buffalo Wendell Holmes being Chairman of the Committee at this time were Dr. James P. White and Frank H. By this time he was already known favorably as a Hamilton. With these, in 1847, Dr. Flint organized writer. In 1849 he brought out an able article on the Buttalo Medical College, which has also num-the pathology of typhoid fever, giving an exact acbered among its professors, Drs. John C. Dalton count of the intestinal lesions. In an article on diaand Sanford P. Ilunt. In this institution Dr. Flint betes, published in his Buffalo Medical Journal, in was Professor of the Principles and Practice of Medi- July, 1848, he had confirmed the opinion expressed cine and of Clinical Medicine until 1852, in which by Todd, of England, in the Provincial Medical year he was called to the Chair of Theory and Prac- *Journal*, three months before, as to the pathology of tice of Medicine in the University of Louisville. Here this affection: "The presence of sugar in the blood he remained until 1856, when he returned to Buffalo and various secretions other than the urine render it to take the Chair of Pathology and Clinical Medicine inappropriate longer to rank diabetes among renal in the College which he had been instrumental in diseases." At the meeting of the American Medical founding. In 1858 he went to New Orleans to teach Clinical Medicine, where he was also visiting physibeen chosen at the Baltimore meeting of the National cian to the Charity Hospital. He held these positions Convention, he was made Chairman of the Section during the winters of 1858-1861, when he removed of Practical Medicine; and the report on this subject to New York to take the Chair of the Principles and shows how well he performed his work. By this time

Dr. Flipt went to New York distinguished as a practitioner, a teacher and an author. Besides his other published writings he had presented two essays to the American Medical Association on "The Variations of Pitch in Percussion and Respiratory Sounds" (1852), and "The Clinical Study of the Heart Sounds in Health and Disease," (1859), for which he received the first prizes of the Association.

When the National Medical Convention met in New York City on May 5, 1846, Dr. Flint registered as a delegate from the Buffalo Medical Association; the other delegate being Dr. Bryant Burwell. This National Medical Convention, it will be remembered, was the initiatory step towards the formation of the American Medical Association. Dr. Flint was one of the seventy-four who voted against a resolution, offered on behalf of the New York State Medical Society, setting forth that there was no mode of accomplishing the object of the Convention, and suggesting that it adjourn sine die. At this meeting he was appointed on a committee to report on a resolution, offered by the late Dr. Isaac Hays, for a uniform and elevated standard of requirements for the degree of M.D. in all the medical schools of the United States. The report of this committee, made in Philadelphia in 1847, at the second meeting of the Convention, is today a most interesting, applicable and valuable document.

Soon after this meeting of the Convention Dr. Flint, as already stated, helped to found the Buffalo Medical College; and seeing the difficulties under which medical schools labored in regard to subjects for practical anatomy, he introduced a resolution at the meeting in Philadelphia recommending that the by him, notably two on serous effusion into the of its existence. Of those who cooperated in the arachnoid cavity, which appeared in the Buffalo formation of the Association, not many now remain, Medical Journal, in May, 1849, and April, 1850, and and after a few more annual meetings all will have one on pleuro-pneumonitis complicated with peri- passed away." The objects of the Association, and carditis, in the same periodical in February, 1850, in the motives which led to its formation, are clearly and which he again pointed out the occasional connec-fully set forth. It will be remembered that Dr. Flint tion of acute cerebral symptoms with lesions confined was made a member of the Committee on Medical to the heart or pericardium, and the errors in diag- Education at the first meeting of the National Connosis which may be made during life. In November, vention; and in his address he ably discusses the 1849, he wrote a report on the epidemic of cholera practical question: "What can the Association do in Buffalo in 1849. In the August, 1850, and suc- to promote more and more the elevation of the stand-ceeding numbers of his journal he gave a most elab- ard of medical education? He shows that this canorate analysis of fifty-two cases of typhoid fever, not not be done by decrying the status of the profession. only one of the most complete and valuable papers "As a body," he says, "the members of our profession issued in the country during the year, but it remains in this country are neither ignorant nor in any respect to this day one of the most faithful expositions of the unworthy. The profession is honorable and honored. subject ever published in America. Of this paper the Standing Committee of the Association on Med-bers higher." ical Literature reported at the meeting in Charleston, in 1851: "We cannot, in justice to the labor and talent displayed speak of it merely as affording a rigid comprehensive analysis of the subject. As an exposition of the clinical facts of the disease, as witnessed in this country, as an American work on fever, rich in material and admirable in execution, it is one of the best contributions ever published in the United States." His prize essay for 1852, on variations of pitch in percussion and respiratory sounds, has already been mentioned. On the title page of this essay was the following quotation from Andry's: work on Diseases of the Heart: "Happy am I in my own estimation if I have thrown any light, in this Memoir, upon any clinical questions, and especially if I have stimulated the zeal of our young practitioners for the diagnostic studies which constitute, in my mind, one of the most beautiful parts of our art." In the same year he published his reports on Continued Fever; and in 1853 his clinical reports on Dysentery and on essay, were translated into French and published in give the list in this place. Paris in 1854. Dr. Flint's success as an author was not the result

of chance. An ever accumulating experience, added to patient work, with an analytical mind and a pol-pital Medical College held March 15, 1886, on motion ished style, combined to make him one of the most agreeable of writers. His writings may be held up as models of scientific style. The conclusions drawn from facts were just and complete; the whole subject was stated fully, leaving nothing to be inferred. He seemed to feel it his duty to his profession to contribute his quota to medical literature, as that they can ever cherish the memory of his spotless it is the duty of every physician who draws freely from the common stock. At the meeting of the Association in Cleveland, Ohio, in 1883, Dr. Flint was nent physicians and surgeons, entrusted by nature elected President, though he neither sought nor de- with medical skill and sagacity, so nobly fulfilled his sired the office, and his masterly address in Washington will always remain an object of careful study by those who have the best interests of the Association at heart. It was delivered just thirty-eight years after the first meeting of the National Medical Convention in New York, and opened with the words: "The American Medical Association has reached an age when the thoughts of one whose retrospections ex- he himself was saved from suffering:

several able papers had been given to the profession tend to its birth, naturally revert to the natal period In no other country is the social status of its mem-

At the meeting of the International Medical Congress in London, in 1881, Dr Flint read a paper on "The Analytical Study of Auscultation and Percussion with Reference to the Distinctive Characteristics of the Pulmonary Signs;" a paper so suggestive and valuable that the brilliant and much lamented Mahomed suggested that a committee be appointed to report on a "Uniform Nomenclature of Auscultatory Sounds in the Diagnosis of Diseases of the Chest." Dr. Flint was made Chairman of the Committee, and the report was made at the meeting of the International Congress in Copenhagen, in 1884. But though he probably did more good work in the department of diseases of the chest than any man of the century -certainly as much-he was in no sense a specialist. He was not not only a born doctor, but an all-round one. His work in renal diseases was of the highest character, as will be seen from one article only, "The Elements of Prognosis in Bright's Disease," recently published in The Journal. His published works Chronic Pleurisy. These papers, including the prize and papers are so familiar that it is unnecessary to

At a meeting of the Faculty of the Bellevue Hosit was resolved:

That this Faculty keenly sympathizes with the wife, son and family of our lamented confrere, Professor Austin Flint, in their irreparable loss of a tenderly devoted husband, father, and counsellor:

Yet that in their grief they will find consolation in

life, his greatness and his goodness:

That the son, grandson, and great-grandson of emimission:

That his powers of thought and action were preserved in their fulness of vigor to the close of his intellectual and benevolent career:

That his prayer was granted in being spared from

lingering illness:

That as he had mitigated the sufferings of others

duties he retired to his painless couch of death-

"God's finger touched him and he slept."

Resolved, That this Faculty has been deprived in this dispensation of Providence of one of the most illustrious founders of this College, whose professors felt honored by having their names enrolled with his.

colleges have been established in our country;

One whose pupils fill chairs in our Faculty, while others hold distinguished positions in similar institutions of medical instruction;

One whose self-sacrificing and gratuitous services have been cheerfully rendered to the sufferers in Bellevue Hospital and other hospitals in our city and

country for the last half century.

Resolved, that our city and the world has lost in his death one whose noble presence and tender sympathies in the sick-room cheered the heart and secured the confidence of the afflicted;

Whose remarkable record is justly the pride of any

profession in any land;

Whose gifts and labors were recognized at home and abroad;

Who was honored with positions of distinction in

America and Europe rarely won;

From whose eloquent lips thousands of students in many colleges have been taught the science of medicine, and by whose graphic pen tens of thousands have gained medical knowledge, and whose numerous and valued works translated into many tongues, will continue as fountains of instruction to future generations.

Resolved, That while our heads bow in grief at his sudden death, our hearts rise in gratitude to God for his prolonged life of widely extended usefulness.

Resolved, That a copy of these resolutions be engrossed and transmitted to his family, and that they be given for publication to the medical and secular

journals of this city.

We may fitly close this sketch by quoting the remarks of Dr. Flint's long-time friend, Dr. John C. Dalton, at the Commencement exercises of the Bellevue Hospital Medical College: "I am sure there is but one thought in the minds of all who are here in this room this evening. A familiar and venerated presence no longer meets your eyes from its accustomed place. A voice to which you have listened, always with delight and profit, for so many years, is suddenly quiet on this returning anniversary. And vet I doubt whether our departed friend and counsellor ever wielded over his colleagues or class such an overwhelming influence as he does at this moment.

"He speaks to you to-night not with the imperfect utterance of an occasional discourse or a momentary topic, but with the complete and unmistakable lan guage of a lifetime. He stands before you now in his entire character, ennobled by the record of his qualities and deeds, as the acknowledged representative of all that is best in the study, the teaching, and the practice of medical science and art. It was the universal verdict, from which I have never heard a dissenting voice, that among all the eminent men of

That after a day and evening of arduous medical the profession in this wide country, his was the one name which would be inevitably selected as the first. His single-minded devotion, untiring industry, and indomitable strength of purpose raised him long ago to the position which he held to the last day of his life. And now, after conducting your studies through the session just closed, he has graduated before you, he has taken his final and highest degree, conferred One through whose instrumentality other medical by the Power that is Supreme over us all; and the parchment of his biography now bears the stamp of Emeritus.

> "For you, gentlemen of the medical class, I am sure that Dr. Flint's teachings are far from being ended. I can wish you nothing better than that you carry them with you throughout the future, and that you never cease to remember his instructions and to emulate his life."

#### MISCELLANEOUS.

MEDICAL SOCIETY OF THE STATE OF TENNESSEE.-The fifty-third annual meeting of the Medical Society of the State of Tennessee will be held in Memphis, commencing Tuesday, April 6, 1886.

Dr. D. D. Saunders, of Memphis, is Chairman of

the Committee of Arrangements.

Members who cannot attend the meeting can retain their membership and receive a copy of the Transactions by forwarding \$1 to the Treasurer.

Members or delegates who desire to reach Memphis over the Louisville and Nashville system, should purchase regular tickets to Memphis and procure from the ticket agent, when these tickets are purchased, a certificate to this effect, which should be filled up by the Secretary of the meeting to show that the person named was in attendance and entitled to special rate, and upon presentation of the same to the agent at Memphis, he will sell return tickets at one-third fare. The E. T. Va. & Ga. and the M. & C. will sell tickets to Memphis, at three cents per mile, issuing to each purchaser a certificate, on which, if properly signed by the Secretary of the Society, and presented to the ticket agent at Memphis, he will sell a return ticket at one cent per mile. Tickets to be sold 3d, 4th, 5th and 6th of April, and return tickets to be sold 7th, 8th, 9th and 10th.

C. C. FITE, Secretary.

THE AMERICAN SURGICAL ASSOCIATION will meet in Washington, D. C., on April 28, 29, 30, and May 1.

THE FRENCH SURGICAL CONGRESS will be held in Paris on October 18 to 24 inclusive.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM MARCH 13, 1886, TO MARCH 13, 1886

Capt. Jno. Van R. Hoff, Asst. Surgeon, ordered from Dept. Cal. to Dept. Mo. (S. O. 60, A. G. O., March 13, 1886.)

Robertson, R. L., 1st Lieut. and Asst. Surgeon, granted leave of absence for one month. Fort Ringgold, Tex. (S. O. 29, Dept. Tex., March S, 1886.)

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No. 14.

# ORIGINAL ARTICLES.

#### ATROPINE AND ESERINE IN OPHTHALMIC THERAPEUTICS.

BY J. W. THOMPSON, M.D.,

a mydriatic.

in the application of this agent to diseases of the eye, it is absolutely indispensable that it be employed scientifically. The same may be said of eserine. This is absolutely indispensable that it be employed to-day as the most successful means of combating this fearful disease. Von Gräfe was, however, one of the greatest pioneers in the field of ophthalmolothe fact that a myotic in ophthalmic practice is less gy. He had not the advantages of the present. He frequently demanded than a mydriatic. It is by no did not work with a light and strength borrowed illustrate my meaning better and to establish some ure of his capabilities. definite data founded upon scientific investigation for the rational application of these agents which are of the sequelæ of glaucoma, and the increased intraso potent for good or evil, it becomes essential to ocular tension is in the beginning only the physical look into certain diseased conditions of the eye sequence of the retention of a part or all of the nor-which decidedly forbid or demand the application of mal intra-ocular secretion. In the posterior chamone or the other of these drugs. It is the absence ber the normal secretion is furnished by the ciliary of rational investigation that has led the way to much bodies for the nourishment of the lens and its capempiricism in the use especially of mydriatics. The sule. After it has accomplished its purpose in the conditions that contra indicate their use are abund-antly found in glaucoma. I do not call to mind any opening into the anterior chamber and mingles with disease in the whole category of human ills concern- the fluid in this chamber which is secreted by the ing which there have been advanced so mary vague membrane of Decemet. When its function here has

of the disease it represents. But I have neither time nor inclination to quarrel with its etymological signification. Its long and intimate association with this fearful disease has clothed it with a meaning that perhaps entitles it to some respect and consideration.

Before dropping a solution of atropine into the eye, examine carefully the intra-ocular tension. If this be above the normal, and the iris be free of in-In a physiological sense atropine and eserine are flammation, withhold the atropine until a further insynonymous with the terms mydriatic and myotic. vestigation is made. Increased intra-ocular tension Each is a representative of the class to which it be- unattended by other objective manifestations of dislongs. Duboisine is a more powerful mydriatic than ease can safely be taken as a key-note to glaucoma, atropine, while pilocarpine is a greater irritant and a in so far at least as the use of atropine is concerned. less powerful myotic than eserine. A few cases that For a better comprehension of the manner by which have come to my notice recently, forcibly illustrating atropine energizes the glaucomatous process it bethe misuse, or I might say the abuse, of these valuable remedial agents furnish me material as well as occasion for inviting the attention of the profession to this seemingly threadbare subject. The cases which I desire more especially to signalize at present was the various theories that have from time to time were victims of the misapplied use of atropine. Some been advocated concerning it would fill a volume of of them had been rendered hopelessly blind by a no mean dimensions. It was formerly supposed to single drop of a solution of the drug. While it is be the result of a hyper-secretion. Even von Grafe, perhaps impossible, in hundreds of cases, to show whose brilliant acquisitions in the field of ophthalthat any possible harm has resulted from the empiri- mology have earned for him an endless fame, entercal use or administration of very many medicinal tained this erroneous view, and basing it upon the agents, it is quite different in the use of atropine as supposition that the iris furnished the superabundant secretion, did the iridectomy with the view of di-In order to avoid almost or quite criminal mistakes minishing its secreting surface. Thus did false reasmeans its inability to do harm when misapplied. To from the past; hence the work he did was no meas-

The increased intra ocular secretion is only one speculations and meaningless theories. Its very been performed it is eliminated by the organs of elim-name signifies ignorance in regard to the pathology ination and taken up by the general circulation.

Thus the equilibrium is maintained between secre-these circumstances may be widely dilated, pushed tion and elimination. The eliminating apparatus is forward against the posterior surface of the cornea. found chiefly in the anterior chamber at the point and deprived perhaps of its contractile powers by the where the periphery of the cornea and the base of destructive action of the worn-out and retained sethe iris seem to meet. This is composed of minute cretion. So long, however, as the contractile power infiltration channels that are lined with endothelial of the iris remains, eserine may prove invaluable by cells, and communicate with the spaces of Fontana stimulating its contraction, and by this means breakin the base of the iris. These in turn communicate ing up the little bands of adhesion that may have with Schlem's canal, which passes around the eyeball formed in and about the drainage passages in the in the sclerotic near the sclero corneal junction, and angle of the anterior chamber. The value of eserine empties in the anterior ciliary veins. When, there- is best demonstrated in an eye that is verging upon fore, the organs of elimination become diseased and an attack of glaucoma. It may cure the predisposfail to do their duty, the first result is increased ten- ing tendency to this fearful disease. In other words, sion, which is the first symptom of glaucoma. All if timely employed it may tide it over altogether. the other symptoms of this disease can be reasona. An eye is predisposed to glaucoma when the drainbly accounted for by taking the disease of elimina- age channels are taxed to their utmost capacity to tion as the starting point. Hyper-secretion is only maintain under ordinary circumstances the equilibthe pathological sequence of diseased and deficient rium between secretion and elimination. When the intra-ocular secretion is relationable beyond the period of its utility it becomes den fright, the secretion is rapidly increased and disorganized, and furnishes a fruitful source of irrita-thereby the drainage apparatus becomes further emtion and disease not only to the organs it was de-barrassed by compression, the increased intra-ocular signed to nourish, but to all others with which it tension must be the physical result which, if permitcomes in contact. The consequent result of this is ted to continue, will be rapidly followed by all the increased secretion. Hence the increased tension other symptoms of glaucoma. Eserine, if timely which had its origin in defective elimination is rapidly employed in such a case, may furnish complete remultiplied until it cuts off the circulation from the lief by contracting the circular fibers of the iris and retina and optic nerve, which, together with the con-drawing the bulk of it away from the angle of the stant pressure maintained on these parts, produces anterior chamber, and thus liberating the compressed atrophic changes which result sooner or later in the drainage apparatus, while the use of atropine must complete destruction of vision. From this it is evident that the retention of the worn-out intra-ocular the iris and tucking it back, as it were, into the alsecretion is responsible directly or indirectly for all ready narrowed angle of the anterior chamber, and the intra ocular changes that take place in glaucoma, thus further obstructing the drainage channels. and that this disease is, properly speaking, a disease of elimination.

ing glaucoma when fully developed, for the iris under indispensable to the ophthalmic practitioner as opium

There have been many conflicting statements in regard to the action of atropine. Some have even This hurried and imperfect explanation of the asserted that it is powerless to diminish intra ocular glaucomatous process clears the way to a better tension, and in their eagerness to prove their assercomprehension of the deleterious action of atropine tions at all hazards, have made a shameful exhibition and of the prophylactic influence of eserine in this of ignorance by citing its action in glaucoma. This disease. In other words, it enables one to discern is only a repetition of the old story of "Hamlet with more clearly how atropine may increase intra ocular Hamlet left out." In a healthy eye with a full sized tension and how eserine may diminish it. Atropine anterior chamber and a good drainage apparatus, being a pupil dilator, forces the iris back into the atropine diminishes the volume of the healthy circuangle of the anterior chamber, which is occupied by those minute channels which perform such an image of the atropine diminishes the volume of the healthy circuangle of the anterior chamber, which is occupied by those minute channels which perform such an image of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the atropine diminishes the volume of the healthy circuangle of the healthy circu portant part in the process of elimination. It causes health. It is the former action, however, that frethe iris to act like a valve in closing them, thus dequently furnishes rational data for its application in stroying the equilibrium between elimination and sedisease. In iritis there may also be increased intracretion. It favors the accumulation of the latter and ocular tension as the result of a swollen iris, and an rapidly increases the intra-ocular tension. I have, in increase of the intra-ocular circulation. In tension one or two instances, known it to increase the ten- arising from this cause atropine is indispensable. Insion so rapidly and violently as completely to destroy creased tension in iritis is by no means constant, yet an eye in a few hours. It was so rapid and violent atropine is urgently demanded. It diminishes the that it left no opportunity for operative interference, tension in the same manner as it lowers the normal and left not a vestige of vision. Thus atropine not tension of a healthy eye. It relaxes the iris, diminonly accelerates the action of glaucoma, but may ishes the caliber of the vessels, and favors the abrapidly develop it in an eye verging upon this disease, or having only a slight predisposition to it. Eserine, being a pupil-contractor, pulls the iris away from the angle of the anterior chamber, and thus assists in freeing the obstructed organs of elimination. It is not claimed for eserine that it is capable of cursurgeon. It is the great ocular sedative. It is as

and its preparations are to the general practitioner, and freeing the eliminating channels, and thus re-The more useful is a remedial agent the greater is establishing the equilibrium between secretion and the tendency to its abuse. To avoid this evil a remellimination. In serous iritis the anterior chamber is edy should not be used empirically, but rather as a deepened by the iris being somewhat dilated and result of scientific investigation in so far as it is pressed backwards against the lens capsule. Here practicable.

Eserine in iritis would be almost as calamitous as atropine in glaucoma, by contracting the pupil, increasing the engorgement of the vessels and rendering the products of inflammation more profuse. Eserine, however, is often serviceable when there is a perforating ulcer in the periphery of the cornea, by contracting the iris and holding it away from the perforation, and thus, perhaps, preventing an anterior synechia. It has also been advantageously employed in retinitis pigmentosa. In this disease the periphery of the visual field is imperfect, and it is difficult for the patient to draw the line of demarcation between the perfect and the imperfect part of the field, and vision consequently becomes confused and indistinct. Eserine here contracts the pupil and cuts off the imperfect part of the visual field, which obtains for the patient a better definition of objects by permitting the use only of the central part of the field, in which there may be good sharpness of vision. Since this effect can readily be obtained by a mechanical device, I think its use for this purpose is very questionable. is frequently indispensable in correcting errors of refraction by relaxing the spasm of accommodation. rounded with perplexities and doubts. Since eserine and atropine are so potent for good or evil, it will be useful to have some well formulated ideas about their application. For this purpose I will summarize as briefly as possible, first, the various effects of atropine on the healthy eye. It lessens rectitude of which you have a doubt." The attempt intra-ocular tension in an eye that is healthy and normally constructed. By normal construction I mean an eye that is emmetropic and has a full-sized ante-patient's vision and the physician's reputation. To rior chamber.

tension by diminishing the calibre and contents of I will classify certain prominent objective symptoms internal vessels and checking the secretion of the which should always be carefully reviewed before ciliary bodies. It lessens the tension in iritis by dropping into an eye either a solution of atropine or contracting the radial fibres of the iris, which in turn eserine: contract the over-distended and engorged blood-vessels, thus diminishing the bulk of the iris and the pronounced and has a decided venous hue. The eye ciliary bodies. It checks the inflammatory exudation secretion to reach the organs of elimination.

is a shallow anterior chamber by dilating the iris and posterior surface of the cornea. Observing the same tucking it back into the angle of the anterior cham- order of symptoms in serous iritis, the circumcorneal ber, and compressing the channels of elimination injection is rather indistinct and not so well marked In serous iritis its action is feeble, changeable and as in glaucoma, and the tint is more delicate, the unreliable. Eserine diminishes intra-ocular tension haziness of the cornea is not so uniform, and the when the anterior chamber is shallow, the iris sluggish lower segment of it on its inner surface is irregularly and partially dilated, with its anterior surface resting occupied with small white dots more or less numerperhaps against the posterior surface of the cornea, ous in proportion to the severity of the attack. by contracting the circular fibres of the iris and draw- anterior chamber is deep and large mostly at the exing it away from the angle of the anterior chamber pense of the posterior chamber. The aqueous humor

eserine is rather uncertain, yet it may be safely employed with the view of breaking up any little adhesions that may have formed about the drainage channels. Again, eserine increases intra-ocular tension temporarily in a healthy eye by increasing the quantity of the circulation in the iris and the ciliary bodies, which in turn increases their secretion. For a similar reason it increases the tension in iritis, and therefore augments the products of inflammation and favors adhesions of the iris to the cornea or the lens capsule. Therefore, I reiterate, atropine in glaucoma hastens the destruction of the eye, and in an eye verging upon glaucoma may rapidly develop the disease in the most violent form. Eserine may prevent the occurrence of glancoma when an eye is predisposed to the disease and mitigate the symptoms of a fully developed case, and as it were postpone the destruction of the organ till an iridectomy can be done for its relief. In iritis atropine is absolutely indispensable and eserine may destroy the organ in a very short space of time. Hence, it is as important to know when to withhold these remedies as it is to I have only time and space to observe that atropine know when to employ them. I am free to admit that the indications for their use are sometimes sur-

"Our doubts are traitors, And make us lose the good we oft might win By fearing to attempt."

to decide certain obscure cases extemporaneously and hastily has resulted many times in the loss of the rid this important subject as much as possible of the In such an eye the atropine lessens intra-ocular doubts and perplexities that occasionally surround it,

In glaucoma the circumcorneal injection is well presents a dusky, staring appearance. The entire and favors its absorption. It also diminishes the cell surface of the cornea is steamy and looks much like proliferation and the transmigration of white corpus- ground glass. The anterior chamber is very shallow, cles, and by contracting the iris it breaks up synechia the aqueous humor, from the diminished calibre of that may have been formed, and reëstablishes a free the chambers, appears scanty. The pupil is widely communication between the chambers, allowing the dilated and ovoid in form. The iris appears thin, dull, stationary, its fibres obliterated and its surface Atropine increases intra-ocular tension when there bulged forwards till it nearly or quite touches the

is abundant and more or less turbid. The iris presents a sullied, dirty appearance, though not so insite of the true cranial case.)
less as in glaucoma. Its fibrillar structure is better of the true cranial case.)

In the sphenoid bone. The orbital portion of the

glaucoma it is ovoid in form.

In iritis the circumcorneal injection presents a moderately well-marked, red color, due to arterial as well as venous injection. The cornea is unaffected. The anterior chamber is shallower than normal, caused by the thickened condition of the iris. The aqueous humor is more or less turbid in consequence of the effused products of inflammation. The pupil is somewhat contracted, irregular, and in severe cases adherent posteriorly or anteriorly. The iris is thick and swollen, discolored and somewhat nodular.

Such are the prominent objective symptoms that may assist in doubtful cases to differentiate between glaucoma, iritis and serous iritis. Let the watchword be "atropine in iritis and eserine in glaucoma."

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# THE MECHANISM OF INDIRECT FRACTURES OF THE SKULL.

BY CHARLES W. DULLES, M.D.,

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(Continued from page 342.)

ANATOMICAL PECULIARITIES OF THE SKULL.

Having now briefly considered the elastic properties of the skull, let us next study its anatomical peculiarities, which, as I have already pointed out, may be expected to modify the results which might be expected if the shape of the skull were regular and its thickness uniform. These pecularities must be given due consideration if we would avoid the error of applying too rigorously the bursting theory; at the same time they must not be over-estimated. facts explain the many fractures which are found to This was the error of Félizet, who was right in attach- run parallel to the crest of this bone, and which have ing great importance to the architectonic conditions often been wondered at. In like manner the curious of the skull, but who was mistaken in supposing that course which a fracture sometimes takes at right his buttresses and centre of resistance would stand angles to the main axis of the petrous bone may be as a general law. Both of these theories depended show that this view may be applied too rigorouslythe various bones of the skull are as follows:

sometimes on both sides of the crest for the attachment of the falx cerebri.

In the ethnoid bone. The horizontal plate. (The

greater wings, and the walls of the sphenoidal sinuses. The basilar portion of this bone has a deceptive appearance of strength, on account of its thickness; but on section it will be seen to be of such open cancellated structure that it is not surprising to find that it is very often fractured.

In the parietal bones. The lower border, just above the parieto-squamosal suture, and both of the in-

ferior angles.

In the occipital bone. The floor of the cerebellar fossæ; and to a less extent the floor of the posterior

cerebral fossæ.

In the temporal bones. I take these bones last because they present some extremely interesting anatomical pecularities, the importance of which I have not found dwelt upon as I think it ought to be. The thinness of the squamous plates is too familiar to need more than mention. But the temporal bone is also often very thin over the cotyloid depression for the head of the inferior maxilla. The mastoid por-tion is also sometimes occupied by such large open spaces as materially to weaken its walls. The petrous portion does not, on section, present everywhere that solid and rocky appearance to which it owes its name, and which it only partly deserves. The roof of the external auditory meatus is sometimes very thin, in a line parallel to and anterior to the superior ridge of the bone. The floor of this canal is also comparatively thin. The plate of vitreous which covers the anterior inclined plane of the bone is often a mere shell over the promontory above the inferior semicircular canal, and further back, in front of the groove for the superior petrosal sinus, it overlies a mass of honeycombed cancellated tissue which communicates with the large cells of the mastoid process. These firm against all or most fractures. So Aran, before understood when we study the channels and excavahim, was right in supposing that fractures starting in tions belonging to the middle and internal ear, the one fossa of the skull would often be limited to that internal auditory meatus, the carotid canal, the groove fossa; but he erred in supposing this could be stated for the inferior petrosal sinus, and the jugular foramen.

These are some of the weak points of the bones of upon what we may call the accidents of fractures of the skull. Others might be mentioned; as for exthe skull; the essential, I believe—and the future may ample, the antero-lateral rim of the foramen magnum, which, in some cases, is very porous, and far from so is to be found in the elastic properties of the skull, strong as its thickness would indicate. It will be as revealed not only by the experiments of von Bruns noticed that all of these thin parts of the skull lie in and of his German followers, but also by those of or near the base, and cliffical observation shows that Aran and of Félizet themselves, and by the investi-they are very frequently the seat of fracture. There gations of others before their time, to whom allusion are a few other anatomical pecularities of the skull has already been made in the historical sketch at the to which I would like to call your attention before I beginning of this paper. The thinnest portions of leave a part of our subject which might well occupy much more time than we can spare it. First, in In the frontal bone. The walls of the frontal sin- regard to the posterior clinoid processes. It was uses; the orbital plates; the temporal portions; and long a matter entirely unexplained that violence done to the skull was followed by no fracture, except one breaking off the posterior clinoid processes of the

skull.

bones are never, I believe, united by bony union or close-fitting dentations, like the other bones of the INFLUENCE OF THE SOFT PARTS AND CONTENTS OF Their adjacent surfaces are simply applied against each other and united by a membranous or hensible.

strain it from rupture to such an extent that a fissure of investigation. will pass on both sides of the protected region rather than through it. This form of fracture is illustrated pendente attributed fractures by counterstroke to the um of this College.

#### ARCHITECTONIC PECULIARITIES OF THE SKULL.

oval shape of the skull, its various curves, arches, and and its membranes, with the surrounding fluid, comgeneous character of the vault, and the irregular terials of which we have any knowledge. Under the and its so-called sinuses. These are too complex to laws of hydrostatics. As a full cask may be burst by be detailed here, and too familiar to all to make this a blow, so there can be no doubt the skull may likenecessary. But I would call your attention to what wise be burst. The statements often made, which Felizet has laid so much stress upon, the reinforce- affirm or imply that the skull and its contents can be greater wings of the sphenoid bone with the frontal fluid contained in the cranium, in a state of health, and temporal bones, and of the petrous portion of is far too little to justify any such comparison. Bethe temporal bones with the parietals; at the ridge for sides which, it is contained in a firm, unyielding case; the attachment of the longitudinal and lateral sinuses while it is indispensable to a water-bed that its walls may well bear in mind the comparative roundness of spinal fluid could be regarded as a protective against

But the explanation is easy enough the vault and flatness of the base, and the wedge-like if we accept the "bursting theory," and recognize the insertion of the lower borders of the parietal bones fact that the tentorium cerebelli is attached in front between the bevelled upper edges of the squamous to these processes, and that when the long diameter bones, and the projection of the ends of the petrous of the skull is increased the tense tentorium holds bones against the basi-sphenoid, of which I have alback with an unyielding strain and tears these pro- ready spoken in detail. For most of the points one cesses from their attachments to the rest of the bone. may consult the works on general and special anat-In this we have both a full explanation of the mechan-omy, or, better still, the skull itself. They all must ism of these fractures and a beautiful confirmation of be considered in studying variations from the result the "bursting theory" of indirect fractures of the to be expected from the application of any given theory in regard to the mechanism of fractures of the Again, I may call attention to the peculiar condi skull, although, as I have said, they need not be extions of the basi-sphenoid and petrous bones. These pected to controvert any law of general applicability.

# THE SKULL.

This is another portion of the study of fractures of ligamentous band. The plane in which these bones the skull to which more time ought to be devoted articulate is such that the basi-sphenoid is placed like than we can spare now. In a general way, it may a wedge between the apices of the two petrous bones. be said that the external and internal coverings of As a consequence, any force, like a blow on the ver- the skull—the dura mater and the pericranium, with tex driving the cranium down upon the spinal column, the muscles, fasciæ, and skin-tend not only to or a fall upon the buttocks or feet, driving the spinal deaden vibrations to such an extent that it is hard to column up against the cranium, will have the effect know how to understand many expressions of those of forcing the wedge-shaped basi-sphenoid upward who have accepted what is known as the "vibration and forward between the two rigid petroas bones, theory," but also to limit to a moderate extent the with the frequent result of knocking off one or both changes in shape which the skull may undergo, acof the apices of the latter. This form of fracture is cording to the "bursting theory" The action of the another which has excited much surprise and some muscles must also be considered of importance, as fanciful explanations; but, in the light of what has exemplified in such involuntary and spasmodic conjust been stated, it seems to me to be quite compre-tractions as prove sufficient of themselves to break other bones, and which may have more effect here Finally, I have been struck by the fact that certain than has yet been suspected. Let us imagine, for peculiar fractures of the base of the skull seem to example, what might be the effect of a spasmodic have been due to support of a segment of the oc-contraction of the erector mass at the back of the cipital bone furnished by the inclination upward and head when a sudden blow comes upon the anterior outward of the articular surfaces of the atlas, which part of the vertex, tending to flex the head. I wish embrace the condyles of the occipital bone and re- it were possible to go further into this inviting field

As to the contents of the skull, Fabricius ab Aquaby a beautiful specimen taken from the Mütter Muse- effort of the air, which he supposed the skull to contain, to escape from its cavity. We know better than this, but it does not seem needless to call attention to the fact that the skull is filled with a much more I cannot now do more than allude to the general incompressible material than air. In fact, the brain buttresses, the comparatively even shape and homo-pletely fill the skull with the most incompressible mashape and varying thickness and thinness of the base, influence of a blow, this material tends to increase with its prominences and depressions, its channels the disruptive force, according to the well-known ment of certain regions, as at the junction of the compared to a water-bed, are utterly erroneous. The within the skull and at those for the attachment of shall be soft and yielding. It has also been intimated muscles at the back of the head, which vary in im- - and so able a man as Mr. Hilton thought he had portance in different individuals. In addition, we demonstrated—that displacement of the cerebroinjury when the skull was struck. Mr. Hilton's ex- junction of the petrous with the basi-sphenoid. One is directly periment was not free from an important source of error, and one who studies carefully the anatomical peculiarities of the cerebro-spinal axis must see, I think, that there is only one way for compensatory diminution in the contents of the skull to take place, namely, by displacement of its contained blood through its natural channels. This displacement can and does take place when time is afforded for the process, as in the case of a growing tumor; but the rapidity with which a blow tends to diminish the capacity of the cranium far outstrips the speed with which the blood can escape; so that, as a matter of fact, the skull and its contents may be regarded as the very opposite of a water-bed, and more like a cask filled with fluid which may burst under a sudden increase of the pressure upon the inside of its walls. This fact is established not only by a correct knowledge of the physical conditions of the cerebro-spinal axis, but also by experiments and observations which I cannot stop to mention now.

#### STUDY OF CASES.

A great difficulty confronts at the outset one who tries to discover in how far the study of actual fractures of the skull will bear out any theory in regard to their mechanism which seems plausible. The difficulty depends upon the difference between the known factors in an experiment and the unknown factors in an accident. It is often impossible in the case of a fracture of the skull, to ascertain exactly the amount and direction of the force, the point to which it was applied, and the conditions of resistance or evasion of the whole cranial box. The consideration should lead to a modest and reserved fitting of what seemed to be facts to any theory. Nevertheless, nothing can be learned by standing still; and we may, if not over-confident, make some advance in knowledge by testing a theory by an observation of what actually takes place. With this object in view I have examined the published accounts of a very large number of cases of fracture of the skull, and I have collected more than a hundred (119) in which the details seem occurred, and as to the results produced.

CLASS A<sup>1</sup>. Fractures caused by blows on the frontal region. Of this class I have only two cases. One caused by a kick from a horse above the right eyebrow, causing a direct fracture here, and an indirect meridional and oblique fracture of the parietal bone of the same side. The other case presents a fracture caused by a blow with the handle of a pitchfork, high up on the frontal region. The fracture is in the base, is meridional, and passes from the right orbital plate through the sphenoid bone and the basilar process of the occipital, leaping across the fora-men magnum, from the back edge of which start two converg-ing fissures which meet in the cerebellar fossa on the left side, and above the groove for the lateral sinus.

CLASS A<sup>2</sup>. Fractures caused by falls upon the frontal region. Of these 1 have thirteen cases. Twelve present meridional fis-Of these I have thriteen cases. I were present meridional issures; five of them being directly longitudinal, three of these passing directly through the whole basi-sphenoid bone. Seven are oblique; two of them bifurcated, and one passing through the whole basi-sphenoid bone; one passes from the point of impact to the lower part of the ridge for the straight sinus, after having passed across the middle of the petrous bone and encircled the foramen magnum. One shows a ring fracture, in addition to a meridional fracture from the frontal bone to the

opposite to the point struck, is extensive and bifurcated.

CLASS B<sup>1</sup>. Fractures caused by blows on the occipital region.
Of these I have only two cases. One was caused by a spent
ball striking the occiput to the left of the middle line, and shows an independent meridional fracture passing alongside of the internal ridge to near the foramen maguum, then crossing the petrous bone, dividing it transversely to its principal axis, and ending in the foramen spinosum. The other case is a specimen from one of Perrin's experiments, in which the skull was thrown on a stone pavement covered with a layer of india-rubber. There is a separation of the coronal suture, and a prolongation of this as a bifurcated fissure in the right squamous bone. This specimen shows a division at right angles to the meridian, which may be due to an unusually weak union in the coronal suture, or to some peculiarity of the experiment. I have included this specimen among my drawings, because it is diametrically opposed to the bursting theory. But I think an experiment which involves throwing a skull detached from the body cannot be considered very reliable in comparison with those in which the skull is fixed.

CLASS B2. Fractures caused by falls, striking upon the occipital region. Of these I have twenty-one cases. All show meridional fractures. Two of these pass directly through the crest for the lodgment of the straight sinus to the foramen magnum. One passes to the foramen magnum near this crest. Two pass through the whole of one side of the occipital bone, and one splits off a piece of the parietal, and separates the lambdoid suture in part. One divides the frontal bone into halves. Six pass round the foramen magnum on one side, three dividing the petrous bone longitudinally and one transversely. One shows a longitudinal fracture passing across the foramen magnum and dividing the basi-sphenoid bone, as well as a partial ring-fracture. In two the fracture passes meridionally round the side of the head. One shows an independent

fissure on each side, in the parietal bones.

CLASS B3. Fractures due to blows on both the forehead and occiput. One such case I have found recorded by Herpin, in which there was a succession of bumps on each of these parts. The resulting fracture is a long fissure, passing longitudinally from the internal occipital protuberance to the foramen cæcum, passing round the foramen magnum, very close to it, and divid-ing the whole of the basi-sphenoid; a beautiful meridional fissure.

CLASS C1. Fractures caused by compression in a longitudinal direction: accidental. Hewitt records two cases of this sort. In the first, a man fell on the back of his head, and a piece of timber fell on his forehead. The fissure is independent, and partly meridional. It divides longitudinally the middle of the horizontal plate of the ethmoid bone and the middle of the body of the sphenoid bone, passing then to the right through the greater wing of this bone, and bifurcating before passing in two hissures upon the squamous plate of the temporal bone. In the second, the history is far from clear, but it seems that the fracto me to be sufficient to warrant an approximative ture was caused by the compression of a cartwheel passing across estimate as to the conditions under which the fracture the forehead. The fracture is meridional and exactly like several in the next class.

CLASS C2. Fractures caused by a compression in a longitudinal direction: experimental. Of these I have nine cases. Six show mendional fissures. One divides the skull from front to back over the vault. Three divides the skull to an equal extent through the base, passing round the foramen magnum. In two there are two independent fissures. In one of these cases one of the two fissures is not meridional. Three of the cases show complicated fissures which may be due more to crushing than to bursting.

CLASS D1. Fractures from blows on the parietal region. Of these I have only four cases. All show meridional fissures. Three pass straight down to the apex of the petrous bone, and

one passes also up to the vertex.

CLASS D<sup>2</sup>. Fractures caused by falls striking on the parietal region. Of these 1 have fifteen cases, in all of which I think the fractures may be considered meridional. Four pass along the horizontal equator of the skull. Seven are transverse, three crossing the base from side to side, two going half way across, one involving only the ends of the petrous bone, and one passing across the vault at the back part of the parietal bones, and then passing forward to the base. Four are diagonal, two of them passing the sella turcica.

CLASS E. Fractures caused by compression in a transverse

fractures are transverse and meridional. Two pass across the basi-sphenoid bone and upward on both squamous bones. In one both parietal bones are split independently, the fissures passing down through the petrous bone. In one the coronal suture was separated, and a piece broken out of each parietal, beside an independent fracture of the occipital and petrous bones at the base on one side.

CLASS E2. Fractures caused by compression in a transverse direction: experimental. Of these I have five cases. In all the fissures are transverse and meridional. In four the basi-sphenoid is divided transversely, and in three the fissure involves also the temporal bones. In one case the coronal suture is disarticulated.

temporal bones. In one case the coronal suture is usual usual CLASS F. Fractures caused by falls striking on the temporal region. Of these I have only two cases. In one the fracture is meridional, in the other it is equatorial, and seems to illustrate the shoving of the posterior half of the skull over the anterior half by the impact of the spinal column on the base in

an oblique direction.

CLASS G. Fractures caused by compression in a diagonal direction: experimental. Of these I have five cases. In four the fissures are meridional, two being quite complicated. In one case there is a separation of the posterior interior angle of the parietal bone, and the dorsum of the sella turcica is broke 1 off. CLASS H1. Fractures caused by blows on the vertex: acci-

dental. Of these I have six cases. In all the fractures are meridional; in five they are transverse and in one longitudinal. CLASS 112. Fractures caused by blows on the vertex; experi-

mental. Of these I have three cases. All of them show beautiful meridional fissures, one transverse and two longitudinal, one of the latter dividing the skull completely into halves.

CLASS 11. Fractures caused by falls upon the vertex; accidental. Of these I have seventeen cases. In all the fissures are meridional and can, I think, be attributed to a burst. In one the front half of the skull is divided longitudinally, and in one the posterior half is similarly divided. In one the fissure divides the skull into halves longitudinally; in two it divides it into halves transversely. In one the basilar artery was found caught in a transverse fissure of the basilar process of the occipital bone.

CLASS J<sup>1</sup>. Fractures caused by falls upon the condyles (transmitted from feet: accidental. Of these I have only three cases. In two both posterior clinoid processes were broken off—which can be attributed to the lengthening of the antero-posterior diameter of the skull—and there was a transverse fracture of the apex of the petrous bone. In the third case there is only a longitudinal fissure of the horizontal plate of the ethinoid bone on one side.

CLASS Jt. Fractures caused by blows on the condyles; experi-mental. Of these I have four cases. In all of them the dorsum of the sella turcica has been torn off by the elongation of the antero-posterior diameter of the skull. In two cases this is the only fracture. In one case the whole base is also divided transversely, the fissure passing across the basilar process of the oc-cipital bone. In one case there are also three independent fissures, all transverse.

#### CONCLUSION.

The analysis of these 119 cases shows that 111 present fissures which correspond to what might be expected from an application of the principles of the "bursting theory," and only eight seem to contradict it. This result, which has surprised me by its apparent completeness, seems to establish this theory by the best test which we can apply to it, so that it appears to rest upon a very firm tripod of reasoning, experiment, and clinical observation.

I trust it will not be supposed that, in making so much of the bursting theory in this paper, I have seat of the applied violence. overlooked the fact that there are fractures which

direction: accidental. Of these I have five cases. In all, the there are others in which, as I have noted in passing, one segment of the skull seems to be shoved over the other by forces of pressure and counter-pressure which require some study before their mode of operation can be understood. In this connection it is of importance to learn in any case the position which the skull has held in relation to the spinal column, or to any body capable of exerting counter-pressure. No less is it important not to overlook the counterpressure which is caused by the simple vis inertia of the skull, and its contents.

But it would be impossible to speak of all the influences which may modify the strict application of any one theory in regard to fractures of the skull. I have laid before you all the evidence which I now can in regard to this matter; and I must close with the expression of my own conviction that the supreme law governing the production of indirect fractures, is that which depends upon the fact that the skull is practically a hollow elastic case, approximately oval in shape, and which may be briefly formulated as follows: When a sufficient force is applied to any curvilinear part of the skull, if this part do not give way immediately, the axis of the skull lying in the same line as that of the applied force is shortened; all the axis lying in planes at right angles to this line are correspondingly lengthened, with a proportional lengthening of their circumferences, and separation of their meridians; so that the direct depressing force is converted into an indirect disruptive force acting at right angles to the direction of the former. The effect is to produce a fissure, or fissures, which will have a general meridional direction.

The application of this law is subject to certain modifications due to the anatomical and architectonic peculiarities of the skull, its coverings and contents. and to certain exceptions due to the amount and velocity of the force applied as well as to the coming into play of peculiar counter-forces.

Dr. Agnew remarked: The paper just read is very interesting, and on a very interesting subject. I must say, however, that I cannot agree with Dr. Dulles as to the mode of fracture—the elasticity of the skull is too insignificant. I still hold to the old vibratory theory. I satisfied myself of the correctness of this by experimenting with ivory balls, suspended in such a manner as to touch different parts of the skull and watching the effect on these balls when the cranium was struck. Fractures of the skull, in the vast majority of instances-when the force is concentrated on a very limited surface—occurs at the point of impact. The force which gives rise to fractures at the base is usually a diffused one, and if applied at the vault of the skull travels to the base by the shortest route, the vibrations concentrating or focusing on certain fossæ in nearest relation with the

Dr. PACKARD said: It seems to me that there are cannot be accounted for by it. There are some fracture two points not mentioned by Dr. Dulles which can tures in which the force applied is so great, and acts hardly be left out of the account in considering the in such a manner, that the skull is crushed so as to subject of these fractures. One is the direction of hide any evidence of the play of its elastic proper- the bony fibres—the intimate structure of the bones, ties, the fracture being of a comminuted sort; and as distinct from their mere shape. The other is the

momentum of the fracturing force. Some ten years hand, the ligature, being drawn taut, approximates ago I reported a case in which a man was struck by the internal and external orifices at once, strangulates, a locomotive moving at such a speed that he was carried along in front of it for a distance of forty feet before he was flung over to the other track, receiving, among other instantly fatal injuries, a fracture which completely separated his skull into two portions, an anterior and a posterior. Between such terrific violence as this and the blows or falls which are the sion, the wound healing, and apparently my patient usual causes of fracture of the skull, there are, of course, innumerable gradations, with corresponding on the nates, near the outlet of the canal, which had influences on the lesions produced.

pare a paper of the kind which I have presented this me at once, that the source of this was in a portion evening in such a way as to meet in advance all the objections which might be raised in regard to it; destroyed by the operation, which is due to no fault neither would it be possible in the time at our dis- of the operator, but to a tenacity of life in the pyoposal for disscussion to answer all such objections. I would only say briefly, that all that is claimed for the "bursting theory" is, that it seems to account for a very large number of indirect fractures. Experience alone can determine the reliability of any theory, and while I have become convinced of the correctness of this one, time will decide the matter.

In answer to the objection raised by Dr. Formad, I would like to say that it is not really an objection, canal, nor communicating with any remote pyogenic but rather supports the "bursting theory." The frac- surface, membrane or canal. tures passing horizontally, of which he speaks, are just as much meridional as though they passed vertically. As I show you on this skull, any line passing thereby promoting granulation, filling up the cavity round the surface in the shortest direction from pole to pole-that is, from the point of impact to the antipodal point, is meridional, and the line passing horizontally is as much meridional as any.

Finally, in regard to the case about which Dr. Formad asked a question, I would say that I do not now recall a single instance of the many which I have investigated, in which a stellate fracture was not a direct fracture; and I believe such an appearance is applied at that very spot. This violence, of course, appears, or to a fall in which the head strikes some resisting body at this point.

# PYOGENIC CYSTS AFTER OPERATION FOR FISTULA IN ANO.

BY GEO. N. MONETTE, M.D., OF NEW ORLEANS, LA.

Resultant upon operations performed for fistula in ano, I have had under my observation two cases presenting localized pyogenic cysts. I say cysts, because of the fact that, for a certain length of time, the secretion was not apparent, and when the cystic calibre was exhausted, there would be a flow of pus for several days, until it became encysted again. Since both of these cases were operated upon by inci- times would a large stream be thrown out. All doubt sion, I have been constrained to express a preference to my mind as to whether the urethra was pervious for the ligature in the destruction, curatively, of fistulous canals.

prone to heal too quickly to perfect the destruction the fundus of the bladder to the umbilicus, and of the pyogenic surface of the canal. On the other known as the urachus, had persisted in its fœtal form

and apparently makes a deep fistulous canal seem to be a superficial one. Granulations supply the underlying pyogenic membrane with such rapidity that the same is readily detached, brought or pushed to the surface, and destroyed more completely.

One of the cases I operated upon myself by inciwas cured radically. A cyst was superficially located no connection with the rectum, nor was it deep in DR. DULLES said: It would not be possible to pre- the muscular structures. It was made manifest to of the pyogenic canal not having been completely genic membrane forming the fistulous canal, which soon organizes, becomes encysted, and produces pus and develops into a cyst.

> The second case was operated upon by another physician (since deceased), with identical complications. I probed the depth of this case, and found that the cavity was one-fourth of an inch only, and of course not having any connection with the rectal

> The treatment of such cases is patent: first, we until the continuity of the integument is reëstablished.

### A CASE OF URINARY UMBILICAL FISTULA THROUGH A PATENT URACHUS.

BY J. H. YARNALL, M.D., OF GEORGETOWN, D. C.

Every physician now and then is confronted with an indication that the fracture was caused by violence anomalous constructions of various parts and organs of the human body, and which are always of more may be due to a blow on the point where the fracture or less interest to the medical student. Especially are these irregularities interesting when the anomaly is striking and rare, and then do they become worthy of record by adding to the curiosities of medical experience.

I was called, on December 10, to see Joseph W., a colored infant about five weeks old, who, as the father reported, "was passing his water through his belly;" and on close inspection such I found was literally the truth; for with every cry and struggle of the child, urine oozed through the umbilicus. The child had been born at full term, and was of good size and well nourished, but since its birth its mother had noticed that it was impossible to keep the child clean and dry, and on closer inspection she observed that water would dribble from the umbilicus, and at or no, was soon dissipated by a copious stream per vias naturales. It was very obvious from these con-The incised canal, with its continuity severed, is ditions, that the fibro-muscular ligament passing from

of a duct. The umbilicus itself was slightly hyper. Fortunately, it has no odor and no disagreeable taste. alba, and into the bladder.

birth of this child, she informed me that the cord of two portions, separated by a web, and that it did not separate readily, and when separation occurred

urine was passed.

urine by either channel."

continued to well around the cork. I then applied umbilicus resume its normal appearance.

tient researches, one of which occurred in his own corded two cases of cardiac insomnia treated sucpractice, shows that the treatment of all these cases cessfully by two-grain doses of urethan, given at bedby pressure and caustics alone, was futile, and in the time in solution in water. One of these was a case three in which a cure was obtained, the ligature of aortic and mitral incompetence, with conjection of around and through the tumor was used. Dr. R. G. the lungs, hæmoptysis, pleural effusion, and ædema Cabell, of Virginia, reported a case of this deformity of the legs. The patient, as soon as he fell asleep, shown him as a curiosity, of a mulatto girl of fifteen awoke with a dreadful feeling of suffocation, and for years, and he says she "experienced no uneasiness three nights had little or no rest, but subsequently, or inconvenience from this unnatural passage to her with the aid of urethan, he slept well and his condi-

The last case which I have seen recorded was by Dr. Charles B. Waller,3 of the Rotherham Hospital, Yorkshire, England. The patient was a male child five months old, and through the urachus he was able to pass a No. 8 silver catheter. The treatment pursued was the dissecting out of the urachus, ligating, dividing and dropping the end into the abdominal was discharged cured, on the sixteenth day after entering the hospital. Previous to the operation pressconclusion, I would state that I report my case simply as a remarkable vagary of nature.

# MEDICAL PROGRESS.

URETHAN AND HYPNONE.—Urethan is the æthylic ether of carbaminic acid, and its chemical composition may be represented by the formula C, H, NO...

trophied and indurated, and also excoriated, as was It may be obtained in beautiful white crystals, which also the surrounding integument to a less degree, are freely soluble in water. Its action on man has Upon the umbilicus was a small, dark red, conical- been investigated by Jolly, Kobert, and von Jaksch, shaped tumor, with its apex external, and it was from of Vienna. Von Jaksch's observations were made a small discernible orifice in this apex that the urine on twenty patients suffering from various forms of inwas passed. I was able to pass through this open-somnia. His first experiments were with doses of ing a small gum catheter, in the direction of the linea \( \frac{1}{2} \) of a gramme, or about 4 grains, but this was insufficient to produce any distinct hypnotic action. On questioning the midwife who presided at the He then increased the dose to nearly 8 grains, and found that this usually sufficed to produce several hemiplegia associated with disease of the mitral valve, whose general condition contra-indicated the employthe little conical tumor was left, through which the ment of morphine or chloral, it answered admirably, giving a good night's rest without any disagreeable The treatment applied was very simple, and the after-effects. Another patient, suffering from a paindesired result quickly attained. At first pressure ful aortic aneurism with persistent insomnia, was was made over the umbilicus by large cork, held in given a dose at 6 P.M., with little or no effect, whilst position by a bandage of adhesive plaster; this was another dose administered at 11 P.M., gave calm releft on for three days, and during this time the urine freshing sleep until 3 the next morning. Dr. von Jaksch made over one hundred observations with the sulphate of copper thoroughly over the surface of the drug, and is enthusiastic in its praise. It proved most tumor, and continued the pressure by bandage, and successful in simple uncomplicated cases, and was of after three more applications of the caustic had the comparatively little value when the patient suffered pleasure, two weeks after my first visit, of seeing the from acute pain. He states that it is particularly urine passed wholly through its proper canal, and the suitable for administration to children, the absence of disagreeable taste being a very great advantage. Dr. Guéniot, in a summary of seven cases of pa- A short time since, Dr. Sundby, of Birmingham, rebladder," for "she could at her pleasure evacuate tion greatly improved. The other case was one of cardiac dilatation, with mitral incompetence, the heart's action being very feeble and irregular. The patient had not slept for many nights, but urethan produced the desired effect, and she soon slept soundly.

DR. A. S. MYRTLE says: Since October, I have been using urethan in a variety of cases with satisfactory results. I have used it in over fifty cases as cavity. After slight febrile disturbance the patient a sedative and hypnotic, and my experience of its action encourages me to recommend the drug to the readers of the British Medical Journal, believing that, ure and caustics had been tried without effect. In in certain cases, it will prove of great value. The cases in which I have prescribed it were of the usual run of every day practice, where a sedative or hypnotic was required; general restlessness, sleeplessness, neuralgia, catarrh, certain forms of skin-affections with great irritation, also rheumatism and gout. Many of my patients had some peculiarity of constitution which prevented the use of opiates of the usual type; and it is in this special class that I think urethan will prove of great value. One gentleman, who had suffered from insomnia for weeks, and who cannot tolerate opium or chloral, took 15 grains at bedtime with the most perfect result. He wrote to me and said, "The sleep caused was the most pleasant and

Bulletin Général de Thérapeutique Médicale et Chirurgicale, Paris, 1872 Article, "Des fistulis urnaires de l'ombilic dues à la persistance de l'ouraque, et du traitunent qui leir est applicable,"

2 American Journal of Medical Sciences, 1848, 8 Medical Bulletin, Philadelphia, December, 1885.

refreshing. I awoke without a headache, with appe- which is collected in reservoirs near its origin, and in combination, it has the great advantage over bowels or kidneys; besides, it is not unpleasant to first dose three months ago.

For the other new hypnotic, we have to thank Dr. Dujardin-Beaumetz, who recently submitted to the Académie de Médicine of Paris the results of a series of observations on aceto-phenone, or as it is more commonly called, hypnone. This compound is prepared by the action of chloride of benzoyl on zincand acetate of calcium. It is a colorless mobile liquid, having an odor not unlike oil of bitter almonds or cherry-laurel water. It has a very decided physiological action, for a cubic centimetre injected under the skin of a guinea-pig produced a torpid comatose condition, from which the animal did not recover. The respiration was quickened, the heart-beats became fewer in number, the animal started convulsively, gradually grew colder, and died. To produce sleep, it should be given in doses of from 2 to 16 minims; and, if administered at bedtime, it uniformly produces a well-marked hypnotic action. It may be diluted give it is in capsules. It communicates to the breath masked by syrup of orange-flower or oil of sweet and by Dr. Huchard.—British Medical Journal, Febrnary 20 1886.

medical officer of health for Sheffield, has recently published an excellent and interesting report on the action of the Sheffield water on the lead communication-pipe and its effects on the health of the com-

tite for breakfast, and what was equally agreeable, and runs in a conduit to a reservoir at Crooke, there was no interruption to any of my functions." known as Hadfield Reservoir, whence it is distributed Similar testimony has been given by the majority of to certain high-lying districts; the other source is patients, who have taken full doses to produce sleep. from the hills around Strines and Agden, which runs In smaller doses, its action is less marked, still it is in a conduit to a reservoir known as Godfrey Reserdecidedly calmative and agreeable, causing no un- voir, and is thence distributed to the two low-lying pleasant effect, such as nausea, flatulence, constipation or headache. It does not effect the nervelead-poisoning resided in the high-lying districts. centres of circulation or respiration, but spends itself. The Redmires water is collected from moorland, the on the cerebrum. It possesses, therefore, great ad-surface peat varying in thickness from a few inches vantages the older and valuable sedatives, which have to several feet, and beneath this are shale and millcertain evil influences, especially in exceptional cases. stone grit of the carboniferous system of rocks; both Given in gout and rheumatism in full doses, alone or the peat and the shale contain iron pyrites, and the water was distinctly acid in reaction, the acidity bemorphia of not interfering with the action of the ing most intense in the higher portion of the collecting grounds. The Strines and Agden water was not the taste; the only objection to it is its price, although acid. The cause of acidity in the Redmires water that has been reduced 50 per cent. since I gave my was the subject of careful investigation, and it was found possible that this had resulted, firstly, from the action of soft water on the iron pyrites, giving origin to free sulphuric acid; secondly, from ulmic and humic acids, which are caused by the decomposition of vegetable substances; thirdly, from the atmosphere, which contains large quantities of sulphurous acid, the result of the large consumption of coal in methyl, or by distilling together a mixture of benzoate the town. Assuming that the first two possible causes had been in force, the impregnation of the Redmires water is explained on the ground that this neighborhood contains iron pyrites, while the water from Strines and Agden, from containing more alumina, which would neutralize the acid, would give less evidence of the presence of free acid. A further analysis of water taken from sources where the water had passed through new and old lead pipes showed the former contained a much larger amount of lead than the latter, the former containing from 0.14 to 0.61 grain per gallon, whereas the latter contained from 0.14 to 0.42 grain per gallon. Again, long pipes led with alcohol, ether, glycerine, but the best way to to greater pollution of the water than short ones, and the length of time the water had stood in the a somewhat disagreeable odor, but its taste may be pipes was also directly related to the amount of lead contained. The report ends with a statement of the almonds. Dr. Dujardin-Beaumetz's observations have results of filtration: carbon and spongy iron filters been fully confirmed both by Dr. Constantine Paul removing all traces of lead.—Lancet, March 13, 1886.

LEAD-POISONING BY HOUSEHOLD UTENSILS.—The German Parliament has now under consideration a LEAD POISONING.-DR. SINCLAIR WHITE, the Bill which is intended to regulate the employment of lead in the manufacture of cooking and other domestic utensils, and so to diminish the risk of poisoning by that metal. The provisions of this measure certainly do not err on the side of leniency. They formunity. A number of cases of chronic lead poisoning bid the use of vessels containing more than to per occurred during last year amongst persons not en- cent. of lead in their composition for the above purgaged in any of the trades in which lead is used, poses. No alloy with over 1 per cent. may be used analysis showing that the drinking-water in every case in coating iron articles used in cookery. Solder may contained a sufficient amount of lead to account for consist of lead to one-tenth of its amount, but no the poisoning. An examination of the water-supply more. Enamels into which lead enters are treated led to the fact becoming known that the water of with equal stringency. The effect of this Bill, if it only some parts of the town contained lead to any be passed, will be to obliterate the legal existence of appreciable extent. Sheffield derives its water from pewter and of soft solder as at present made, since two distinct sources, with separate systems of distri-these alloys contain from one-half to one-fourth of bution; the first is from the hills around Redmires, their weight of lead. One fact which it brings into

prominence is that lead-poisoning in Germany appears With the exception of three, all were opacities which to arise from other causes besides those to which it is had existed in a stationary condition for more than commonly attributed in this country. Cases of this three years, and in all except one (in which the whole kind among ourselves are usually found in the persons cornea presented a greyish opacity) there was a very of those who are actually engaged in handling lead great improvement in vision, sometimes without any orits compounds in their daily occupation. Plumbers, obvious clearing of the cornea. An improvement painters, glass-blowers, glaziers, potters and enamel
from  $\frac{2^0}{2^0}$  to  $\frac{2^0}{5^0}$  in three months would, perhaps, card makers furnish the majority of those who suffer about represent the average result of the cases, but from plumbism. When this disorder appears in the in some it was much better. Those who know how household, new paint in the walls or the lead work of very intractable these cases are under ordinary treatthe water service affords a clue to its detection. It ment, will welcome any method which offers a reais comparatively rare to find in these days that pewter sonable prospect of ameliorating their condition; and pots or cooking utensils are at fault. This may be should these results be borne out by wider experience, because glass is used on the whole far more frequently a very valuable addition will have been made to the than pewter in the liquor trade; while in the kitchen resources of ophthalmic surgery.—British Medical those vessels the contents of which are most likely Journal, February 20, 1886. to become contaminated with lead in the soldersuch, for example, as preserving pans—are usually SALICYLATE OF LITHIUM IN RHEUMATISM.—VULmade of brass or copper (which is kept well burn- PIAN read before the Paris Academy of Medicine reished), and present a relatively trifling soldered sur-face, or are lined with porcelain. The water used in of salicylate of lythium over the salicylate of sodium. cooking also acts as a protective, since the lime salts. We abstract without comment some of the principal contained in it tend to prevent the solution of lead. points of his paper, as found in the Deutsche Medizi-The proposed German legislation on this subject is nal Zeitung of January 14, 1886: very perfect in theory so far as it goes. Possibly it In spite of the acknowledged specific influence In this country it would probably be found to be needlessly severe, and would not cover the chief causes of the evil which it is intended to meet. We do not see how it can do this even in Germany, unless measures of equal rigor be adopted to control less measures of equal rigor be adopted to control the measures of equal rigor be adopted to control the measures of lead in expense the second and the solicity of the second and the solicity of the second and the solicity of the second and the second articular, the solicity of the second and the second articular, the solicity of the second articular and the second articular, the solicity of the second articular and the second articular a ruary 13, 1886.

THE TREATMENT OF OLD CORNEAL OPACITIES. used, and iodoform is applied as a dressing; eocaine March 15, 1886. produces sufficient anæsthesia. Atropine and warm fomentations are used if the reaction be very great; by the fifth to the eighth day the epithelium has generally been reproduced, and the "massage" is then a certain number of nervous troubles which consticommenced. A minute piece of Pagenstecher's tute the greater part of its symptomatology. ointment is introduced, and the upper lid is then

may be called for by the teaching of experience, which salicylate of sodium exercises over the rheuthe use of lead in manufactures and in its other do-these forms the salicylate of lithium has, in the hands mestic applications. The introduction of these fur- of Vulpian, given fair results, and proven by all ther restrictions might fitly exercise the judgment of means superior to the salicylate of sodium. Wherever our own as well as foreign legislators.—Lancet, Feb- the fibrous tissues are first and prominently affected, the lithium salt appears to act better. In some chronic eases, in which the sodium salt had been exhibited for a long time without the slightest effect, In the last number of Archiv für Ophthalmologie, salicylate of lithium gave relief in ten to fourteen Dr. Dantziger advocates the treatment of old opacities of the cornea by friction performed daily, and turbance. Improvement was also obtained in some continued for two or three months if necessary. very advanced cases marked by semi-anchylosis and When the opacity is of moderate size, but of consid-deformities. The salt is easily soluble in water, has erable density, it is recommended that it should first an agreeable taste, and may be given in doses of 7 be scraped away, and the friction, or "massage," grains. The daily ingestion ought not to exceed a commenced as soon as the epithelium has been redrachm. The drug is, however, by no means free formed. The scraping is performed with a Graefe's from unpleasant after effects, though patients who knife, used in the manner in which one scrapes away were treated by both the sodium and the litheum salt a blot with a penknife. Antiseptic precautions are gave the latter the preference.—Therapeutic Gazette,

NERVOUS TROUBLES IN SLOW MERCURIAL INTOX-

2. These nervous troubles can be attributed, in moved from side to side over the cornea with the fore- part, to the presence of mercury in the nervous cenfinger, with a rapid to and fro movement, for about tres, where it has frequently been found, and in part half a minute. Some hyperaemia is produced, which to lesions of the cerebro-spinal system, which have should not last more than a few minutes; if it last as been described by Wising. One of the most curious long as half an hour, the treatment must be used characteristics of these lesions is the persistence of cautiously, and may have it to be abandoned. The the axis cylinder in the altered regions. This last author gives a detailed account of ten eases, in four condition is found in the lesions of sclerosis in of which the friction was preceded by scraping, plaques, which, moreover, in its clinical features

shows some analogies with cerebro-spinal hydrar-

3. The nervous troubles of hydrargyrosis are:

a. Disturbances of motion: trembling analogous to that of sclerosis in plaques; convulsive phenomena of various kinds (cramps, epileptiform attacks, etc.), choreic movements, apoplectiform ictus, par-

b. Disturbances of sensibility: anæsthesia presenting the features of anæsthesia of cerebral origin;

the arthralgias and cephalalgias.

c. Disturbances of a psychical nature which are at first excessively emotional: disturbances of sleep, vertigo, and, toward the last, dementia very much resembling senile dementia.

4. In general, these nervous orders persist for a very long time; they may be greatly benefited, but only rarely can an absolute cure be obtained .-PHILLIPE MARÉCHAL, Thèse de Paris, 1885.—Jour. Cutaneous and Venereal Diseases, March, 1886.

A SPECIFIC FOR THE TREATMENT OF HERNIA .-Dr. Doroteo de Armas publishes an article in the Union Médicale de Caraccas (Bull. Gén. de Thér., No. 28, 1885), in which he claims that the peasants of Venezuela produce a radical cure of hernia by means of a parasitic plant which grows on the Bowdichia virgiloides. The boughs of this parasitic plant are stripped of their leaves, and then scraped with a sharp instrument so as to remove all the inactive portions of the bark; the remainder is then DER HEYDEN, on the assumption that infection of chopped up and mixed with water to form a semisolid paste. After the lapse of some time an extractive matter separates, which is at first greenish, but then becomes almost black. It is elastic, semisolid, and capable of being drawn out in long filaments, which stick to the hands, and gradually harden when exposed to the air. The mode of employment is to spread a thick layer of this substance on a piece of linen, and, after having well shaved the skin, to apply it over the hernial tumor, where it is maintained from forty days to two months. Dr. Armas refers to two cases of cure with which he is himself personally acquainted. He believes that this mode of action is on the one side attributable to its contraction, and so renders it analogous in its application to a truss; and he believes, on the other hand, that it exerts the algid period was very pronounced, it was of no special influence over the hernial rings.—Therapeutic avail. In three cases of leprosy there was marked special influence over the hernial rings .- Therapeutic Gazette, March 15, 1886.

BENZOATE OF COCAINE—DR. A. BIGNON considers the benzoate superior to all other salts of cocaine as feetus was taken from a cow, the subject of advanced a local anæsthetic. Benzoic acid is the natural syntuberculosis, by Dr. Johne. The placenta and uterus ergist of cocaine, since it is one of the products of were free from tuberculous lesions, but in the lower its decomposition, but, when combined with it, in- lobe of the right lung a nodule the size of a pea was creases its stability. Moreover, its antiseptic property detected containing four caseous centres. The bronis an advantage, and the benzoate in solution has a chial glands were congested and also tuberculous. decided odor of the coca leaf. Mention is made of The liver contained numerous gray granulations. epithelioma of the tongue, who could neither eat, Microscopically the tubercular structure was contalk, nor sleep without using cocaine. The muriate firmed; masses of epithelioid cells with giant corpusonly enabled him to sleep for an hour at a time, but cles containing tubercular bacilli were discovered. the benzoate secured four hours of continuous sleep. Lancet, March 6, 1886.

The experiment was repeated many times and invariably with the same result. He states that, whereas an application of the neutral hydrochlorate caused a painful sensation before anæsthesia was established, nothing of the sort occurred when the benzoate was used. The benzoate may be prepared extemporaneously in solution by using one part of benzoic acid alvses presenting the features of paralysis of cerebral to three parts of cocaine.—New York Medical Journal Journal March 13, 1886.

MURIATE OF THEBAINE IN SOME AFFECTIONS OF painful phenomena of which the most constant are THE OPTIC NERVE.—I)R. Boxo says that thebaine is an excellent myotic, similar to eserine, but producing less spasm and myosis. One drop of a 1-40 solution produces its effect in half an hour, the effect passing off in four or five hours. He believes that thebaine will prove very useful in the following cases:

1. In alcoholic and nicotinic amblyopia.

2. In detachments of the retina.

3. In incipient progressive general paralysis, with limitation of the visual field and atrophy of the optic

4. In the anæmics and convalescents of grave diseases (typhoid, diabetes, malaria, etc.) with visual troubles.

5. In descending atrophy of the optic nerve.

6. In neuro-retinal affections of syphilitics, use being made at the same time of mercurial frictions. with iodide of potassium internally .- Nouveaux Remèdes, March 1, 1886.

INTRA-VENOUS INJECTIONS OF IODINE.—DR. VAN deep closed tissues is due to bacteria, and that these organisms are especially sensitive to the action of iodine, has used the following mixture as an intravenous injection in certain cases:

Iodine Iodide of sodium Distilled water	2	parts.
M		

The amount for one injection is 10 grammes.

The first injection was made in a case of typhoid fever, in which the temperature was very high. It fell immediately, and did not go up again. In two cases of cholera, at the beginning, the injection produced a favorable effect. In another case, in which amelioration.—Nouveaux Remèdes, March 1, 1886.

CONGENITAL TUBERCULOSIS.—An eight months'

#### THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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# SATURDAY, APRIL 3, 1886.

#### TUESDAY, MAY 4, 1886.

We have seen in several of our exchanges references to the next meeting of the American Medical Association as to take place on the second Tuesday in May, which may deceive some in regard to that meeting. We think the error in date originated in an editorial in the Courier-Journal, of St. Louis, several weeks since. The meeting at St. Louis will commence on the first Tuesday, May 4, 1886, as stated in the official notice of the Permanent Secretary. Any of our exchanges which have made the error will confer a favor by making the correction as soon as possible.

#### CHICAGO AS A CENTRE OF MEDICAL EDUCATION.

Thirty-seven years since, when the writer of this paragraph became a resident of Chicago, there was but one medical college in it, called the Rush Medical College, in honor of Dr. Benjamin Rush, of Revolutionary fame. Its annual lecture term was sixteen weeks, and its class of medical students numbered about 120. At its recent annual Commencement exercises the same college conferred the degree of Doctor of Medicine on 165 students, and pital Medical College, and the College of Physicians he said: "The living being, filled with microzymes, mencements of these institutions the Chicago Medical death and total destruction. And that this diversity

College reports 120 matriculants and 30 graduates; the Woman's Hospital Medical College 60 matriculants and 17 graduates, and the College of Physicians and Surgeons 165 matriculants and 71 graduates, making a total of 755 matriculants and 202 graduates.

Instead of the original annual term of sixteen weeks, at the present time the regular annual term of instruction is five months in all except the Chicago Medical College and the Woman's College, which require full six months of thoroughly graded instruction each year. Thirty-seven years since there was no organized hospital open for clinical instruction in Chicago, but during the past year the students of the several schools named have had access for systematic clinical instruction to no less than five important public hospitals for the sick, and to not less than three well patronized free dispensaries. The attainment of a fair general education is required of each student before he is admitted to the medical colleges; and during the last eight or ten years the Chicago Medical College has required systematic practical work in the laboratories of chemistry, histology, and pathology as a part of the curriculum for graduation. During the past college term the accommodations in the laboratories of histology and pathology have been sufficient for classes of thirty or more at the microscopes, under the direction of the professors or their demonstrators. At the recent public Commencement of Rush Medical College it was announced that arrangements had been completed for requiring in future of her classes the same practical work in the departments of histology and pathology.

If Chicago does not at this day rank with the first three cities of America in respect to population and commerce, the foregoing facts and figures show that she certainly does as a centre of medical education and scientific progress.

#### PTOMAINES, LEUCOMAINES AND MICROBES-PUERPERAL SEPTICÆMIA.

At the meeting of the Académié de Médecine, on February 23, a note was read from Mr. Béchamp, of Lille, in which he takes MM. Gautier and Peter to task on two or three points in regard to their recent papers on "Ptomaines and Leucomaines." The readits whole class of matriculants was reported to be ing of the communication was followed by an inter-410. Beside this college there have been added three esting discussion on the part of MM. Charpentier, other regular colleges, viz.: The Chicago Medical Peter, and Verneuil. M. Béchamp's first point is as College, which is the Medical Department of the to a question of priority. So long ago as May, 1871, Northwestern University, the Chicago Woman's Hos- he delivered a lecture before the Academy in which and Surgeons. At the recent annual public Com- bears in itself the essential elements of life, disease, in the results does not astonish us, the results are the we can never know absolutely the exact source of same. Our cells are constantly destroying themselves infection. It may be suspected with more or less by a process of fermentations entirely analogous to probability, but can never be demonstrated except those which follow death. One may truly say that by the experimental method. When there is a queswe putrefy unceasingly." This language in the light tion of infection, whatever this infection may be, of further knowledge, and in conformity with the microbial theories, he now retracts. "We neither putrefy nor ferment. We are nourished, and what is called fermentation, and putrefaction, is only nutrition in the cellular beings and vibrios."

In the discussion on this subject M. Charpentier called attention to the fact that M. Trèlat had asked the opinion of obstetricians on certain facts concerning puerperal septicæmia, related by M. Le Fort, and interpreted by M. Peter in the sense of auto-infection, or auto-typhysation, to use the favorite expression of the advocate of spontaneous generation. Charpentier confined his remarks strictly to a general consideration of puerperal septicæmia, and to certain facts advanced by his colleagues. First, he said, we must consider one fact as absolutely incontrovertible to-day: "Puerperal septicæmia is the manfestation, under multiple forms, of an infection, of an intoxication of the lying-in woman. It is always accompanied by the presence of microbes in the tissues of the woman so affected. This puerperal septicæmia is essentially transmissible, and we may to-day, thanks to antiseptic precautions, not only avoid this transmissibility, but even suppress the disease itself, so to speak. The statistics of Maternities prove this. From 10 to 15 per cent, the mortality has fallen to 1 per cent. in hospitals. It would be nothing, I venture to say, if all the antiseptic precautions were today and henceforth rigorously carried out."

But if all obstetricians be in accord, French and all others, in recognizing that puerperal septicæmia is the result of an infection, it is easily seen that a series of questions are naturally suggested. 1. Can

there are always two elements to be considered: the infecting agent, and the soil upon which it is deposited. The soil varies as the woman is in the pregnant or the lying-in state. The pregnant woman offers no soil for the microbe, but in the lying-in woman the conditions are extremely favorable. When a woman, says Charpentier, is delivered without antiseptic pre caution, and contracts a puerperal or septic affection, we can never affirm what is the source of the poison.

Sometimes isolated cases of puerperal septicæmia are seen, which seem to be developed in spite of all precautions. These are often cited as sporadic cases, without direct contagion by the genital organs being shown. Are these cases infected by the uterine wound in spite of everything? Are they examples of auto-infection? These, says Charpentier, are insoluble hypotheses. One fact, however, is certain: septicæmia is of microbial origin. Would M. Peter, who denies the influence of the microbe, neglect antiseptic precautions in the lying-in chamber? He attaches great importance to soil, seemingly forgetful that the most enthusiastic microbiologists give it almost the same, if not as great importance. M. Béchamp announces that he will soon make known the true theory of nutrition, and expose the physiological and chemical errors in the expression "vivre anaérobiquement on putrefactivement" of Gautier; errors as prejudicial to science as to medicine. Our readers may therefore look for a continuation of this discussion and subject in an early issue of THE JOURNAL.

#### SCHOOLS FOR CRIMINALS.

A late issue of the Philadelphia Record, which, it a lying in woman produce puerperal septicæmia in will be remembered, is the newspaper which exposed herself? Can she spontaneously create this morbid the notorious "Dr. Buchanan," contained some startagent, whatever it be, which poisons her? Can she, ling disclosures of gross mismanagement and brutality in a word, produce auto-infection, or, on the con- in the management of the schools or asylums for trary, is this septic agent always transmitted, or caused soldiers' or phans in the State of Pennsylvania. These by hetero-infection? 2. Admitting that puerperal reports have been confirmed by an investigation consepticemia is always the result of an infectious agent, ducted by the committee of the Grand Army of what is the nature of this agent? What is to be un- the Republic, and by the Governor of Pennsylvania derstood by spontaneity in disease? Charpentier in person. There are at present eighteen such instidoes not think it admissible to hold, with Peter and tutions in Pennsylvania, the number of orphans in Béchamp, to the spontaneous development of bacte- them being about 2000, ranging in age from four to ria, bacteria being only the evolution of microzymes. sixteen years. While the State has no property in-This theory has been completely refuted, within the interest in the schools, it pays annually \$150 for each past two months, by Cornil. Spontaneity is only child ordered into them. It is evident from the reapparent. From an exclusively clinical point of view port of the committee that those who managed the

schools did so with an eye only to the possible profits to be derived.

At scarcely any of the eighteen schools and homes was there a satisfactory condition of affairs, while the management of those at Mount Joy and Mercer is disgraceful. The disgusting details of the interior arrangements of the "schools" at Mount Joy, visited by Governor Patterson on March 8, show that the "school syndicate" have made a good speculation in the orphan-farming business, while the orphans have fared similarly to the children in charge of Mr. Squeers. About 250 boys and girls are incarcerated in the place at Mount Joy. The domitories were found to be cramped, foul and almost air-tight. The bed-linen was washed by the orphans, when washed at all. The fested with vermin. The managers, evidently familiar with Oliver Twist, "abated not one rag in Dodger's coat." In the so-called lavatory the bath-tub was an old pickle-barrel. Those of the large boys who cared to perform ablutions with such uninviting accessories crowded into the "bath-tub" two or three at a time, to the exclusion of the smaller boys.

The medical department of this establishment was presided over by the "school greaser." Cutaneous diseases and sore eyes were common, and twenty or more of the boys were constantly under the care of the juvenile medical officer, an over-grown lad, who, with a brush, "painted his patients with three kinds of salve—one for sore heads, a second for body sores, and a third for what he called 'the each.'" The supply of clean towels was limited to one a day for forty boys, and the girls were no better supplied. The orphans did most of their own washing, ironing and baking. The "play-room," for use on cold and rainy days, was "a foul dungeon of a boiler-room, with mouldy walls and damp, dirty floors, where the light of day never penetrated." We have been unable to learn anything as to the death-rate in this monstrously mismanaged institution, and it is entirely probable that any such information would be grudgingly furnished, if at all, by the managers. Nor are there any facts before us which show what becomes of these children when they are old enough to be emancipated from these schools for criminals-for such they must be. We do not know what subjects are taught in these schools, but a list of what is not taught might be easily given. Uncleanliness of body is inconsistent with bodily health or moral cleanliness. It would be no matter for surprise should the majority of these children become criminals; but it is to be

# SOCIETY PROCEEDINGS.

#### CHICAGO GYNÆCOLOGICAL SOCIETY.

LXIII Meeting, Friday Evening, Feb. 19, 1886. THE PRESIDENT, DANIEL T. NELSON, M.D., IN THE CHAIR.

W. W. JAGGARD, M.D., EDITOR.

Dr. A. Reeves Jackson, opened the adjourned discussion of the treatment of pelvic abscess by reading a paper entitled

LAPAROTOMY FOR PELVIC ABSCESS.

Owing to Dr. Jackson's absence, the paper was read by the Secretary.

At the December meeting of this Society, a disclothing of the children was filthy, ragged, and in- cussion arose upon the subject of pelvic abscess and its treatment. It was based upon the report of a case by Dr. H. T. Byford, which had been treated by favoring discharge of the pus by way of the rectum, and the placing within the abscess-cavity a portion of sulphate of copper to promote granulation. The discussion seemed unfinished, and was withal of so interesting a character, that I have thought well to reopen it by the relation of the following case. Whether the operation performed in the treatment of the case should be termed a laparotomy will depend upon what signficance we attach to the term. Upon this point opinions will doubtless differ.

> If we understand by the world laparotomy, the opening of the abdominal cavity in its largest sense, the term is here correctly used; but if, on the other hand, we mean the opening of the abdomen for the relief of an encysted intraperitoneal abscess non-adherent to the abdominal wall, the term would not be properly applicable, for here there was complete adhesion, and, possibly, in the course of time the abscess might have pointed and opened in that direction, although I do not believe that such result would have occurred. Without active interference I think the disease would have resulted in death from pyæmia in a very few days.

On March 9, 1885, I visited Anna N., in consultation with Dr. Louis Braun, of this city. She was 24 years old, had been married six years, and had one child 18 months old. On February 1-five and a half weeks prior to my visit—she had miscarried, producing a fœtus four months old. A few days after that event, Dr. Braun found the patient suffering from symptoms of pelvic inflammation, which had since continued, with varying severity. He informed me that the pelvic swelling, which he detected on examination, appeared to involve all the perinterine structures, but to a greater extent on the right side; that during the past few days, however, it had seemed greater on the left side. From the onset of the attack the pulse had been rapid, and the temperature elevated-the former ranging from 110 to 130, and the latter being persistently over 102° F., reaching on one occasion, 104° F. Pain had been severe, but controllable by morphia. The appetite had failed utterly hoped that every effort will be made to correct the and the stomach finally rejected all food. At the present abuses and repair the damage already done. time of my visit, the patient was pale, extremely emaciated, and her visage showed marks of prolonged the peritoneum, which, however, could not be separsuffering.

of the case, gave me the belief that pus was present. Accordingly, I thrust a curved trocar and canula into fairly without an opiate. the swelling by way of the vagina to the depth of about two inches, with no other result than the emis- and lime-water with relish; her pulse was 108, and sion of a few drops of blood. It was then concluded temperature 100 1-5° F. In brief, the relief of the that the patient should have prolonged hot water symptoms was immediate, and the recovery unintervaginal douches daily, rectal feeding, and appropriate rupted. Pus continued to discharge for more than anodyne and tonic medicines.

again, with Dr. Braun, who reported that after my July 20, and has been regular since. I examined the former visit the symptoms had all become gradually patient September 25. The uterus was still in a posiameliorated; the stomach resumed its functions, pain tion of right lateroversion, but movable in a slight subsided, pulse and temperature became normal. degree. The parts about the left broad ligament No menstrual or other discharge had appeared. This were thickened, and somewhat tender. An irregularly improved condition had continued until two days be- shaped mass occupied Douglas's space, and extended fore, when, without apparent cause, the patient had upward and to the left. The patient had gained a chill, followed by rapid pulse, high temperature, greatly in weight, was ruddy, and doing her own pelvic pain and irritability of the bladder.

Under anæsthesia I examined the abdominal and pelvic organs. The pelvic swelling had undergone no pain, and feel better than 1 have for four or five no marked change, except that it seemed to have increased in an upward direction, extending now to a point about an inch above the symphysis pubis. At Lawson Tait: this place I thought I detected obscure fluctuation. The swelling as felt per vaginam was hard at every accessible point. All operative measures were declined by the patient and her friends, and the treat- a cure has resulted. ment advised consisted in the administration of morphia and quinine, and peptonized milk for diet.

April 19, the patient was much worse. The pelvic pain was controlled only by large doses of morphia given hypodermically, and the stomach retained almost nothing. The pulse was 130, temperature 102° formed the following day.

Steele, Braun, Sterl, Dickerson and Mascheck. A arotomy at all, but simply an oncotomy. An abscess spray of carbolized water had been kept playing in was opened, and the operation does not differ matethe room for several hours. The patient was etherized, rially from the opening of a deep-seated abscess in and the bladder emptied by catheter. She was the any other region of the body, c. g., in an extremity. thinnest person I ever saw placed upon an operating As I understand the term laparotomy, and I am not table. Immediately before the taking of ether her aware that it is ever used otherwise, it means that pulse was 124, temperature, 103 F. The hair of the section of the abdominal parietes is followed by an pubis was shaven off, and the skin of the abdomen operation, performed within the peritoneal cavity. washed with soap and carbolized water. An incision If the wall of an abscess situated in an abdominal three inches long, ending below at the upper portion organ has become adherent to the visceral surface of of the mons veneris, was made in the middle line of the abdominal parietes, the peritoneal cavity is of the hypogastrium. Deepening the cut, I came upon necessity obliterated to the extent to which adhesions

ated from the parts beneath. Proceeding inward On examination, I found on the left side of and through dense structures the knife suddenly entered behind the uterus, a swelling as large as a medium- an abscess cavity, which at once gave exit to a stream sized orange, with rather indistinct outlines. Its lower of pus to the amount of two or three ounces. Passportion was in a plane with, or somewhat below, the ing my finger through the opening, I found that the os uteri, and bimanually its upper margin could be cavity extended downward, behind and to the left of felt extending above the fundus, which was pushed the uterus, about three inches. The abscess walls strongly to the right. Both uterus and tumor were proper could not be accurately defined. The inflamimmovable. The latter had a slightly elastic feeling matory processes had matted together the upper part in some places, although I was unable to detect any of the uterus, the left broad ligament, tube and ovary. certain fluctuation through the vagina, rectum or hypo- The cavity was washed out, and a rubber drainage gastrium. Through the posterior vaginal wall, at a tube passed to the lower end, the outer portion of the point about an inch above the lower portion of the tube being stitched to the edge of the wound at its swelling, I fancied I received a sensation of boggi-lower extremity. The remainder of the wound was ness, and this, taken in connection with the history closed with sutures, and dressed in the usual manner.

The night following the operation the patient slept

When I saw her the next day she had taken milk six weeks in constantly diminishing quantity. The On April 18, five weeks later, I saw the patient tube was then removed. Menstruation appeared housework.

In a letter dated December 29, she states, "I have vears."

Dr. Jackson appended the following note from Mr.

7 THE CRESCENT, BIRMINGHAM, Jan. 4, 1886. My Dear Sir: I have performed now thirty-two Yours very truly,

LAWSON TAIT. Dr. Christian Fenger said: Before entering into the discussion of the paper which has been read here this evening, I wish to remark that I came here under the impression that the entire subject of suppurative, pelvic inflammation was to be dealt with; I F. It was decided that laparotomy should be per- now see the subject is limited to the treatment of pelvic abscess by laparotomy. The operation per-April 20. There were present as assistants Drs. formed in Dr. Jackson's case I should not call a lapof the abdomen.

Sänger, whose statements regarding etiology I have ilium, one on Poupart's ligament, and one on the annine of all gynecological affections is of gonorrhæic ligament. character. He further says that fifty per centum of that the gonococci of Neisser can, of themselves, parietes. On the whole, the matter seemed simpler produce abscesses; but destruction of the surface of to me than I had a priori imagined. the mucous membrane is sufficient; an entrance is which are probably always present.

it first passes into the iliac fossa, but thence it does Martin's operation had been successfully performed, not descend into the true pelvis, as Koenig observed. These more or less sporadic operations called the at-

have formed. An incision made over such adhesions but it ascends, running up the anterior abdominal does not open the peritoneal cavity, and consequently wall; (b) from the broad ligament the fluid finds its the operation cannot be spoken of as a laparotomy, way into the iliac fossa and thence upwards towards In the paper which I published on "Laparotomy for the kidney, running in the mesentery of either the Periuterine Abscess," it was distinctly stated that the ascending or descending colon. Schlesinger further only way by which it seemed possible to get at the makes the interesting statement that his pericervical abscess was by opening the peritoneal cavity. It is injections filled the periceivical tissues, but that they also mentioned that omentum and intestines were never produced a tumor which could be felt above found between the walls of the abscess and the walls the symphysis pubis. As far as my experience goes, the results of these experiments correspond well with Concerning the etiology of pelvic abscess, I should the clinical facts. The puerperal abscesses which I like to call attention to the literature of the subject. have opened were situated, two over the crest of the found to be the most complete, says that one out of terior abdominal wall, about three inches above the

As before mentioned, about three years ago I made these are diseases of the uterine appendages; al-similar experiments; the fluid I employed was milk. though, of course, any part of the genital tract may My object, at the time, was to ascertain the exact be primarily invaded. In the Fallopian tubes he relative position of such an artificial exudate, reprefinds that disease most often has its principal focus, senting an abscess, with regard to one of the broad where it begins and whence it spreads. He distinligaments. I wanted to see for myself what difficulguishes six kinds of salpingitis: (1), septic, puerperal ties I must be prepared to encounter in uniting the and non-puerperal; (2). tuberculous; (3), syphilitic; walls of a pelvic abscess, after having opened it, to (4), actinomycotic; (5), gonorrheic; (6), a mixed the edges of the abdominal wound. As might have form. The gonorrheic is the most common form of been expected, I found the difficulties of the operathe disease, and it produces the most severe cases of tion to vary partly with the size of the exudate and pelvic inflammation. It has not as yet been proven partly with the degree of tension of the abdominal

Whether in cases of pelvic inflammations and abthus given to the septic, pus microbes, the staphylo-scesses laparotomy should be done or not, is a quescoccus aureus and albus and the streptococcus pyogenes, tion of comparatively recent date, it being but little older than five years. As I have already said in my The invasion having taken place, we must ask our-selves by what channel does the inflammation travel? always to be regarded as a last resort, and should Where should we expect finally to find an abscess in never be thought of in cases in which the abscess can case one should form? The Fellows will remember with safety be reached in any other way, which, of the beautiful experiments of Bitas, Koenig, Schlesin-course, includes opening it through the rectum. ger: experiments which about three years ago I Lawson Tait, of Birmingham, and Martin, of Berlin, repeated in the dead-house of the Cook County were the first who attempted to prevent the terrible Hospital, although the purpose I had in view at that contingencies of pelvic inflammations by attacking time was a different one. These gentlemen injected, the disease at its original seat; Lawson Tait removed by means of fine canulæ, fluids, such as colored glue, the suppurating uterine appendages, Martin operated into the periuterine tissues of puerperal and non- for suppurating periuterine hæmatocele. Tait operpuerperal bodies. Koenig found (a) that fluids, in- ated for a suppurating hæmatoma of the right Fallopiected in the region around the fundus uteri and pian tube (peritonitis) in 1878, and he removed both uterine portion of the Fallopian tubes, first pass upwards into the iliac fossa to reach the crest of the ilium, then downwards towards Poupart's ligament, three cases of intraperitoneal hæmatoma, i. e., retroand finally into the pelvis minor or true pelvis; uterine hæmatocele. He opened the peritoneal cav-(b) fluids injected into the periuterine tissues, in ity, incised the sac, and evacuated the blood and the neighborhood of the internal os, first fill the pus; he then drained into the vagina, through the extraperitoneal tissue of the pelvis minor, then follow pouch of Douglas, and closed the opening he had the round ligament as far as Poupart's ligament and made into the sac from the peritoneal cavity by sutascend in a backward direction into the iliac fossa; ures. In the discussion following the reading of (c) that when the injection is made near the lower Martin's paper, Kaltenbach opposed Martin's operaportion of the posterior surface of the uterus, the fluid tion, and pleaded for an extraperitoneal operation, first flows into the cul-de-sac of Douglas, and thence reaching the abscess either from above Poupart's rises into the iliac fossa. Schlesinger, although in ligament, or, as Hegar recommended, from the ischiothe main agreeing with Koenig, differs with him in rectal fossa. In 1880, Feldman, of Gottingen, pubthe following two points: He says (a) when fluid is lished an operation for double pyosalpinx. In 1882, injected into the neighborhood of the fundus uteri, Baumgartner published a case of hematocele in which

tention of the profession to the subject, and already opens into the rectum, the case is very much compliduring the following year, 1883, upwards of fifty or cated by septic infection through the fæces. The sixty cases were reported in which laparotomy was quotations given are sufficient for us to conclude resorted to for the cure of pelvic inflammations, that, when there is communication between a peri-Aside from the forty-six cases which Lawson Tait uterine abscess and the rectum, the patient is in great published in his book, "Diseases of the Ovaries," and constant danger of dying from septic infection, he reported seven more. T. Gaillard Thomas reported five cases; Zeiss, Thornton, Baer and Proschow-nick, each one. In 1884, America was represented discussing my paper, Dr. W. H. Byford said that he by fifteen cases; Stone, 1; Lee, 4; Lusk, 1; Martin, was opposed to the line of treatment suggested by of Chicago, 1; Goodell, 2; Jones, 1; Thomas, 1; Dawne, i. e., laparotomy; that the sphineter ani should son, 1; Polk, 3. In England we have thirty-five cases: be dilated or incised, the communication between Tait, 15, 7 of pelvic abscess; McDonald, 2; Lediard, the abscess cavity and rectum should be dilated with 1; Chapman, 1; Savage, 9, 8 of pelvic peritonitis and the finger, a steel dilator or the knife, the cavity of 1 of hematocele; Malin, 7. In Germany, twenty-the abscess scraped, washed out, and drainage effected two cases were reported: Martin, 8 of suppurating per rectum. hæmatocele; Gusserow, 7, in 4 of which the sac was stitched to the abdominal wound; Sänger, 5; Schrö-ture of a retro-uterine abscess per rectum, Dr. Byder, 1; Quetsch, 1.

and that laparotomy has come to occupy a prominent place in the treatment of pelvic inflammations and abscesses. It may be objected that as yet the indications for the operation are not as clearly defined as out of the question. If the opening into the rectum we might wish them to be; in answer to this, we can only say that the operation is new, and that we must is hardly practicable. Such openings are often narconsider the importance of the subject the guaranty

of progress in the right direction.

is modified in cases in which the periuterine abscess dark, for it is difficult or impossible to draw such an communicates with the rectum or some other part of opening well down into view. The gentlemen present the intestines. My remarks will have reference to the who have extirpated a carcinoma of the rectum, will discussion of my paper on "Chronic Periuterine appreciate the difficulties of operating high up in Abscess," the discussion of to night being but a con- the gut. tinuation of that broken off at our recent meeting for want of time. My paper was read before this adopting Dr. Byford's plan of employing in this region Society in May, 1885. I will refer as well to the dis-cussion of Dr. H. T. Byford's paper on "Pelvic abscess. Working here with a knife, we always run Abscess," read here December 18, 1885.

the bowel is sometimes followed by spontaneous re- abscess, situated in a broad ligament. The large covery. As a rule, however, such a condition is ex- uterine vessels may be found anywhere, and if tremely dangerous, for the abscess cavity is constantly wounded, it is next to impossible to ligature them being infected with septic material from the intestine, securely. Péan, in his "Diagnostique et Traitement des Tumeurs de l'Abdomen et du Bassin," T. 11, p. 155, writes that into the rectum near the anus; in these, dilatation a perinterine abscess may open into the cocum, colon may be tried, and it may even effect a cure, as we or rectum; that if a periuterine abscess opens into learn from Dr. H. T. Byford's case. However, we the intestine, bladder or uterus, septic infection will must have heard of more than one case before we not fail to produce its symptoms and may speedily can judge of the value of this method of treatment. prove fatal. This statement may be a little too Being somewhat enthusiastic over his rectal method, broad. Schröder, in his "Krankheiten der Weib- Dr. Byford disposes of laparotomy by saying, "The lichen Geschlechtsorgane," Leipzig, 1880, says that treatment by abdominal section cannot for a moment when the abscess has broken into the gut or bladder be entertained, for at least two reasons," of which or impossible to reach the abscess from the vagina. recto abdominal fistula, which is incapable of being

Aside from the old, now justly abandoned, puncford's method of attacking such an abscess is to me It is evident that the operation rapidly gained ground, entirely new. I have nowhere, in the course of my reading, met with a similar suggestion. If the abscess communicate with the intestine at a point beyond the rectum, a rectal operation is of course lies three inches or more above the anns, dilatation row and tortuous, the neighboring organs are immovable, and even if we divide the sphincter and the I wish to add a few words about the subject as it retrorectal tissues, we are obliged to work in the

But above all, I must earnestly warn you against the risk of opening the peritoneal cavity, and of di-When a communication exists between an abscess viding large vessels which are bound in the wall of and the intestinal tract, evacuation of the pus into the sac, as I once demonstrated in the walls of an

In a relatively small number of cases the abscess we have to deal with a grave condition, as it is difficult, the first one is that it is necessarily followed by a At that time, in 1880, he had not thought of the promptly cured, and is apt to become an unfailing practicability of laparotomy in such cases. When source of systemic infection. Of the numerous exthe abscess has evacuated itself into the rectum, he amples we have, I need but mention the perityphlitic considers it less difficult to get access to it, and he abscesses to show that an intestino-abdominal fistula advises cutting through the posterior *eul-de-sac* of the does not contraindicate the evacuation of the abscess. vagina, and dissecting upwards between the uterus. We operate to save life, whatever may become of the and the rectum. Emmet writes that when an abscess fistula afterwards; besides, these fistule do frequently

In the third case referred to in my paper, it outlet for the pus. When the abscess is drained cannot be reached from below. through a counter-opening in the abdominal wall or necessity for emptying its contents into the bowel no laparotomy when he cannot open through the vagina. longer exists, the opening has become useless, and it of infection. We never hear, for example, of a preceded by a local tuberculosis.

Tait, before the abscess has discharged, and then not been thoroughly tested by the profession. Gynæcological Society.

mean opening the peritoneal cavity.

spontaneous rectal perforation."

quency, and possibly do more harm than good.

In endeavoring to fix the limits of the usefulness closed in two months. The closure of a cocal fistula of laparotomy for pelvic abscess, we must go beyond is a common occurrence. The explanation is not the recorded experience of the laparotomists, for the far to seek. Whenever an abscess breaks into the records are not yet all in. I understand that Tait gut, the condition of the abscess necessitates such an opens the abdominal cavity only in those cases which

Dr. Fenger remarked, parenthetically: He (Tait) the vagina, and thus transformed into a fistula, the does not operate through the rectum. He performs

Dr. Byford, continuing: Then we may say that gradually contracts. A fistula in itself is no source abscesses like the one reported (which point above) should be opened by a simple incision, without enprimary local tuberculosis originating in a fistulous tering the abdominal cavity; and those which point tract. An anal fistula, when tuberculous, is always in the vagina should be opened and treated through the vagina. Now the question is, should those which Dr. Byford, further on, criticises my cases in par- point in the rectum be opened and treated through ticular, remarking that to operate as does Lawson the rectum? What I claim is, that the procedure has treat antiseptically, is an entirely different matter. has already been stated in this Society by Dr. Wm. All I have to say to this is, that the doctor has en- H. Byford, we can, by thoroughly stretching the tirely misunderstood Lawson Tait. A letter I had sphincter of the anus, get into almost any abscess the pleasure of receiving from Mr. Tait one month which is truly pelvic in its nature, and points, or after I had published my cases, begins, "I have opens, in the lower four or five inches of the rectum. just read your extremely interesting articles in the We can dilate the opening, and then enlarge it with Annals of Surgery." I shall now pass the letter the fingers, without the use of any cutting instruannuals of Surgery. I shall now pass the letter the ingers, whollt the use of any culting instru-around to the Fellows of the Society. In his see-ments, against which objection has just been made, ond letter to me, Mr. Tait says: "Concerning The danger of hæmorrhage from the wounding of your operations for pelvic abscess, I quite agree blood-vessels is certainly very much less than the with you. Opening the abdomen is a very much dangers in operating by laparotomy. There must more satisfactory way of dealing with these cases be danger connected with any operation, but in the than any other." Dr. H. T. Byford's further remarks, one I am speaking of it is reduced to the minimum. on my cases I shall pass by in silence, as I do not The entrance of faces is of minor importance, for in think their discussion is in order before the Chicago the presence of perfect drainage and antiseptic irrigations, they do not remain in the cavity, and do not DR. W. W. JAGGARD begged permission to submit prevent it from filling in with granulations from the an extract of a letter from Dr. Paul F. Mundé, received about the 15th of February. Dr. Mundé's fore dilatation per rectum should be first tried; and large experience in the treatment of pelvic abscess if any cases, after trial, cannot be thus successfully was well known to the Fellows of the Society. Dr. treated, laparotomy, or some other substitute, should Mundé writes: "I do not agree with Dr. Byford's be considered. Dr. Fenger quotes, and then critirectal treatment, as a rule, and certainly have not in cises, my arguments against laparotomy, without my quite extensive experience found true laparotomy mentioning that I was only referring to abscesses required to evacuate and drain a pelvic abscess. I that could be reached through the rectum. With regard to recto-abdominal fistula, I must still main-"Neither has my experience been that of Dr. Dud- tain that the abscess will close up and get well more ley, who says that the mortality from abscess open-readily with one opening into the rectum, properly ing into the rectum, is great. I have seen only one made or enlarged, than if such a fistula exist in which case that I thought must die, in which there was a the rectal outlet has not been enlarged. Gases and fæces will almost invariably pass through and keep DR. HENRY T. BYFORD: A few years ago Sir the abdominal end of the fistula open, and will lodge James Y. Simpson invented the operation of division in septic pockets, or sinuses, resulting from the inof the cervix for uterine flexures. Almost all gyne- adequacy of the opening at the rectal end. If we cologists began performing it, and in a short time close such a fistula above, we have the unfavorable had done more harm than good with it. Only a few conditions of the original abscess, and must still years since Dr. T. A. Emmet invented the operation practice dilatation per rectum. Martin's method of of trachelorrhaphy. While justly maintaining that instituting perfect drainage through the vagina, and it is an exceedingly valuable operation in proper then closing the abdominal opening, would undoubtcases, he has recently stated that it may have done edly be sound in principle, were it not that an opermore harm than good. A short time ago, Lawson ation through the vagina should take precedence Tait invented a method of treating pelvic abscess by when practicable; and when not, a single opening laparotomy, and surgeons are resorting to it with a from above must be regarded as fulfilling the requirecertain degree of success. The method is gaining ments, as is proved by the experience of Tait and favor, and bids fair to be employed with disastrous fre- others. Hence Martin's method must eventually be relegated to the exceptional procedures.

I do not wish the Society to understand that I do about the uterus diminished in size, and nearly two unnecessarily and unjustifiably. which others may not.

in pathology and treatment. A point to be remembered is, that many cases recover spontaneously in early stages, contrary to the statements of some eminent men. A professional gynecologist or surgeon, allowed a limited autopsy. The fistula above the whose patients are attracted to him from long dis-pubes, after passing through the integuments, led tances on account of his reputation, gets a class of downward and to the right, and at a point which cases, because of their long standing and obstinate seemed to be the right external inguinal ring it entered character. He has to combat the same tendency to the inguinal canal and followed the round ligament error of judgment in one respect which besets the into the pelvis. Here it became more spacious, but mind of a pathologist, whose conclusions are too ex- exceedingly crooked and complicated, winding irregclusively drawn from the dead-house; that is to say, ularly backward until it opened into the upper part neither of them sees the numerous cases which re-cover under ordinary treatment, and therefore do not glued together in a mass by old inflammatory de-

cians in this city, which recovered from such abscesses contained a little pus and faces. This pocket might after suffering about a year. These abscesses dis-charged through the rectum. I have, perhaps, been outside the posterior surface of the rectum, had it somewhat slow in the treatment of these cases. For been possible to ascertain its existence. I do not example, a retrouterine abscess was brought to me see how it could have been reached by laparotomy. from a distant state. It periodically discharged into The anterior fistula might have been benefited by the rectum above the reach of the finger. The pa-freely slitting up the inguinal canal. I feel compelled tient arrived in Chicago in fair general health. Directly to differ with my friend Dr. Henry T. Byford in one after her arrival, the discharges grew smaller in quan- point. He suggests very naturally that Tait's operatity, with longer intervals of time between, and she tion, performed after the abscess cavity has opened continued to progress in that way. Improving coninto the rectum, would make a complete intestinal stantly in strength and activity, she began to make fistula, which it might be impossible to heal. This excursions and long visits to friends in neighboring thought is natural, and I confess I would think the States, and, in short, enjoyed life so thoroughly that same thing myself, had not an extensive observation led me to postpone the laparotomy to see what would the intestine below. This fact, or law, is very imoccur. The discharges, which were from a point portant, and applies equally to faccal and urinary high up in the rectum, grew less in quantity and fistulæ, as I have verified by an abundant experience. further apart in time. The temperature went down A striking case in point occurs to me at this moment.

not believe in laparotomy for pelvic abscess, but that, months have now elapsed since the last small discharge being popular and new, it is apt to be resorted to of pus. The patient's vigor is slowly returning. The remarkable Under such conditions it is not certain that any pus success of Tait should not be allowed to mislead us. cavity remains. I deem it my duty to wait until the His mastery of technique and fertility of resource in presence of such a collection of pus is reasonably abdominal surgery, justifies him in assuming risks certain before subjecting the patient to the perils of laparotomy. Not long ago I had the opportunity to DR. EDMUND ANDREWS: It seems to me that make a post-mortem examination in a case of circumthe usefulness of the operation in proper cases is uterine abscess. The abscess had formed several reasonably certain, but that we must be careful not years ago, after a difficult parturition. I saw the pato incur the risks of laparotomy when safer methods tient in consultation a few times during the last weeks are available. It will broaden our views somewhat, of life. The pus was discharged, partly by the rectum if we recollect that an abscess in the cellular tissue and partly through a fistula midway between the about the uterus does not differ materially in nature, symphysis pubis and the umbilicus. She had been principles of treatment, nor results, from abscesses subjected twice to some surgical operation, whose in the cellular tissue in other parts of the pelvis and exact nature I did not learn. The operations were abdomen. One set of laws governs them all, both not laparotomies. Having received no benefit, the

come before them. Recoveries from abscesses in the cellular tissue in all parts of the abdomen and pelvis are common, though they are apt to be very slow.

I recall two cases, attended by well-known physicians in this city with property of the sacrum. It I deemed a laparotomy not justifiable so long as she upon facal fistulæ shown me the reverse. Experiprogressed so well towards recovery without it. I ence teaches that an abscess cavity opening into an presume she got tired of my dilatory plan. At any intestine and filled with putrid pus and fæces, is very rate, after some months of improvement she ceased reluctant to heal so long as it is not freely drained and to report herself for periodic examination, and I lost disinfected; but if it is widely opened, so as to make sight of the case. I have a case now on hand in a and maintain the shortest and straightest possible more debilitated condition. She is confined to her route from the opening in the cut to the external air, bed the greater part of the time. I expected to op- and if it be kept well cleansed and disinfected, fresh erate many weeks ago, but soon after I took charge granulations will spring up, the orifice will contract and of the case she showed signs of improvement, which the fistula will heal, provided there is no stricture in to the normal standard and remained there, the tumor An eminent physician on the South Side requested

me to take charge of one of his patients, a lady who called the Brazilian Pasteur, and well deserves the seemed to have an anomalous hernia, and was sink-ing under a suppurative discharge from the bowels. Enne de la Fièvre Jaune," is a monument of honest, On examination I found her confined to bed, and painstaking labor in a very difficult field, extending rapidly approaching fatal exhaustion. There were over a period of several years; it is a work of 630 several evacuations daily of mingled pus and fæces pages, written in the simple, direct style of your true from the rectum. The left hip was found prom-scientist, and accompanied by elaborately executed inent over the whole gluteal region. The tumor plates, illustrating the various steps of the work which fluctuated on palpation, was resonant on percussion, led to the discovery of the "Cryptococus Xanthoand gave a succussion on coughing. At times it genicus," with carefully prepared tables of the hosgurgled under pressure. I opened it very slowly and pital and laboratory experiments, by which he estab-carefully, fearing to find an intestine there. After lished a causal relation between his new found passing through the atrophied gluteus maximus, I en- microbe and the vellow fever. tered a broad cavity containing neither intestine nor omentum, but filled with pus and faces. This cavity his 6000 inoculations of the pure culture, carefully being emptied and washed out, was easily traced up recorded and kept track of, when practicable. So to the sciatic notch, where it entered the pelvis by far, none of them have died of yellow fever, while an orifice of moderate size. I now ripped the cavity more than four hundred persons *not inoculated*, inopen for nearly its whole length and kept it cleansed. habiting the same neighborhood, have succumbed to Vigorous granulations sprang up at once and the sac the disease. These are ugly figures for the anti-mihealed up rapidly and permanently. The patient crobists. As a matter of course, he meets with a seemed relieved of a great depressing influence, and great deal of adverse criticism and opposition among rebounded at once toward health. She became his colleagues in Rio. It is the old story, "A proplump and rosy, and rapidly regained her full strength. phet is not without honor save in his own country.'

OF THE LARYNX.

flask, with a rubber cork, with a small vent through credited to yellow fever is 3.6 per cent., against 16.2 which a tube passes to the bottom of the bottle. per cent. in some of the bad years. To this tube is attached another leading to the bulb of a Davidson's syringe, and this in turn is claims, in his own words, that: "La prophylaxie attached to a small-sized cesophageal tube. In est un fait deja acquis, je ne hésite pas à l'affirmer et using this apparatus the gag is placed between the ne cesserai de le confirmer de plus en plus. Ouant jaws, the tube introduced into the esophagus, and à la théra peutique, les observations suivante nous inthe contents of the bottle quickly introduced by spirent les plus belles et les plus flatteuses espérances." means of the bulb.

take sufficient nourishment after intubation has been method, with the attenuated yellow fever microbe, performed, on account of the coughing produced by by injecting a gramme of the liquid culture into the the trickling of the liquid into the trachea. This region of the deltoid. He also reports three cases apparatus obviates this difficulty.

## FOREIGN CORRESPONDENCE

#### LETTER FROM BRAZIL.

(SPECIAL CORRESPONDENCE.)

Yellow Fever—A Brazilian Pasteur — Treatment and Prophylaxis of Y.llow Fever by Inoculation of the Attenuated "Cryptococus Xanthogenicus" - Beriberi, its Etiology and Genesis-Dr. Moncorvo and the "Polyclinica Geral"—Aneurism of the Subclavian.

The medical world will soon wake up to the fact that scientific research is not confined to the great ravaging the whole coast-line of Brazil lying within European centres, and that a "Koch" or a "Pas- the tropics, and attracts more attention than even teur" is quite as likely to turn up in the new as the yellow fever; its per centage of deaths reaches in old world. Brazil is already putting in her claim for some localities the appalling figure of 74.50 per cent. a share of attention. Dr. Domingos José Freire, the of all attacked, and the total mortality of the coast results of whose studies on yellow fever have been is treble that of yellow fever. The beri-beri, or bar-going the rounds of the medical journals, has been biers of Brazil, differs widely from the disease bear

In a recent pamphlet he gives the net results of Dr. F. E. Waxham presented for examination a People who live beyond the radius of personal preju-FEEDING BOTTLE FOR USE IN CASES OF INTURATION dice, however, recognize the significance of these facts. The comparative death rate from yellow fever for the last three years is: 1883, 1336; 1884, 618; The feeding bottle consists of an ordinary nursing 1885, 374. The part of the total mortality of 1885

In a recent communication from Dr. Freire he Following this are the details of four cases of un-Many patients, especially young infants, do not doubted yellow fever, treated by him, after Pasteur's treated in the same way, in his hospital, by the late Charles Browne-seven cases in all, with seven recoveries! In each case there was a marked amelioration within twenty-four hours. In one case only was a second injection necessary.

> The present season bids fair to afford the learned Professor ample opportunities for pursuing his studies. The intense heat, scarcity of water, and general bad sanitary condition of Rio favor the development of an epidemic. The daily increasing death rate from yellow fever is already beginning to give serious concern. Dr. Freire's report of this season's work in the fever districts will be looked for with unusual interest.

> Beri-beri is now, and has been for a year or two,

ing the same name in India, and described by Moredeal of light upon an important subject.

the Rio Polyclinic, for several valuable monographs what was really diabetes and what was not. on diseases of children. "The Frequency of Dilatation of the Stomach in Children;" "Temperature that sugar was often to be found in the urine of those of the Abdominal in Enteritis of Children;" "Whoop-taking sweets freely, particularly on an empty stoming Cough, and the use of Muriate of Cocaine in its ach, and said that patients in whom there was slight Treatment;" "Resorcin in the Treatment of Whoop- glycosuria, with more or less defective digestion, would

ing Cough," etc. Prof. Saboia, of the Imperial Academy of Medi- ulated diet. cine, recently operated upon an aneurism of the right Prof. Ciniselli. Fourteen elements were used, and after thirty-five minutes the tumor became hard and ceased to pulsate.

alive in Brazil, and likely to be heard from in the H. M. L.

São Paulo, Brazil, Feb. 15, 1886.

#### DOMESTIC CORRESPONDENCE

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Dr. Flint-The Discussion on Glycosuria-Jambol and Matzoon in Diabetes-Cremation not a Necessary Sanitary Measure-The Meeting of the Fifth District Branch-Dr. Charles H. Phelps-Dr. Ezekiel Wade-Curious Hallucination.

At the meeting of the Academy of Medicine held March 18, when the death of ex President Austin his illustrious predecessor in the office. Dr. Stephen individual. Smith was appointed to prepare a memoir of the late Dr. Alfred C. Post.

The subject of the evening's discussion, which was head, Aiken, and others, yet it preserves a significant introduced by the Section on Theory and Practice of number of the leading features to establish its iden. Medicine, was Glycosuria. The first question protity. Of the three types—the paralytic, the cedema-pounded was, The Significance of Small Quantities tous, and the mixed—about 67 per cent. are of the of Sugar in the Urine, and it cannot be said that a paralytic. I saw a great many cases along the coast great deal of light was thrown upon the subject by last July, among them some of the so-called "gal-loping" cases, where the patient succumbs in a few hours. The symptoms are, at first glance, those of difficulty of detecting small amounts of sugar and a myelitis. A great many papers have been written the best methods for accomplishing this. Unfortuon the disease, the most valuable and complete be- nately, both the gentlemen who were expected to ing that of Dr. J. F. de Silva Lima, of Bahia, giv- read papers upon this subject, Dr. E. C. Seguin and ing a full history of the disease from its first appear- Dr. L. Weber, were unable to be present, and the ance in Brazil. Unfortunately, this work was written discussion was entirely an extemporaneous one. Dr. several years ago, and does not embrace the later T. A. McBride said that while sugar was not infreobservations. Dr. J. B. de Lacerda, the author of quently found in the urine in connection with phthisis, the permanganate of potash treatment for snake bite, pleurisy, cardiac disease, cerebral hæmorrhage, certain and who, by the way, is one of the ablest micros of the psychoses, and other grave forms of disease, it copists and most indefatigable investigators in the was recognized at the present day that in moderate Empire, has published two works on beri-beri, and amount sugar might itself be the cause of various claims to have identified it with the "horse-pest" of nervous troubles, such as insomnia, so-called neuras-the island of Marajo, and to have discovered the thenia, paræsthesia, certain pareses and even tempo-"microphyto beriberigeno." Whether Dr. Lacerda rary hemiplegia. The quantity of sugar present in succeeds in making his microphyte stick or not, he the urine in these cases varies from a trace to 21/2 has written a very valuable book and thrown a good per cent; though as large a proportion as the latter figure was rare. On the whole, he felt obliged to The profession is indebted to Dr. Moncorvo, of confess that he was now somewhat at a loss to say

> Dr. George B. Fowler called attention to the fact frequently recover very quickly under a properly reg-

Dr. Wm. H. Draper remarked that he had ceased to subclavian, by electro-puncture, after the manner of attach much importance to the occasional occurrence of very small quantities of sugar in the urine, for the reason explained by Dr. Fowler. He found it very often, particularly in the lithæmic state, in which there It will be seen by the foregoing that medicine is were seen the evidences of suboxidation. When crystalline uric acid and the urates in large amount were present in the urine, sugar was very apt to be found also. All were to be attributed alike; he thought, to defective metabolism, and the treatment which rendered the urine normal in other respects, would also remove the sugar from it. As Dr. McBride had remarked, it was difficult to say where diabetes really commenced. Sugar was not infrequently found in the urine of patients passing not only imperfectly assimilated hydrocarbons, but also nitrogenous food; and therefore sugar was often to be regarded simply as an indication of dyspepsia. He did not think one could distinguish any difference in the cases of nervous disturbance in connection with lithæmia, whether sugar was formed in the urine or not. Bence Jones had long ago remarked that the "sour disease," or gout, was very closely allied to the "sweet disease," Flint was announced, the President, Dr. A. Jacobi, or diabetes mellitus, and had pointed out the importstated that he would claim for himself the privilege ant fact that gout and diabetes very frequently exof pronouncing before the Academy the eulogy on isted in the same families, and even in the same

> The President, Dr. A. Jacobi, said that in a great many persons, at times sugar was found in the urine

the urine indicated defective assimilation. If this oxidation. condition was not appropriately treated, it might result in persistent diabetes and perhaps finally terminate in pulmonary disease. He would say, therefore, that sugar in small quantities did not signify much, as long as a good general state of health was maintained; but it might be the source of great danger when other disease set in.

In the course of the discussion of the second topic, which was the Treatment of Diabetes, Dr. Cauldwell related his experience with the recently discovered so-called specific, jambol. He had prescribed it in four well-marked cases of the disease, in each of H. Hamilton, read a paper on Cremation, in which which the patient was passing more than 100 ounces he took a somewhat different view of the subject from of urine, while in all the specific gravity of the urine what is entertained by many in the profession at the and, in addition to the use of the drug, was kept on for some enthusiasts to ponder over before committoasted bread. Five grains of the powdered jambol ures as have recently been proposed and discussed. weight. In addition, Dr. Cauldwell referred to two for the following reasons: cases which had been under the care of Drs. Keyes and Alexander, in one of which the improvement had present mode of burial, when the inhumation has been very satisfactory; while in the other there was been properly made, has, by the advocates of cremano improvement whatever. In four cases out of six, tion, been greatly over-estimated, if, indeed, it can be therefore, the use of jambol had been followed by said to exist at all. improvement, and in two it had proved a failure.

Dr. Draper remarked that, excluding the dietetic most important means of detecting certain crimes. treatment, it might be truly said that the treatment

in small quantities which could be detected by the of diabetes was as purely empirical as our knowledge ordinary tests. When he was a student he had been of its pathology was speculative. There was no trusttaught that diabetes was a very rare disease, and was worthy evidence that drugs alone, without the more always fatal. It was true, indeed, that the cases in or less complete restriction of saccharine and starchy which the specific gravity ranges from 1040 to 1060 food, were of any service; and while medicinal agents were rare; but cases in which it ranges from 1017 to were undeniably useful as adjuvants, his experience 1035 were very frequent, and they were by no means led him to believe more and more that the dietetic always of a mild character. Still, quite a large num- and hygienic management constituted the essential ber of such patients lived a long time, and some got factor in the successful treatment of this affection. entirely well. A considerable proportion of these The three medicines which had proved of the most cases are in gouty individuals beyond middle life. service in his hands were codeia, sulphide of calcium, When their general heath was good, very little sugar and the alkaline carbonates. His attention had first was to be found in the urine; but when they began been called to Dr. N. C. Husted, who himself recovto fatten up and took little exercise, the quantity ered from diabetes under the use of this drug, which might be sufficient to produce pruritus vulve in the he originally took for the relief of furuncles. It was case of females. When such patients contracted followed with good results in a considerable number other diseases, however, and especially pulmonary of cases, especially in gouty subjects, and he believed affections, they were in the greatest possible danger, that it enabled the diabetic to indulge in a greater and, as a rule, they would not survive an attack of variety of food than he could otherwise do. The pneumonia. Having mentioned the case of four alkaline carbonates he had also proved very valuable; brothers, all of whom were or had been the subjects and, believing, as he did, that both gout and diabetes of diabetes, he remarked that this history showed that are not infrequently due to defective metabolism, he in a large number of cases the presence of sugar in thought that it was a rational treatment to stimulate

Dr. Dadirrian, who has practiced for some time in Constantinople, spoke of the good effects of matzoon, or fermented milk-food, in which the sugar is converted into lactic acid, and which is used largely throughout the East; and Dr. Baruch strongly advocated the efficacy of judicious active and passive exercise in diabetes, the amount of exercise being

regulated by the strength of the patient.

At the last meeting of the New York Society of Medical Jurisprudence and State Medicine, its venerable President, the distinguished surgeon, Dr. Frank was above 1035. All the patients were treated alike, present day, but one which it would perhaps be well anti-diabetic diet, with a moderate allowance of ting themselves to such rash and uncalled for measseed were given three times a day. In the first case the effect was apparently quite remarkable. Within out by a proposition made by a member of the Society two months the patient gained twelve pounds in of Medical Jurisprudence at a preceding meeting to weight, and the sugar disappeared entirely from the ask the Legislature of the State of New York to urine. For a month past it has remained absent, enact a law making compulsory the cremation of In the second case, on the other hand, no effect persons who have died of certain infectious diseases, whatever was produced by the remedy, as far as could and of those who are buried at the public expense, be perceived; but in the third and fourth eases the and it was entitled "Cremation of Human Bodies results were beneficial. In one the daily quantity af Not a Necessary Sanitary Measure." He said that urine passed was reduced to eighty-two ounces, with he could not approve of the proposed legislation, or a specific gravity of 1030, and in the other to fifty of any legislation making it obligatory that the body ounces, with a specific gravity of 1028; while in the of any person who has died of any disease, or under latter case the patient had gained ten pounds in any circumstances whatever, shall be cremated; and

First. The danger to health and life from the

Second. Cremation removes effectually one of the

Third. The general sentiment of the community

in which we live is opposed to cremation; and, in buried in a single day, no accounts have reached us enactments.

and to this he especially devoted his attention. In lated testimony now presented, that any harm should speaking of the comparative innocuousness of the come to the living. emanations from abattoirs, he said: The mortuary mind, been greatly exaggerated.

in by Lallemand, Dessault, Dubois, Dupuytren, Boyer, Gaillard's Medical Journal. Andral, Lawrence, of London, and Warren, of Bosdisease—by the emanations from dissecting-rooms, or that the students ever suffer from breathing the impure air of those places." After referring to the various dissecting-rooms of this city he said: "I am inand of the other rooms attached to the dead-house Osborne ward, which is a new, outlying, one-story sanitary construction, arrangement and police.'

beneath the surface of the earth, he stated that chemistry and experience have alike demonstrated that the wholesome; although after the great battles of mod- Dr. Ezekiel Mulford Wade, who died at his resiern times, where many thousands have been thus dence in the town of Watervliet, New York, in the

view of the facts above stated, it would be unneces- of sickness or of pestilence thereby induced. In the sary, unwise, and unjust to impose cremation by legal case, however, of our civic and rural burial grounds. within which bodies are deposited one by one, at The first of these, he thought, was perhaps the considerable intervals of time and at great depth, it only one at present requiring extended discussion, would seem impossible, in the light of the accumu-

Having remarked that nearly all of the testimony and general sanitary statistics of Chicago will probladduced by the cremationists, if not all of it, was ably not show that it is any more unhealthy to-day drawn from the assumed noxious emanations from than it was before it became the slaughter-house of certain burial grounds in Europe or Asia, and thus the world; nor has it been said that Cincinnati has placed beyond the reach of critical investigation, he suffered in its sanitary reputation by the immense said it was, in fact, a just ground of complaint that growth of its industry in the slaughter and packing of the American advocates of cremation as a hygienic hogs for home and foreign markets. He did not measure do not draw their illustration from examples wish to be misunderstood, however. He did not supplied by our own country. In order that his intend to say that decaying animal matter does not position might be fairly understood, he thought it well give out noxious gases, and when these are present to say that he was defending the mode of burial usuin the atmosphere in certain quantities and under ally practiced in this country, namely, from four to certain circumstances that they do not cause sickness six feet below the surface of the earth, as in itself a and death; but only that, in the light of the observa- complete sanitary measure, and as rendering cremations which he had made in reference to the emanation unnecessary. New Orleans, and all other cities tions from decaying human and other animal bodies, where the dead cannot be buried to a sufficient depth the dangers from these sources have, in the popular beneath the surface, might do well to consider the alternative of cremation; but this admission, he In treating of the immunity from infection of those thought, supplied no argument against inhumation constantly working in dissecting-rooms, he quoted where it can be properly done. Any who would feel the opinion of Duchatelet, after a thorough investi- interested in following out Dr. Hamilton's argument gation of the subject (an opinion that was concurred in full will find the paper in the April number of

A successful special meeting, for scientific purposes, ton), that it was "an error to suppose that the air of of the Fifth District Branch of the New York State a neighborhood is ever contaminated—so as to induce Medical Association, was held at Yonkers, on the Hudson, on March 23. The gathering took place in the Common Council Chamber, which is situated in the ancient Phillipse manor house, one of the oldest and finest colonial buildings in the country, the biformed, I think authoritatively, that, according to centennial of which was celebrated with elaborate some recent experiments, the air of the autopsy rooms, and appropriate ceremonies in October, 1882. The programme of scientific papers, which has been pub-(at Bellevue) contained fewer septic germs than the lished in The JOURNAL, was carried out, and several most favored ward in Bellevue Hospital, namely, the memoirs of deceased Fellows were read. Much interest was shown in the proceedings, and it was debrick pavilion, and which is considered a model of cided to have another special meeting of the Branch in June next. This will be held at Kingston, Ulster In considering to what extent health and life are County, and it is probable that a delightful excursion endangered by emanations from animal bodies buried to the neighboring Catskills will be arranged in connection with it.

The Governor of the State has made a very satisescaping gases, and the fluid or solid organic matters factory appointment in nominating as Health Officer which sometimes find exit with them, rapidly undergo of the Port Dr. Charles H. Phelps, who has already changes by entering into new combinations when acceptably filled a number of medical positions of brought into contact with the earth. This was illus-importance, and is at present one of the attending trated in the familiar experience with the so-called surgeons to Bellevue Hospital, of the Medical Board "earth-closet," and was to the scientist a well-known of which, as well as of the Board of Police Surgeons, fact. If many bodies were deposited at the same he is President. He also has a large practice, and is time in a great vault, or in superficial trenches, it much liked personally. One of the three Quarantine would be easy to understand how the gases and or Commissioners whom Governor Hill nominated at ganic matter might, for a time, penetrate the soil the same time is also a physician, Dr. John H. Dougunchanged, and in a sufficient amount to render the las, who has become widely known all over the counsurrounding atmosphere and the adjacent water un-

measures, he saved nearly all his cases.

P. B. P. do so any longer.

## ASSOCIATION."

To the Editor of the Journal:

nal, of February 1886, which reads as follows:

discussion. Of late years this Association has apto every misrepresentation to injure the Association,
peared to degenerate into a body merely medico-political,
and to make the meeting of the International Medand it is time something should be done to elevate
it to a proper standard and make it what the British
any fair minded man conceive of any course more representative and national. Political intrigue and honorable and the leaders of medical thought? trickery have too long held sway in this Association, Now, in good faith, what was the real offence given

early part of March, was a grandson of Edward tion are covered by a veil too thin to conceal the Wade, a Revolutionary patriot who took part in the venom rankling in the bosoms of disappointed schembattle of Bunker Hill. His father, James Wade, ers and plotters to overthrow, or disgrace, or humil-M.D., was quite a noted physician, his practice exiate the American Medical Association—an Associatending into Albany, Schenectady, and Saratoga tion dear to the great overwhelming mass of the counties; and his reputation is said to have been medical profession, and should be, to every true and established during a notable epidemic of so-called honorable physician in this land and country. It is typho-pneumonia, in which nearly all other physicians written somewhere in the Holy Scriptures, "that a in the region lost almost every patient within twenty- man's (worst) enemies are the men of his own housefour hours after the bleeding then resorted to as a hold." It does seem to me that in this unnecessary routine practice at the beginning of the treatment, and unreasonable antagonism to the Association, and By avoiding bleeding, and by the use of supporting I may say tirade of slander, this saying is literally fulfilled. It is humiliating to our profession to read The other evening a woman apparently about such untrue and venomous statements as are con-45 years of age presented herself at police head-tained in the foregoing quotation; and we are wonderquarters and asked for protection, who was suffer- struck that any medical journal, having any pretentions ing under a somewhat unusual hallucination. She to honorable professional pride and respectability, stated that she was followed by relatives who wanted to administer to her hypodermic injections of morphia, and though she had thus far been able to baffle sociation degenerate into a "body merely medicotheir efforts, she feared that she would not be able to political?" And when did "political intrigue and trickery" commence, which the splenic writer affirms have too long held sway in this Association?

The truth of the matter is that, until the last meet-"THE FUTURE OF THE AMERICAN MEDICAL ing of the Association, we never heard of any such changes, neither a hint of such suspicion. Up to that time the Association was held to be a body of hon-Dear Sir: The Philadelphia Medical News of orable men intent only to work for the good of the February 27, under the above caption, published an profession—to elevate the standard of medicine and article from the Nashville Medical and Jurgical Jour- to maintain the true honor and dignity of medical science. But at the meeting in New Orleans it did "The meeting of the American Medical Associa- come about that a few ambitious schemers, (I will tion at St. Louis, Mo., in May next, will be a most not say political intriguers) made their appearance important one. Surely, every physician who holds (by proxy) desiring to get control of the Association, the honor of his profession dear, should either go him- and to use it in their own preferment and distinction, self, or interest himself in sending such representation to the exclusion of members fully their peers in every tives as are honorable and pure, and free from all essential quality of medical and scientific culture; selfish motives for self-advancement and preferment, and because their schemes were resisted and frusand fully alive to the important issues that will be dis-trated as selfish and sectional, and the Association cussed at this meeting. The topic of the International held true to its honor and representative national Medical Congress will be the absorbing question for character, these discomfited schemers have resorted Medical Association is to the profession in England, despicable on the part of physicians claiming to be

and it is time the profession should see to it, that it by the Association at the meeting in New Orleans? be no longer thus degraded, and be brought back to It did not displace any one of the seven the Comthe place it occupied in its palmiest days. From mittee appointed at its meeting in Washington in year to year the meetings have become less and less 1884. It simply added others, enlarged the Commitimportant in a scientific point of view, and it is time tee to make it more representative of the entire medevery true physician should individually strive to ical profession of the United States, in whose name change its downward course. If some change is not the Association had extended the invitation to the soon effected, the Association will cease to exist, and International Medical Congress, and to this Committhe profession will turn its attention to the separate tee thus enlarged, the power was given to revise special Associations, which are all now in a flourishing condition. We hope, therefore, that all who can, every arrangement for the successful meeting of the will make an effort to attend the coming meeting." Congress in Washington City in 1887. Was there Surely no intelligent physician can read the above "medico-political" trickery in the exercise of this quotation and be at a loss to divine both its origin clear and undoubted right? Was there anything in it and animus. The deep solicitude manifested for the that should have wounded the feelings and given ofwell-being of the Association and the terms of affec- fence to any honest medical worker, unselfishly laborthe good of the whole profession? It strikes me there mental and moral stamina; and that while every was not; that the action taken, was open, frank and fair dealing, and absolutely required to keep the Association true to its representative character and the high and honorable standard of medical ethics, incorporated in its very being-the lex non scripta of every honorable medical man in this and every other

civilized country.

But here is the point of friction, and the origin of this trouble. It is well known that a body of ambitious medical men and specialists in the City of New York, believing themselves to be superior to the American Medical Association, of which they were members, boldly undertook to set aside the Code of Ethics, and proclaimed their right to hold professional consultations with irregular practitioners of medicine of every description. The National Association, as in duty bound after this revolutionary procedure, refused to admit their delegates, and this proper action of the Association was endorsed by every State Medical Society.1 But, these eminent men of New York, posterity as an example to follow and a career to justly honored for their high medical attainments, have assumed to stand at the head of the medical profession and to control and govern medical thought and action, and have used every opportunity and means ever since, to justify their antagonism to the Association. How well they succeeded, at least for a season, is shown in their capture of the Committee of Seven, the appointees and agents of the Association, and so controlling their action as to have themselves placed above the Association; and so adroitly laid their plans as to draw in the Medical News of Philadelphia, which, although professing to love the Code of Ethics and be a friend of the Association, has written and said more to injure and break down both, than all other medical journals combined, not excepting the two leading journals of New York, the open York journals in their abuse of the action of the Asso- minating in his death on Friday, March 12. ciation, when, in fact, they have been outrageously misrepresenting the views of their readers and the National Medical College he had commenced a medical sentiment of the country, much to their course which was destined, in the near future, to injury and the mortification of their friends.

ing for the advancement of true medical science and ture, of broad conceptions and conservatism, and of manly and honorable effort shall be honestly made to pacify and harmonize all of our dissensions, the honor and dignity, the authority and the National and representative character of the American Medical Association will be triumphantly sustained.

RICHARD H. DAY, Ex-President Louisiana State Med. Soc. Baton Rouge, La., March 7, 1886.

#### NECROLOGY.

#### ALEXANDER Y. P. GARNETT, JR., M.D.

The record left behind us when death comes is the heritage of our friends, and in part the legacy which belongs to society. Hence it is meet and proper that the good deeds, exemplary conduct and noble character of those who die should be transmitted to emulate. Recognizing this truth, we are unwilling that the untimely death of Dr. Alexander Yelverton Peyton Garnett, Jr., which occurred on the 12th of March, 1886, in Washington, should receive only the brief mention of that event.

Dr. Garnett was born in Washington, on September 18, 1855, received his academic education at the institution of Mr. Charles B. Young, subsequently graduating in the old William and Mary College, of Virginia. He was always of delicate physique, and when but 17 years of age he was sent to Southern California, where he spent one year, returning home in apparent robust health. After being graduated at William and Mary, he commenced the study of medicine with his father, in Washington, and matriculated in the National Medical College, in Georgetown, D. enemies of the Code of Ethics and the Association. C., from which he was graduated two years after-The Medical News, not content with sowing the seeds wards. He then entered the Medical Department of discord and strife among the physicians at home, of the University of New York, from which he gradhas sedulously used its influence in foreign countries, uated in the following year, and obtained a position there disseminating misrepresentations of our di- in the Charity Hospital of New York. Returning visions, to prejudice the medical mind of all Europe home in 1885, he associated himself in the practice against the Association, and thereby prevent a suc- of his profession with his father. During the short eessful meeting of the International Congress, unless period his health permitted him to engage in praethese ambitious schemers of New York and their allies tice, he acquired a phenomenal popularity—courcan dominate the entire medical profession of this teous, tender, careful, and patient in dealing with his country, and use the Association to further their own patients, he never failed to secure their confidence personal preferment. The bitterness of the Medical and esteem. In August he was taken with a severe News is further evinced in its eager hunt after and attack of rheumatic fever, which at once developed republishing of every disparaging paragraph and sen- a severe rheumatic carditis, involving the valves and tence that has appeared in the medical journals of resulting in dilatation. From that date his disease the country whose editors have hoped to gain noto-seemed to steadily progress, the distressing and fatal riety and greatness by aping the News and the New consequences following in rapid succession and ter-

In the capacity of Assistant Demonstrator to the place him in the highest and most responsible posi-We cordially and heartily appeal to the profession, tions. In all the relations of life, from his boyhood and beg that they will send as delegates to the Asso- to the day of his death, he was universally admired ciation, in May, their very best men; men of cul- and beloved. The multitude of letters of sympathy and condolence received by his family from all parts

<sup>1</sup> Except the New York State Medical Society

of the country attest the wonderful power he possessed to make friends, and the wide-spread sympathy and respect shown by those who attended his funeral manifested the hold he had already taken upon the admiration and regard of his fellow-citizens in which he was held by his fellow-associates in the Colleges and Hospital of New York, he received day at 11 A.M. during his illness testimonials in flowers, and the most the Johns Hopkins University, thus speaks of him tell you my deep sympathy in your great affliction, ment which I had acquired for your son. I became of the United States. well acquainted with him during the time he worked manly character, his enthusiasm, and the marked fessional career."

cal and Gynæcological Society, held on Friday, March 12. 1886, the following preamble and resolu- of the Association. tions were unanimously adopted:

of Dr. A. Y. P. Garnett, Jr., who died at his residence in this city after a long and painful illness;

therefore be it

Resolved, That in the death of Dr. Garnett, Ir., this Society has sustained the loss of a member who special resolution, requested to send to him, annually, formly courteous and genial manners, and for his Societies. professional zeal and acquirements.

Resolved, That we most deeply sympathize with his sorrow-stricken family, and offer them this expression of our sincere condolence in their great bereavement. SAMUEL S. ADAMS,

A. F. A. KING, Pres't. Cor. Sec y.

At a meeting of the Medical Society of the District of Columbia, the following resolutions were adopted:

Inasmuch as it has pleased Almighty God to visit us again with affliction by removing from our midst Dr. A. Y. P. Garnett, Jr., who departed this life on the morning of March 12th, therefore

Resolved, That we hereby put upon record our profound sorrow at his untimely death, upon the very threshold of a professional career which gave promise

of exceptional brilliancy and usefulness.

Resolved, That, as Fellows of the Society, we shall ever cherish an affectionate remembrance of his genial, kindly nature, and lofty, self denying character.

Resolved, That we tender to his stricken family our heart-felt sympathy and condolence in this their great bereavement, and that we attend his funeral in

Resolved, That these resolutions be spread upon our records, published in the daily newspapers, and a copy thereof be transmitted to the family of the THOMAS C. SMITH, M.D., deceased.

#### ASSOCIATION ITEMS.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in in Washington. As an evidence of the high regard St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tues-

The delegates shall receive their appointment affectionate letters. Professor William H. Welch, of from permanently organized State Medical Societies and such County and District Medical Societies as in a letter of condolence to his parents: "I wish to are recognized by representation in their respective State Societies, and from the Medical Department of and to express to you the sincere esteem and attach- the Army and Navy, and the Marine Hospital Service

Each State, County, and District Medical Society in my laboratory in New York. His amiable and entitled to representation shall have the privilege of sending to the Association one delegate for every ten ability which he showed in his studies with me led of its regular resident members, and one for every me to anticipate for him a useful and successful pro- additional fraction of more than half that number: Provided, however, that the number of delegates for any particular State, territory, county, city or town At a special meeting of the Washington Obstetri- shall not exceed the ratio of one in ten of the resident physicians who may have signed the Code of Ethics

Secretaries of Medical Societies, as above desig-WHEREAS, This Society has learned of the death nated, are earnestly requested to forward, at once,

lists of their delegates.

Also, that the Permanent Secretary may be enabled to erase from the roll the names of those who have forfeited their membership, the Secretaries are, by was distinguished for his exemplary conduct, his uni- a corrected list of the membership of their respective

#### SECTIONS.

"The Chairman of the several Sections shall prepare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their respective Sections. . . ."—By-Laws, Article 11, Sec. 4.

Practice of Medicine, Materia, Medica and Physiology.-Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .-Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas. Secretary.

Surgery and Anatomy.-Dr. Nicholas Senn, Milwaukee, Wis., Chairman; Dr. H. H. Mudd, St. Louis,

Mo., Secretary.

State Medicine.-Dr. John H. Rauch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas,

Ophthalmology, Otology, Laryngology. - Dr. Eugene Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton, St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nashville, Tenn., Chairman; Dr. W. B. Lawrence, Batesville, Ark., Secretary.

Oral and Dental Surgery .- Dr. John S. Marshall, Chicago Ill., Chairman; Dr. A. E. Baldwin, Chicago, Ill., Secretary.

A member desiring to read a paper before a Sec-Corresponding Secretary. tion should forward the paper, or its title and length one month before the meeting.—By-Laws.

Committee of Arrangements .- Dr. Le Grand Atwood, St. Louis, Missouri, Chairman.

#### AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary-all other nomi nations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J.—Create a new Section, to be known as the Section on Medical Juris-WM. B. ATKINSON, M.D., prudence. Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

RAILWAY FACILITIES TO THE ASSOCIATION MEET-ING .- The regular through trains of the Illinois Central Railroad from Chicago to St. Louis will afford excellent accommodations for delegates who wish to attend the meeting of the American Medical Asociation at St. Louis the first week in May. The night express, with Pullman sleeping cars, leaves Chicago at 8:30 p.m., and arrives in St. Louis at 7 The rates are full fare going and one-third for Asst. Surgeon John J. Cochran, ordered for duty as Post Sur-A. M. returning.

The rates on the Baltimore and Ohio Railway for those coming from the East and South-east are full fare coming and one-third fare returning.

#### MISCELLANEOUS.

Quarantine Inspections on the Northern FRONTIER OF THE UNITED STATES .- Official information having been received that the small-pox, which recently prevailed as an epidemic in some of the provinces of the Dominion of Canada, is now under control, therefore the regulations issued October 10, 1885, for the maintenance of quarantine inspections on the Northern frontier of the United States, are hereby revoked. JOHN B. HAMILTON,

Supervising Surgeon-General.

AT THE special meeting of the Fifth District Branch of the New York State Medical Association, held in Yonkers on Tuesday, March 23, 1886, it was unanimously resolved that this Branch express its feeling upon the death of the late Austin Flint, M.D., as embodied in the following report of its committee, Drs. A. L. Carroll and E. H. Squibb:

The Fifth District Branch of the New York State Medical Association desires to record its unfeigned grief at the decease of its most distinguished Fellow and Founder.

In the death of Austin Flint, M.D., LL.D., a loss has befallen the medical profession which will be sadly recognized as almost irreparable, not only in America, but throughout the civilized world. Few men of this generation have done so much to exalt the dignity of our chosen calling, and both at home and abroad, all who knew him conjoined with rever-

(not to exceed twenty minutes in reading), to the ence for his intellectual power and scholarly attain-Chairman of the Committee of Arrangements, at least ments a sense of personal attachment. Whether as an exponent of scientific medicine or as an exemplar of professional integrity and private virtue, he stood conspicuous among the best of his contemporaries, and at the ending of a life without reproach, of a career lavish in benefactions to mankind and rich in well-merited honors, no enmity will slur his memory, no jealousy dispute his leadership.

> J. G. PORTEOUS, M.D., E. H. SQUIBB, M.D., President. Secretary.

Palatable Quinine; Remarkable Tolerance. -Dr. E. F. Ingals, of this city, recently ordered for a child two years of age fifteen tablets of quinine with chocolate, each containing one grain of quinine. One half of a tablet was to be taken three times a day. Shortly after the administration of the first dose the child secured the box and ate all the tablets, thinking it candy. No evil effects followed.

geon, Ft. Mason, Cal.

Asst. Surgeon A. S. Polhemus, ordered for duty at Presidio of San Francisco, Cal. (S. O. 18, Dept. Cal., March 15, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING MARCH 27, 1886.

Martin, H. M., Surgeon, detached from "Independence" and ordered to the "St. Louis."

Guitéras, D. M., P. A. Surgeon, detached from Navy Yard, Pensacola, and wait orders.

Ross, J. W., Surgeon, detached from special duty at New York, and ordered to Pensacola.

Eckstehn, H. C., Surgeon, detached from the "St. Louis" and placed on sick leave. Means, V. C. B., Asst. Surgeon, detached from the "Ver-

mont" and ordered to the "Shenandoah."

Beaumont, N. H., Surgeon, detached from the "Enterprise" and wait orders.

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U, S, MARINE HOS-PITAL SERVICE FOR THE TWO WEEKS ENDED MARCH 27, 1886,

Wyman, Walter, Surgeon, detailed as chairman of Board for physical examination officer Revenue Marine Service. March 27, 1886.

Sawtelle, H. W., Surgeon, granted leave of absence for thirty days. March 27, 1886.

Irwin, Fairfax, Passed Asst. Surgeon, granted leave of absence for seven days. March 22, 1886.

Ames, R. P. M., Passed Asst. Surgeon, detailed as recorder of Board for physical examination officer Revenue Marine Service. March 27, 1886.

White, J. 11., Asst. Surgeon, granted leave of absence for three days. March 23, 1886.

Bailhache, P. H., Surgeon, detailed as chairman Board of Examiners. March 15, 1886.

Fessenden, C. S. D., Surgeon, detailed as member Board of Examiners. March 15, 1886.

Purviance, George, Surgeon, detailed as recorder Board of Examiners. March 15, 1886.

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No. 15.

## ORIGINAL LECTURES.

EXOPHTHALMIC GOITRE; DYSPEPSIA; PROGRESS-IVE MUSCULAR ATROPHY; CHRONIC DIARRHŒA.

A Clinical Lecture Delivered in Jefferson College Hospital on February 25,

BY ROBERTS BARTHOLOW, M.D.,

PROPESSOR OF MATERIA MEDICA AND THERAPEUTICS IN THE JEFFERSON MEDICAL COLLEGE, AND PHYSICIAN TO THE HOSPITAL.

The first case, gentlemen, that I will bring before you to-day, is one that will well illustrate the method of therapeutics as based upon a physiological basis, about which I have already spoken to you on several occasions. Exophthalmic goitre, as you no doubt are aware, is a disease characterized, so to speak, by four sets of symptoms: we have an implication of the eyes, they are prominent and protruding; we blood-vessels generally; and we have the heart affected, in so far as its action is increased in frequency and in force. We have, then, this complexus of symptoms in typical cases, but of course it is not in every case that we have all of them present. In this case, for example, there is no protrusion of the eyes, though the other symptoms are all well-marked.

Now observe this young man's general appearance, if you please; see his type of skin; now he is sitting quiet and has been for some time, and yet you notice that his skin is redder than it should be normally. When he makes any exertion, simply that of walking, or goes into a warm room, there is a very decided flushing, not only of the face, but of the whole body; in other words, there is at all times a dilated condition of the peripheral vessels, which is increased by the least exertion. Such a state of the cutaneous circulation is always present in this disease, and the temperature is naturally higher than it is in health, which you would expect. Well then, we have also an increased rapidity and force of the heart's action, which is really a compensatory augmentation, made necessary by the dilatation of the peripheral vessels, in order that the circulation may be properly maintained therein. Well now, where shall we look for an explanation of these phenomena, which we among them being ergot, which not only theoretimust recognize as due to a paresis of the vaso-motor cally opposes this action, but which has been amply nervous system? well, so much for this cause, but demonstrated by clinical experience to do so. Dr. that we may have a comprehensive view of the dis-Barnes, of London, has reported cases of hour glass

ease, we must endeavor to look further and ascertain. if possible, what has been the ultimate cause of this paresis of the vaso-motor system. There seems, from clinical experience, no grounds for doubt that some mysterious and as yet but imperfectly comprehended connection exists between this hypertrophied condition of the thyroid gland and the paretic condition of the vaso-motor system. Just how the connection acts we are not prepared to say, but that it does existed think there can be no doubt.

As I have already said, in this case we have no protrusion of the eyes, but we have a marked enlargement of the right half of the thyroid gland. When I place my fingers over this gland I can detect a very distinct pulsation therein, not confined to the skin alone, for, on somewhat deep pressure, I can also feel this pulsation deep down in the tissue of the gland itself. Now I have said that this gland exerts a mysterious influence; let me revert to it the eyes, they are prominent and producing, we again for a limited with the fact that very peculiar effects follow the removal of the thyroid gland, and you have also, no again for a minute. You are all no doubt familiar doubt, heard of the disease called myxœdema, which is characterized by, and is the result of, atrophic changes in this gland, just the reverse of what we have in this case. So that you see this body certainly must play some important part in the economy, though just what it is we do not know. Here, instead of atrophic, we have hypertrophic changes, and the vaso-motor nervous system affected in consequence.

> Well now, as I have said, we will treat this case from a physiological basis; we will use such drugs as are calculated to antagonize the conditions that are here present. In my didactic lecture this morning I was discussing the therapeutic properties of the two drugs, nitrite of amyl and nitro-glycerine, and I told you that if you were to administer nitrite of amyl to a patient you would produce, in consequence thereof, a fulness and a throbbing of all the bloodvessels, just such a condition as we see so well-marked in the case before us; therefore, reasoning from a physiological standpoint, we should obviously employ such drugs as are calculated to oppose, to antagonize this condition. Well now, what drugs are the antagonists of such articles as nitrite of amyl and nitro-glycerine? We have several, prominently

may be likened to that produced by ergot, and which

these two drugs. Having here, then, a condition analogous to that which would be induced by the use of nitrite of amyl, it is obviously logical, arguing from the basis of the antagonism of drugs, that we should employ ergot to combat such a condition. I will therefore order ergot for this patient, and I ask, is there any other drug that has this same character of antagonistic action? to which I answer, yes; that such virtue is undoubtedly possessed by digitalis, so that I will order a pill containing two grains of Squibb's aqueous extract of ergot, and one grain of powdered digitalis leaves, one of these pills to be taken thrice daily. Well, now, when we have ordered these pills have we performed our full measure of duty? No, by no means. We must then direct our attention to the enlargement of the thyroid, for the ergot and the digitalis are intended to combat the abnormal state

of the circulation.

When he throws back his head you can plainly see how decidedly enlarged this gland is. To reduce this enlargement, I know of no better remedy than the local use of an ointment of the red iodide of mercury, which will usually relieve a thickened, hypertrophied condition of the thyroid. The Indians, from whom we have derived this remedy, always rubbed it in in the direction of the rays of the sun. I do not know whether this procedure has any superiority over any ordinary method of applying it, but it can certainly do no harm, and we might resort to it. The patient might sit in front of a window, so that the rays of the sun would fall on his throat. There are certain rays of the sun outside of the solar rays, that is to say, the chemical or actinic rays, that certainly do have an influence on vegetable life, and may have some influence on animal life, and we might as well avail ourselves of any influence that these rays may possibly have, for, as I have said, they can do no harm. I said to use an ointment of the red iodide of mercury. Now, a word of explanation will be necessary, or else you may be misled by what I have said. This ointment was officinal in the Pharmacopæia of 1870, but is not so in that of 1880; but you can easily make an ointment by using one drachm of the mercury to one ounce of simple ointment, and take a piece the size of the end of your thumb and rub it well in. Do this once a day until the skin becomes sore. After awhile you will notice that the skin will become dry and the epidermis will peel off, but this does no harm. You may then suspend the ointment for awhile, recommencing it later and using it a little more cautiously than at first.

#### DYSPEPSIA.

was very ill, but it is just these apparently simple ensues. Taking this fact into consideration, it would

contraction of the uterus-which is a condition that cases that will baffle you if you do not cultivate the habit of critically inquiring into their cause and nature. is a condition that does not usually readily subside You must not despise small matters, for if you do spontaneously—wherein he has secured most satisfactory results from the use of nitrite of amyl, thus are several points of interest about this case. He very clearly demonstrating the antagonistic action of tells us that he vomits some time after eating, and that the ejected matter is liquid and occasionally there is some solid matter mixed with it. When he was in the waiting-room awhile ago he was given a draught of water, and after about half an hour it was regurgitated. Now there is a difference between vomiting and regurgitation that I will explain to you. In vomiting there is not only a contraction of the stomach, but the abdominal muscles also take part in the act; whereas in regurgitation it is only the stomach and esophagus that are involved, and regurgitation may occur without any implication of the stomach even, being simply an inversed peristaltic action of the œsophagus. We will sometimes have cases where the œsophagus is dilated, where a pouch is formed in some portion of its course, from which the food, after remaining therein for a time, is regurgitated. Such is not the case here, for the contents of the stomach itself are regurgitated. That is the problem that confronts us, namely, to find out why this regurgitation takes place; and until we have done so, we cannot hope to institute a rational course of treatment that will inure in the least to the patient's benefit.

The matter regurgitated is, as I have told you, liquid, and I assume that the man has a form of dyspepsia. Well, what form is it? If we were to give this man remedies directed to the relief of the vomiting, even though we were to restrict his diet, as such restriction is usually understood, we would most likely fail to effect a cure, because there is a special indication in the case that must be taken into consideration, and it is just here, in recognizing and appreciating the significance of these little symptoms, that the superiority in diagnosis and the greater success in treatment of one physician over another is to be found. We must work out our therapeutics on the fundamental principle that the matter here regurgitated is liquid; hence the patient must be restricted to a dry diet; he should confine himself to solid aliment, and take only that amount of liquid that is absolutely necessary to the proper performance of his functions. Of course, he could not absolutely abandon liquids, for they seem to be really more essential to health and life than do solids. This fact was abundantly demonstrated by Dr. Tanner, in his famous fast. He found it comparatively easy to get along without solid food, but his great trouble was in giving up liquids, so much so that after seven or eight days his desire, his longing for them, became well-nigh irresistible. So that I say water is really more essential to the performance of the functions than is solid food; we could get along for a longer time without solid foods than we could without liquids. When we do not use liquids, the liquid This young man comes to us complaining of vom- constituent of the blood becomes very much dimin-This may seem like a trivial case to bring be- ished thereby, the blood, in consequence, is thickfore you, and the man does not look as though he ened, and so an embarrassment of the circulation not do to rigidly exclude liquids from this man's diet, muscles, but it is impaired; it is not as marked as but, to repeat, he should take them only in such normal, and it is confined to certain groups of musquantities as are absolutely essential. He should cles, but although the muscles are much wasted, they take no fluid at meals, unless it is necessary to aid yet respond fairly well to the faradaic current; they him to masticate his food, and then he should take react quite well to the direct, but less so to the inall articles that are liable to undergo fermentation in indicate? It tells us that all the muscular elements fermentation, with the liberation of butyric acid, and great extent, replaced by fibrous tissue, it is not also, no doubt, saccharine articles, that liberate acetic wholly so usurpated, and this is a point of exceeding cles as are free from saccharine and oleaginous matter. Now, in addition to the regulation of the diet, which is the most important consideration, what drug can we use? I have, in such cases, derived very good results from the use of sulphurous acid (mind, I say sulphurous and not sulphuric), of which we will give him ten drops (of the dilute acid) in a wineglass fairly good condition, and we may therefore hope to of water, thrice daily, before meals. This drug, in conjunction with the regulation of the diet, will do a great deal of good.

#### PROGRESSIVE MUSCULAR ATROPHY.

The characteristic attitude of this woman's hands is so striking that we have no trouble in making a diagnosis. You see that she has wrist-drop, but I do not say that she is suffering from lead-poisoning, with which trouble you might, at first sight, confound this condition, because she is not so affected. You must remember that there are many varieties of wrist-drop. So far as the cause is concerned, the condition is not in this disease. always due to plumbism, and you should bear this fact clearly in mind, else you will be often misled in your diagnosis. You will also note how all the muscles about the fingers, the interessel very perceptibly, are wasted. When I examine the shoulder, I feel the spine of the scapula very prominent, while both graph, in which he claims that the disease really above and below it, more especially below, there is a begins, that the lesion is situated at the point where marked depression, which tells me that there is a the disease first becomes manifest, that it is situated wasting of the muscles in this region. She can raise in the terminal filaments of the motor nerves, and her arm from her shoulder, by which I know that that it is transmitted to them through the muscles, there is still power in the deltoid, but this power is having been really in the first place an affection of noticeably diminished. Now, then, we have evident the muscles themselves, from which theory the diswasting or atrophy of the muscles in a muscular ease would seem to be rhenmatic somewhat in nature. young woman, who works in a manufacturing established the opposite view is that the lesion is situated in the

does quite often occur in men under just the condi- that the theory of the Heidelberg professor was the tions that we have here; that is to say, it usually correct one, for the electrical responses would cause occurs in strong, muscular men, and is the result of us to think that the disease was purely a local one, some over-exertion. It is sometimes hereditary, that and consisted simply in an atrophy of the muscles is to say, a tendency to atrophy may be inherited, without, as yet, any implication of the nerves. and in such cases over-exertion will light up the latent

only a few drops at a time. He should also avoid direct current. Well, now, what does this response the stomach. He doubtless eats fats, which undergo are not gone, that while the muscular tissue is, to a acid and carbonic acid gas, and I will venture to say great importance, for upon the loss or the conservathat he is troubled with eructations of gas; well now, tion of this reaction will our prognosis depend. he should avoid such articles. To summarize, his Since we find that the muscular tissue still remains, diet should be dry and should consist of such arti- we may hope to rejuvenate it. I would say that in this case there is wasting of the muscles, and that while the response is feeble, yet they do respond to direct faradaic excitation, and much more readily to galvanism. We have, then, a condition where the muscles are not completely changed in character, but are mainly atrophied, the muscular elements are in benefit the patient. Let us see what the difference in temperature is, and for this purpose we will use one of these surface thermometers that are made by Hawkesley, of London, and are so arranged that a large surface of mercury is exposed to contact with the skin. We might make comparative observations of temperature, if we wish, though it is sufficient for all practical purposes to know that it is lower in the affected part, and we usually find it several degrees lower. In this case we find the temperature of the cheek to be 99°, while that of the thumb is only 92°, a difference of seven degrees, which is very great even

The question of the seat of the lesion in progressive muscular atrophy has been greatly discussed and is, as yet, unsettled. One of the latest authorities who has written on the subject is a distinguished professor of Heidelberg, who has contributed a lengthy monolishment. It is a case of progressive muscular atrophy. multipolar ganglion cells of the anterior cornue of This disease is not very common in women, but it the spinal cord. This case would seem to indicate

Well, now, assuming this to be the correct theory, inheritance into activity. It will be observed, that what treatment would be indicated? Well, as the is this tendency, in certain family groups. It nearly muscles respond to the faradaic current, it would be always commences in the fingers, and first manifests obviously proper for us to excite them thereby until itself by sensations of pain and trembling of the fin-they are restored to their full volume and normal regers and hands. So also, in these parts, there is action. If they did not respond to faradism we would always a reduction of temperature. Now we will employ galvanism, but as they do respond to the test the electrical reaction of the muscles; you see former, it will be used. Well now, is there anything that every interruption produces a contraction of the else we can use in addition to electricity? Yes, we cation; we will inject  $\frac{1}{60}$  of a grain of strychnia into marked retinitis of both eyes. The infusion of digithe affected muscles about three times a week, and talis in full doses was given, and followed up until the will also look to improving the general health.

#### CHRONIC DIARRHŒA.

rheea; that is, to speak more correctly, he will have and feet from time to time, and by this means I sucattacks of diarrhoa every now and then, which will ceeded in reducing the swelling very much. My last for several days each time. The stools are liquid, record shows that I made upwards of a thousand watery and yellow in color. He is never constipated, punctures with the lancet. The scarifications were the passages being always more or less soft in confollowed by no untoward symptoms, and the patient sistence. I have brought the case before you more often requested the scarifying to be done for the reespecially to speak of its treatment. The discharges lief afforded. contain no pus, no blood and no mucus. Now, here again we will base our treatment of this case upon to each leg from the toe to above the knee. physiological principles. There is evidently a con- afforded him a good deal of relief, and after he had found to be sufficient.

#### ORIGINAL ARTICLES.

## EARLY AND REPEATED TAPPING IN CASES OF ASCITES.1

BY AUGUSTUS P. CLARKE, M.D.,

OF CAMBRIDGE, MASS.

I was called on March 17, 1879, to attend A. V. S., dyspnæa. He had always been well until that time, 16 quarts; October 1, 17½ quarts; October 28, 13 when he walked somewhat faster than usual. The quarts; January 5, 1882, 12 quarts; February 10, walking seemed to be the first exciting cause of his 14 quarts; March 14, 14½ quarts; March 27, 17 malady. When 1 saw him he was quite unable to quarts; April 17, 18 quarts; May 8, 17 quarts; May lie in a horizontal posture on account of the extreme 22, 13½ quarts; June 5, 12 quarts; July 11, 14 dyspnæa. Counter-irritants, expectorants and stimquarts; August 22, 12½ quarts; March 30, 1883, ulants, with ammonia, afforded some relief, and the 11 1/2 quarts (after a period of six months and eight next day he was much easier.

feet and legs were greatly swollen, and his urine was scanty, the amount voided in twenty-four hours being not much over a pint. The urine, when boiled, gave a precipitate of albumen, one-sixth, the specific gravative experience. The properties of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted of fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by this means of treatment amounted or fluid removed by the flu ity was 1014. Both lungs were evidently more or in all to 506½ quarts (32 fluid ounces contained in less addematous, and this appeared to be the cause each quart, or 126 % gallons). of the orthopnea. The patient also suffered a good deal from cerebral symptoms; he was delirious, and and was often able to go out of doors, especially

can probably accomplish a great deal by local medi-from dimness of vision; the ophthalmoscope revealed physiological and therapeutical action of that drug was obtained. Elaterium in pill, gr. 16, was given every second or third day. Sometimes the pill had to be This young man tells us that he has chronic diar-repeated the same day. I also scarified the legs

Subsequently Martin's elastic bandage was applied gestion of the intestinal mucous membrane, and we learned their uses and value he would rarely be withask what drug will combat such a condition. There out them. His symptoms at length became better, is none better than belladonna, and we will give this the swelling of the extremities was markedly less, and patient 15 drops of the tincture thrice daily; we will the dyspnea much less urgent. The action of the give it alone, that we may unequivocally note the lungs became more regular, and the pulse and temeffect. Belladonna is sustained in its action, and it perature were nearly normal, but he began to suffer may therefore be that after a while two doses will be more from ascites; and though the diuretics and hydragogues were freely employed, they had but a limited influence on the fluid effused into the peritoneum. Fluctuation became distinct, but I waited until August 20, 1880, when with the aspirator I removed four quarts of fluid from the cavity of the peritoneum. This gave the patient considerable relief, and on September 11 I again drew off eight quarts. The patient bore the loss quite well, and afterward appeared much better.

On October 13 I drew off with a small trocar five quarts. On November 14 I drew off four quarts, and January 18, 1881, I drew off with a larger trocar a Hollander, aged 56 years. He was a cabinet- 8½ quarts; March 18, 11½ quarts; April 21, 15½ maker, and while returning a distance of two miles quarts; May 14, 16 quarts; June 10, 18 quarts; July from his work began to suffer from a severe attack of 16, 16 quarts; August 6, 14½ quarts; September 3, days); August 14, 141/2 quarts (after a period of five I did not visit the patient again until January 20, months); September 7, 12 quarts; October 21, 15 1880, when I was called, and learned that he had quarts; December 17, 13 quarts; January 25, 1884, suffered much in the meanwhile from occasional at- 14½ quarts; February 29, 15 quarts; April 7, 17½ tacks of dyspnœa, as well as from œdema of the feet. quarts; July 7, 13½ quarts; October 3, 13 quarts; At this time he was suffering from orthopnæa. His November 19, 16 quarts; December 17, 12 quarts;

After each tapping the patient was always better, unable to sleep, and hypnotics acted badly. He had in warm weather. Soon after I began to tap him he always been of temperate habits. He also suffered gained in strength, nearly all the cedema of his lower limbs disappeared, his appetite became better, and <sup>1</sup>Read before the Cambridge Society for Medical Improvement, for the most part he needed no quieting medicine;

indeed, he took but little medicine after this line of other febrile disturbances which appeared so early in treatment was adopted. The patient also began to the case. The diminished flow of the urine was under take quite a lively interest in various matters, such the circumstances indicative of congestion of the as reading the daily papers, until the accumulation of portal vein. The increased bulk of the liver, and fluid become excessive. The urine became of higher the commencing ascites and the cedema of the lungs specific gravity, for a long time, on boiling, was only must have greatly interfered with the action of the a little opalescent, and there was a tendency to a diaphragm, and have been the cause of the extreme return of its normal constituents. The quantity of dyspnea which also so early presented itself. urine for a healthy person was only approached; it never exceeded 1,000 cc., and for the most part was showed a general failing of the vital powers; the aponly 500 cc. daily. Accurate measurements were petite was poor, though the patient was not greatly kept for a long period daily. Whenever the quantity emaciated. About May 1, 1885, he began to be of urine for any considerable time was increased, the troubled with dysenteric stools. These exhausted symptoms and condition became much better; and whenever the quantity of urine was markedly less, sidered rather as the result of gradual asthenia than say between 400 and 500 cc., the patient was more of any peculiar lesion or organic phase of the disease. uncomfortable.

months and eight days. This was from August 28, 1882, to March 3, 1883. The next longest period was that of five months, from March 3 to August 4, without resorting to it. He showed me an account 1883. During these periods the patient took from time which he had found in reading an old Dutch author, to time a good deal of fluid extract of jaborandi and of that Peter the Great had saved or prolonged the life ergot. The patient felt so far recovered for awhile as of his wife, Eudoxia Feodorovna, by tapping her for to be out a little almost every day. The urine during a dropsical malady. This art, it appeared, Peter had this time was greatly improved and he gained in learned by witnessing the operation as performed by strength. For several weeks the circumference of his the chirurgeons when he was a young man and an abdomen over or just below the navel was no more inmate in a European hospital. This little bit of than it often would be three or four days after a tap- history served to stimulate my patient by giving hope increased quite rapidly, and the tension became in- for his relief. He died on May 13, 1885. tolerable. The patient usually recovered well after each tapping. Sometimes, however, he would feel a recorded cases of ascites from various causes coming little weak, but a small draught of wine or of milk, under my care up to the time I was called to treat or sometimes only water, was all that was needed to the case here reported, shows that six cases recovrevive him. He usually kept his lounge or bed for a ered; one case after a single tapping, one case after day or two, and then dressed himself as usual. A three tappings, two cases after four tappings each, short time before he was tapped in December, 1884, he one case after three tappings, each tapping varying met with a severe fall down a long flight of stairs. He from two to three months, and one case, that of a was severely contused about the right shoulder, left lady aged 51, after six tappings, each tapping varying hip, leg and other parts, but he sustained no marked from six weeks to three months. There was no seninjury upon the abdomen.

siderable febrile disturbance, the pulse often going as inces, and has not to my knowledge since returned. high as 115, and the temperature as high as 101.5° to One case was that of a man, aged 64, whom I tapped 102° F.; but for a long time before his death the for ascites four times during a period of three years. pulse was normal or nearly so, and there was no rise. He was greatly relieved, but afterwards died from of temperature. Immediately after being tapped the some abdominal disease complicated with acute temperature would occasionally be slightly sub-nor- pneumonia. mal. At first the patient suffered very much from constipation, but for the last three years of his life 42. These were phthisical patients, each much trouthe bowels were very regular. Though the urine bled with ascites. One of them was tapped twice, was scanty, and at first highly albuminous, very few and the other three times during a period of eleven casts of any kind were observed, or other abnormal months. They were greatly relieved, but both finally products of a microscopic character. After he was had to succumb to the original malady, which was

tapped he assumed the horizontal posture.

The liver, for the last two years or more, could be distinctly felt as a hard and contracted globular mass was under my care from July to September, 1878. high up in the right hypochondriac region. It was She had Bright's disease. She had previously been evidently not more than one-half the natural size. under the treatment of two homocopathists for what At first the area of the liver by percussion appeared they at first supposed to be "rheumatism and neuto be unusually extended, and this increased size at ralgia of the spine," until the legs and abdomen befirst, occasioned by congestion or inflammation, would gan to swell, when they were dismissed and I was account in part for the increased temperature and called and diagnosticated, with Dr. Holt's assistance,

The last six months or more of the patient's life him more and more, so that his death could be con-The tapping, as already stated, gave immediate relief The longest period between the tappings was six from the dyspnœa and other urgent symptoms, and the patient, though dreading the operation, at length became satisfied that he could not be comfortable Toward the close of these periods the fluid and confidence in the treatment as the only means

In regard to my own experience, reference to the sible return of the fluid in her case after a period of During the early part of his sickness he had con-two years. After that she left the State for the prov-

Two cases were males, aged respectively 37 and far advanced before this treatment was undertaken.

Another case was that of Miss S., aged 17. She

Bright's disease. kidney.

She had malignant disease of the stomach. She also had ascites. The fluid, though moderate in amount, was a source of great suffering, and she required from February 5th to April 25th, 1878, the time of her death. I tapped her twice. She experienced marked relief from each tapping until the fluid again accumulated, which did not occur until after the lapse of four weeks.

The twelfth case was that of Miss P., aged 43 years. She suffered from extreme dyspnæa and great throbbing at the neck, which seemed indicative the swelling of the extremities and abdomen. This was from November 1 to December 16, 1879; but on December 31 following she had a recurrence of the dyspnæa, with marked ascites. Between this date and March 10, 1880, she was tapped twice, with much relief after each operation. On April 3 she died in consequence of the enormous aneurism, which after death proved to be at the arch of the aorta.

I will now briefly relate a case which has been of unusual interest to me. Mr. B., aged 76 years, upon whom I had operated three times during the months of May and June, 1884, before I succeeded in completely curing him of old hæmorrhoids attended with severe prolapsus of the rectum. After this the patient had entirely recovered, so that he was able to be out as heretofore during the months of August and September. In November following he was run over by a heavy express wagon while in Boston, and was afterwards exposed to severe cold and wet, and was chilled. On November 11 he was unable to void urine. His legs, genitals and abdomen were enormously swollen, and the patient became stupid; his tongue was dry and brown. With great difficulty I succeeded, on that day, in drawing off about a pint of urine, which was of a dark, smoky color. On the next day he was much worse; was still stupid and unable to comprehend anything of consequence when spoken to, and I found it necessary to slit up the prepuce about an inch and a half before I could reach the urethra with any kind of a catheter whatthese parts. Only a small quantity of urine, howevthe apothecary, Mr. H. S. Andros, who had frequently covery, except for a troublesome pruritus, the absence with cod-liver oil and phosphorus internally. of the tendon reflex and a tendency towards locomotor ataxia. The patient is able to be out of doors morphia, with gr.  $\frac{1}{200}$  of atropia, at 9 A. M. The

We were compelled to tap her (1880) when I began to treat my patient, A. V. S., twice within two months, but she finally died in a almost all authorities refer to tapping of the abdomurremic convulsion. Her abdomen was enormously inal cavity in ascites to be had recourse to only as a distended before the tapping. This was undoubtedly last resort. In The JOURNAL OF THE AMERICAN a case of acute parenchymatous disease of the MEDICAL ASSOCIATION, Vol. 1, No. 10, will be found an original article "On Early Tapping in Cases of Another case was that of a lady aged 60 years. Ascites." This article, by Austin Flint, M.D., was read at the meeting of the British Medical Association in Liverpool, on August 2, 1883, and which was about three years after I began to treat my patient, large doses of morphine. She was under my care whose case I have given in extenso at the beginning of this paper. Dr. Flint, in speaking of the advantages of early tapping in cases of ascites, gives a report of twelve cases illustrative of the benefit of such tapping. He refers to a series of forty-six cases in an article "On Hydro-Peritonæum," which he published in the American Journal of Medical Sciences in the year 1863. In his article of 1883 he again states that more writers than heretofore recommend of aneurism. Elaterinm and digitalis removed all tapping in cases of ascites "only when the dropsical accumulation has occasioned an alarming interference with respiration, and after other means of treatment have proved ineffectual." In a foot-note he mentions "as exceptional instances" some cases occurring in Dr. Frederick T. Roberts's "Hand-Book of Medicine."

## QUININE IN SCIATICA—UNUSUAL SUSCEPTIBILITY TO MORPHIA, WITH TOLERANCE OF THE DRUG.

BY WM. G. EGGLESTON, M.A., M.D., OF CHICAGO, ILL.

The average length of time, I believe, required for a subcutaneous injection of morphia to take effect as an anodyne is about fifteen minutes; for the hypnotic effect a still longer time is required. The following case is interesting on account of the facts that the drug acted in a remarkably short time, and that at times there was no appreciable interval between the anodyne and hypnotic effects; and on account of the favorable action of quinine in a case of sciatica.

On March 13, at 8 P. M., I was called to see A. F. H., æt. 54, who who was suffering from a severe attack of sciatica on the right side. For sufficient reasons I administered morphia, gr. 1/6, with gr. 2000 of atropia. As usual when I administer any drug subcutaneously I noticed the time. While replacing my syringe in the case the patient threw his arms across his chest, said "All right," and was asleep ever, so great was the swelling that had extended to immediately. This was just four minutes after the injection was made. Being somewhat alarmed at er, was found in the bladder. With the assistance of such unusual susceptibility, I aroused the patient and spoke to him. I had no difficulty in awakening him, assisted me in the case of A. V. S., I aspirated the and he seemed surprised that I had aroused him. He abdomen and removed four quarts of fluid. The said that the drug had had a similar effect two or next day I tapped again, and the amount of fluid three years ago when he had taken it, and his wife now removed was nearly a water-pailful. After that confirmed his statement. Upon this information I the patient was able to void his urine, and by the determined to set aside my proposed treatment of use of elaterium he gradually made a complete re- the case with injections of ether, and to use morphia,

On the next day, March 14, I administered gr 1/8 almost daily, and walks quite well. Up to the time patient had slept well the night before until about 3:30 A.M., after which the pain began to return slowly. continue this line of treatment. The above recorded The injections were made superficially behind the case is the second (of sciatica) in which I have reright trochanter on the affected side. Within three cently used phosphorus, in large doses, with cod-liver minutes the patient announced that he "felt it" in oil. I am sure that the first case experienced more his arms-"a kind of numb feeling down through the direct and immediate relief from ether injections elbows." Within another minute he said that he was than from the phosphorus, and that the second case perfectly easy. This time, however, he did not fall was cured by quinine. Sill, I believe the oil and asleep. Another injection was made in the evening, phosphorus to be valuable parallel and after-treatment. the pain being annoying, but not so great as on the doses of cod-liver oil and phosphorus (gr. i-f3jss).

me as to the element of periodicity in the attacks of it is necessary to use 5 or to grains more, as a rule, pain before I was called in. He now remembered when it is given in this way. A protracted personal that the first attack, about five days previously, had experience with "chills" has given me a dislike to come on at 8 P.M., the second about 7:30; the third small doses of quinine (gr. v every four hours) in a little earlier, and the attack on the previous day intermittent affections. Nor do I think that the about 5 P.M. I ordered bisulphate of quinine gr. value of quinine in neuralgia is limited to the strictly xxx, one-half to be taken at 2 P.M., the remainder at intermittent cases. I recall one case in which a

4 o'clock.

nine made him "pretty drunk," he said, and yielding though the patient had been taking gr. iv three times to his very earnest desire I ordered none for this a day for fully two weeks. afternoon. The pain came on at 5:30 P.M., and I gave morphia at 7:30. As before, he was at ease and shown, that large doses of quinine, given at one time asleep in four minutes. The only subjective sensal for the antipyretic effect, have a more marked effect tion was the numb feeling down the arms. There was on the temperature than the same quantity distributed no nausea whatever, and no itching of the nose. I over a long time; and I see no reason to doubt that ordered bisulphate of quinine as before, to be taken the same holds true when the drug is given solely as at 2 and 4 P.M.

at a dose.

tinued for to-day, two doses of gr. x each.

the patient has been at work since March 20. He In three experiments Thau found that about threecontinues the cod-liver oil and phosphorus (now fourths of the amount given was eliminated in twelve gr.  $\frac{1}{100}$  at a dose), and is taking Fowler's solution, hours. I use the bisulphate invariably. It is very gtt. vj after each meal. His appetite is excellent; much more certain in its effects, much more soluble, bowels perfectly regular. Ordered pil. hydrarg. gr. and its effects are therefore more quickly produced. v to be taken on the first appearance of furred Its solubility, moreover, renders it especially adapttongue or irregular action of the bowels, and to be able for hypodermatic administration. When thus

and there has been no pain whatever.

Anstie has long laid much stress on its importance, subcutaneous injections of any druz. as has Dr. Ashburton Thompson. Anstie insists that fat must be liberally taken. So also, in regard to the with the tolerance, without any bad or unpleasant use of phosphorus, Dr. Thompson has used and effect whatever, of a dose which acted so quickly, I recommended it for some time. He gives it in solu- think that the case recorded is very remarkable. tion in cod-liver oil, gr. j—[3]iss. One drachm of this That the imagination of the patient had nothing to is given every four hours. The solution is best made do with the rapid effect was shown by the fact that a by adding the pharmacopæial phosphorated oil to the subcutaneous injection of warm water, given expericod-liver oil. Dr. Thompson has given a table of mentally on the second day, had no effect whatever. fifty cases of neuralgia treated by phosphorus, and in several the effects of the drug seem to have been truly remarkable. According to him, if marked results be not seen within three days, it is useless to

The amount of quinine used in this case may be previous atternoon. Within a few seconds less than thought by many to be excessive. But I think that, four minutes he began to say that he felt better, but as a rule, larger doses of this antiperiodic are required was asleep before the sentence was completed. In to prevent the recurrence of a severe neuralgia than the morning he had commenced taking teaspoonful of an ordinary "chill." Again, many are in the habit of administering quinine in 5-grain doses, and claim March 15.—Patient said that he had misinformed that the effects are just as good or even better. But severe case of non-intermittent (though probably March 16.—The pain did not come on yesterday malarial) trigeminal neuralgia was effectually routed afternoon, and the patient slept all night. The qui-by two doses of gr. xxx, on two successive days;

At any rate, it must be admitted, as has been an antiperiodic. It is possible, too, that malarial March 18.-No pain yesterday. Quinine contin- pyrexia and malarial neuralgia differ only in this: in ued for to-day. Phosphorus in oil reduced to gr. 30 the first the nervous explosion is general, and takes the form of fever; in the second it is localized in one March 19.-No pain yesterday. Quinine con- or more nerves and causes pain. One reason that has been advanced against the giving of one or two March 24.—There has been no return of pain, and large doses of quinine is that it is rapidly eliminated. followed on the next morning by a Seidlitz powder. used the solution should always be brought to the March 29.—He reports that he is still improving, boiling point in the spoon immediately before it is taken into the syringe. This, I think, is the most In regard to the use of cod-liver oil in sciatical certain way to prevent sore spots and abscesses after

In regard to the extreme susceptibility to morphia,

65 Randolph St.

<sup>1</sup> Binz for n I that about two-thirds only was eliminated in 48 hours

#### A CASE OF STRAMONIUM POISONING, WITH PECULIAR SYMPTOMS.

BY C. C. GRATIOT, M.D.,

OF SHULLSBURG, WISCONSIN.

Between the hours of 7 and 8 P.M. on February 22 I was called in haste to see the child of Street Commissioner Thomas Lee, of Shullsburg, the messenger stating that the child was having convulsions. I arrived at the house within a few moments and found the patient, a boy three years of age, sitting in his mother's lap, his arms and hands outstretched as though to grasp some object. He would open and shut his fingers with deliberation, as though the object he was trying to grasp required some caution and skill to take hold of. After two or three minutes of though about to seize the object, and would then cry he had cut a tree. distressfully.

fixed, looking straight ahead as though watching there be any of the dead plants about with pods full something. The pupils were widely dilated, cheeks flushed, mouth dry, pulse fast and full, heart's action

good but fast, and respirations increased.

There was also another hallucination. He would act as though something was approaching him from the opposite side of the room, and would point towards it: his eyes and facial expression would convey the idea that the object was after him, and coming nearer and nearer, until he became so agitated that he seemed on the point of having a convulsion.

These hallucinations would alternate, and the only thing that diverted his attention for an instant would be to offer him a cup of water, which he took with a seeming relish. Turning down the light until the room was almost dark made no difference in his

actions.

I was told by the parents that he had always been healthy; that he had been playing out of doors all day, ate a hearty supper, and that nothing wrong was noticed until a few moments before they sent for me, when he commenced to act in the manner described. I inquired if there was any medicine in the place that he could have taken, but could find nothing that threw any light on the case. While watching him and making these inquiries I noticed that the symptoms were getting worse.

It occurred to me that the symptoms were those of belladonna poisoning. I administered an emetic of ipecac, gr. x, and a large quantity of water. He vomited in a short time, but there was nothing unusual in the ejected matters. I then gave small doses of morphia and bromide of potassium, and rectal injections to move the bowels, but without effect. After an hour he became more quiet, and fell asleep. After an hour's sleep he seemed somewhat better. The pupils were still widely dilated, but the hallucinations were not so vivid.

On telling a professional friend of the curious actions of the patient he remarked that the symptoms were similar to those which he once saw in the cases of two children who had eaten stramonium; and it immediately occurred to me that such was the case with my patient. He vomited several times

during the night, and would wake up and go through his performances; but not so badly as during the evening.

On the morning of February 23 he was much bet-The crazy actions had disappeared, but the pupils were still considerably dilated, cheeks flushed, and he was very thirsty. He ate a good breakfast, and before night was apparently as well as ever. In the matters vomited during the night were a number of stramonium seed. I found on inquiry that his father had kept a patch of stramonium plants in the corner of his yard, which he used in making oint-ment for horses. The boy had cut one of the dry stalks, which was hanging with pods full of seed, and had eaten a quantity of the seed. After finding the cause of the child's sickness the mother remembered such manœuvreing he would make a sudden jump as his bringing the stalk on the porch, and saying that

The case is of still further interest as showing that While his hands were thus employed his eyes were stramonium poisoning is quite possible in winter if

of seed.

## MEDICAL PROGRESS.

Causation and Nature of Hypertrophy of THE PROSTATE.—MR. REGINALD HARRISON gives an interesting summary of his views on this subject as follows: In a paper recently published on some "Changes in Form of the Prostate and Floor of the Bladder," I have shown that the inter-ureteral bar of muscular fibres so frequently met with in cases of enlarged prostate is to be regarded as the outcome of efforts, by the development of extraordinary agents of micturition, to expel urine from a part where it is apt to lodge and cause inconvenience. In connection with these investigations, I have met with instances where an unusually depressed state of the floor of the bladder, or trigone, appeared to me to have existed previously to an enlarged prostate; in fact, that a condition of residual urine preceded, and was not the sequence, of enlargement of the gland. The trigone, or floor of the bladder, in addition to being a highly sensitive part, is peculiar in that it contains but few muscular fibres in its composition; muscle in abundance may be found as low as a line corresponding with the openings of the ureters, and marking the superior boundary of the trigone, and below in the prostate; between these two points the power of muscular contraction can hardly be said to exist. Assuming that, from any cause, such as long retention of urine, habit, position of the body, or the weakness connected with advancing years, the trigone, or non-contractile part of the bladder, becomes permanently depressed or altered in form, so that the person finds himself unable to get rid of the last halfounce or so of urine, the effect will be frequently repeatedly expulsive efforts in all the muscles immediately adjacent to a part which, by reason of its connections and structure, has no power of exercising contractility. This will eventually lead, as I have

<sup>1</sup> Liverpool Medico-Chirurgical Journal, July, 1885.

shown, to the hypertrophy of the muscular fibres be- a rule, merely involve a limited area of the bladder tween the orifices of the ureters—the intra-ureteral wall; consequently the hypertrophy following stricbar-as well as, I believe, to that of the muscular ture is universal so far as the viscus is concerned. In fibres so largely entering into the composition of the the same way, the whole bladder is involved when a prostate. In this, I submit, will be found the imme-growing prostate becomes in addition an obstacle to diate cause of prostatic hypertrophy. The change micturition. When a stone is fixed to the bladder it being an example of an hypertrophy, its production is, I believe, subjected to precisely similar influences by conditions favoring the formation of over-growths on the part of the bladder wall immediately adjacent observed in the body seems to be reasonable. Such to it as those described in connection with the tria view, as applied to the large prostate, is strength- gone, and may result, as I have seen, in a circumferened by certain clinical observations. A frequent ential development of muscular tissue sufficient in desire to empty the bladder is constantly met with some instances to produce sacculation. This is not in what is regarded as the earliest stage of prostatic an uncommon process, and may be studied with hypertrophy, and long before the gland has assumed advantage in those cases where secondary calculi any considerable size; the more frequent the calls are developed as a consequence of surface irregularare to urinate, the more rapidly does the prostate ities produced by a large prostate, and which I have grow, and all circumstances which tend to increase referred to elsewhere as fixed or stationary stones. grow, and an extending states where the further it may be urged that such an explanation development of this condition. Lastly, the only means which are known to have caused the opposite state—namely, that of atrophy, to be engrated on fer from them. I have investigated cases of this kind the hypertrophied gland-are those which for a con- generally with the result of finding out that, at some siderable time converted a muscular and physiologi- period in their history, considerable urinary irritation cal act into a purely mechanical one; for instance, was present and persistent. That an hypertrophy the case I published some years ago (since repeated may prove to be a precise compensation, without, on with equally satisfactory results), where, by the wear- the one hand, falling short, or, on the other, overing of a canula inserted through the perineum, the lapping, I think we have evidence of here as in other process of micturition was reduced to the mechanical parts of the body. It has been objected that enact of turning a tap on the part of the patient, largement of the prostate cannot be regarded as a Though regarding senile enlargement of the prostate mere muscular hypertrophy, as it does not occur as an hypertrophic change, I was at a loss to explain during those periods of life which are most remarkahow it was induced until I met with instances where, ble for muscular activity and development. On the from the conformation of the bladder, an irritating other hand, it is hardly necessary to remark that, condition of residual urine seems to have preceded, though an hypertrophic act in which muscular tissue and not to have been the consequence of, an en- is principally involved, it is really prompted by allarged prostate. Instances in practice are not un-terations in the form or function of a contiguous part common in elderly males, where all the symptoms which are the products of advancing years. usually assigned to prostatic enlargement are present, without there being evidence, beyond the presence tion with analogous processes of hypertrophy, which of some residual urine, that any physical change in in general terms have been referred to, that the best the gland has taken place.

the first to show the hypertrophic change seems to is adjacent. In the heart it is not the valve that is strengthen the inference I have drawn from the de-reproduced, but the ventricle or auricle which is augvelopment of the inter-ureteral bar, and to indicate mented. Nor does the analogy cease here, for as the that both conditions are the direct result of straining hypertrophied heart in turn occasions symptoms peand an excess of the expulsive action of the bladder culiar to itself, in like manner does the large prostate and associated parts. Structurally, the inter-ureteral produce its own derangements. In conclusion, it bar and the hypertrophied prostate are identical, with should be remembered that the changes and diseases. the exception that in the latter will be found the to which the hypertrophied gland is liable, and about follicles which have led to it being regarded as a which there is much to be said of great practical glandular body. It is impossible to examine some value, must not be confounded with the primary leof the commoner forms of advanced prostatic hyper- sion it is desired here to refer to.—Lancet, March trophy without being struck with their resemblance 6, 1886. to what I would describe as growing casts of the interior of a frequently contracting bladder.

tion on the part of the bladder causes enlargement of the prostate to follow, how is it that stone and urethral stricture do not in like manner occasion it tacks in any. as a uniform consequence? To this I would reply that stone and stricture as excitants of expulsion are general or varying in their operations, and do not, as

It may not be out of place to observe in connecmarked are those where structural defects are reme-The frequency with which the floor of the gland is died, not in the part itself at fault, but in that which

Pyridine in Asthma. - Dr. Joseph Neff, of Phila-But it may be urged that if repeated expulsive ac- delphia, in an article on this subject, gives the following summary of his results with this drug:

Nervous pulmonary asthma, 3. No return of at-

Cardiac asthma, 3. All were relieved of attacks. One remained under observation three months, and one for two weeks only.

British Medical Journal, Dec. 24, 1881, and April 8, 1882.

<sup>1</sup> Annals of Surgery, June 1885.

discharge, being under treatment less than three weeks. New York Medical Journal, March 13, 1886.

Asthma in advanced phthisis, 2. In one there was but slight relief during the paroxysm; in the other

there was absolutely no benefit.

Asthma as a complication of gout, 1. No return in a month. Albuminuria from interstitial nephritis General Hospital under my care on April 7, 1885. was present.

Of the fourteen cases reported by Sée, four were in females, ten in males, from 30 to 68 years of age. Nine were what he terms "pure asthma," all of which and had had two children, both of whom died before were more or less relieved, and five cases of cardiac they were 6 month old. Since then, she had had two asthma.

alone.

in a more recent report by Lublinski, one case of The examination caused a little hæmorrhage. I remarked tremor of the limbs with nausea, and another moved a small fragment of the growth, which, upon with vomiting, dizziness, and severe headache. In microscopic examination, was found to consist chiefly all of these, however, the length of time of each in- of large round cells, with a single large nucleus, but halation was prolonged from one to one and one- no flat or irregularly shaped cells. The tissue was half hour. The beneficial results obtained from this pervaded by the mycelium of a filamentous fungus remedy seem to be from its action on the sympathetic (one of the hyphomyeetes). and the medulla. Any depressing effects on the heart would seem due rather to the interference with weeks later, six month from the first symptoms. No the pulmonary functions, death being caused, in the post morten examination was made. lower animals at least, by paralysis of the respiratory centers.

Here at least morphine will hardly be superseded.

ing in a few moments, and at times with increased March 20, 1886.

With so little experience, this drug must be admin-

Bronchial asthma, 3. In one there was no return tion is thoroughly understood, severe or persistent during ten weeks' stay in the hospital. The two others headache, nausea, vomiting, and vertigo acting as were relieved of their attacks and insisted upon their danger signals, warning us to proceed with care.-

> DIAGNOSIS OF CANCER OF THE UTERUS.-DR. H. HANDFORD reports the following interesting case:

M. T., aged 24, was admitted into the Nottingham Her family-history was good. Menstruation commenced at the age of 12, the flow lasted four days, and recurred every month. She was married at 15; miscarriages at about the third month; the last five In one case of twelve years' duration pyridine years ago, since which time she had been regular. caused nausea and vertigo after eight days of treat- She first noticed a fœtid vaginal discharge about six ment, which necessitated its discontinuance, although weeks before admission, and a little later saw Dr. great relief was obtained. Nausea I have not seen; Truman at the Nottingham General Dispensary, who vertigo but once. In one or two cases where the ex- diagnosed cancer of the womb. She never had any pectoration had been purulent it lost that character rash on the skin or falling out of the hair, and had no after the inhalation. All unpleasant symptoms seem syphilitic eruption. On vaginal examination, the to be confined to cases with long-standing emphysema, cervix was found indurated, enlarged, ragged, and or valvular or degenerative heart disease, with small, excavated so as to admit the index finger for about irregular pulse. In young, robust people with "sim-three-fourths of an inch. The uterus was somewhat ple " pulmonary asthma there seems to be drowsiness restricted in movement, but the fundus was not enlarged. The patient was also seen by Mr. Wright, the Since these observations were made I have noted, senior surgeon, who confirmed the diagnosis of cancer.

The patient left the hospital, and died eighteen

The diagnosis was between carcer, sarcoma, and syphilis. The ravages of the latter may be very ex-Pyridine is not to be classed as a curative agent, tensive, but are stated to be limited to primary ulcers Most likely its greatest value will be seen in cases of taking on a phagedaenic character. There was no simple or nervous pulmonary asthma, when the iodine evidence of syphilis in this case. Sarcoma is said preparations cannot be borne, or nitro-glycerine and almost invariably to take its origin from the lining sodium nitrite are contra indicated. Although in the membrane of the body of the uterus, and not to combronchial or catarrhal forms of the disease the relief mence in the cervix. The microscopic examination of the paroxysms has been marked in ninety per of the portion removed did not suffice to determine cent. of the cases treated, of the remaining number the exact nature of the growth. The fragment was nearly all had emphysema of long standing. In necessarily small, was infiltrated with inflammatory asthma occurring in advanced phthisis the drug should materials, and consisted in large part of vascular be given with care on account of the small amount granulations. These latter cover the surface of ulcerof lung tissue left unaffected, especially where there ating new growths, are an important source of the is a great degree of consolidation with fibroid in dura- hæmorrhage, and, in many cases, differ very little in tion, when, perchance, the spasm may be relieved, structure from healthy granulation tissue; though, in but few air vesicles remain in condition to respond. others, "cell-nests," or other characteristic structures, may be found. For these reasons, I have come to I have used pyridine in several forms of dyspnœa the conclusion, after many trials, that negative reoccurring in different diseases without much benefit. sults of the microscopic examination of scrapings or In phthisis the recurring dyspnæa and orthopnæa are small fragments by no means disprove the malignant relieved during the period of inhalation only, return- nature of the growth. - British Medical Journal,

THE FUNCTIONS OF THE CORPUS STRIATUM. istered with a certain degree of caution until its ac- HERRN BAGINSKY and CURT LEHMANN brought before the Physiological Society of Berlin, at the meet- one behind, and knotted betwixt the fixed elbow and ing on November 13, 1885, the results of their re- the body, and then cut off short. The (b) ends were searches on the functions of the corpus striatum, then again brought round the body over everything, They remark that as these organs lie deeply embedded and finally knotted in the hollow above the fixed elin the brain they cannot be reached without consid- bow. Wadding was then inserted under the knots to erable damage being inflicted on other parts, and prevent them from galling, and the hand against the they took pains to adopt a method which should min- chest was secured to the length of bandage, passing imise this injury. They found the plan which gave over it by means of a strip of calico passed round the most exact and uniform results was to plunge a both. The advantages claimed were these: 1. There fine glass tube into the corpus striatum and place the was no necessity for special apparatus; 2. The arm other extremity of the tube in connection with an exhausting syringe, by which the substance of the ing was permanent. The method had been used in corpus striatum could be sucked out. The experi-numerous cases with the best results.—British Medments were made on rabbits. If that part which pro- ical Journal, March 13, 1886. jects into the ventricle were removed, the phenomena presented were that the fore and hind limbs of the opposite side were extended if the animal were previence of a few scattered smooth muscular fibres in the ously in the sitting position. The extremities, and kidneys has been noticed by several observers, and especially the anterior limbs, could easily be placed especially by Henle and Eberth; but Dr. Jardet, in anomalous positions, in which they remained till a of Vichy, has, in a short memoir contributed to the stronger stimulus was applied. The movement of the Archives de Physiologie of February 15, shown that extremities offered a certain resistance to the hand of there is a regular system of such fibres. Most of the the operator, which was greater than that of the op-posite side. No motor defect was observed when is present in the pelvis and calyces, the origin of which the animal ran or made other voluntary movements. is referred to the double muscular layer of the walls The temperature of the body remained normal, or of the ureter. Henle describes a special muscular only rose slightly and at a late period. The animal annulus, composed of longitudinal and circular fibres showed great excitability and much tendency to fear around each papilla, lying just beneath the membrana upon various sense impressions, making energetic propria. The longitudinal layer ceases at the plane efforts to escape by jumping from side to side. When of the floor of the pelvis; the circular layer may be the brain substance was removed down to the corpus traced some distance into the renal substance. striatum, without injury to that body, the same symp-function of these fibres is to drive the urine forwards toms were observed, except that the rise of temper- from the papilla into the pelvis. Eberth found, in ature was more common and greater. The authors man, a plexus of unstriated muscular fibres with large of the memoir therefore arrive at the conclusion that meshes on the surface of the kidney. Some of these the functions of the corpora striata do not differ materially from those of the superjacent brain substance. The system of fibres described by Dr. Jardet were -Lancet, March 13, 1886.

At the meeting of the Manchester Medical Society, view, was in transverse and verticle sections of the on February 17, Mr. C. E. RICHMOND demonstrated pyramids of Malpighi. They occupied the perivasan easy method of treating this injury. The position cular conjunctival sheath of the vessels, and never adopted was similar to the French one; the palm of extended far amongst the renal tubuli. The fibres the hand of the injured side being laid flat on the are grouped into small fasciculi, which spring from chest. The best position for adapting the ends of the pelvis and run parallel to the larger arteries and the fragments was first ascertained by abducting the veins, but do not constitute a complete sheath to any elbow from or approximating it to the sternim. A piece of broad strapping was passed round both arm hydronephrosis, and in all chronic inflammations of and body, to fix it in the required position. A piece the kidney-Lancet, March 13, 1886. of calico, twelve inches broad (more in a big adult), and in length sufficient to go twice round the body, lay next the body, were taken one up in front of the ten years been constantly in the habit of administer-chest, over the flat hand, and the other up behind. These were then knotted together behind the sound combination to produce regular uterine contraction

Unstriated Muscle in the Kidneys.—The presfirst noticed by him in pathological specimens, but were afterwards found to be present in the normal METHOD OF TREATING FRACTURED CLAVICLE. kidney. The situation, when they came clearly into

STRYCHNINE IN POST PARTUM HÆMORRHAGE-In was torn longitudinally, so as to make a four-tailed a note on this subject Mr. F. H. V. Grosholz says: bandage, leaving about the middle eighteen inches Though I have not made any trial of a course of untorn. This centre part was then grooved round strychnine for pregnant women, to prevent the octhe elbow, and the two lengths of the band (a), that currence of hæmorrhage in labor, I have for the past shoulder, the other ends being meanwhile held out of in these cases is a mixture containing fifteen minims the way. The other two lengths (b) were taken of tincture of nux vomica, fifteen minims of tincture round the arm and body in front and behind, and also of opium, and half a drachm of ammoniated tincture knotted behind and below the sound shoulder. The of ergot. I have almost invariably had most satis-(a) ends were then brought down, one in front and factory results with this dose. Nux vomica, through tarding the circulation; nor is it improbable that the brain.—Lancel, March 6, 1886. exaltation of the nervous system produced by its administration renders the action of the ergot more prompt and effectual. The object I had in view in adding the opium was mainly to prevent irregular or spasmodic contraction of the nterus, and also to allay the excitement frequently present in these cases. have found the preparation of ergot here mentioned particularly reliable, and its stimulant effect is of decided advantage. In abortions and miscarriages, I have also had satisfactory results from the administration of this mixture, given frequently and in smaller doses. In future cases of unknown hæmorrhage tendency, I intend to try the effect of a course of strychnine, and expect that benefit will be derived from this anticipatory treatment.—British Medical Journal, March 13, 1886.

Belladonna Inhalation in Acute Bronchitis. —Mr. N. E. Davies says in regard to this subject: In acute bronchitis, I believe the dyspnæa is caused more by the contraction of the muscular tissue of the air-cells due to the irritation caused by the bronchial inflammation, than by the viscid mucus secreted; and, acting on this belief in a case 1 had occasion to treat a few days ago, where the dyspnæa seemed likely to terminate life, I gave a grain of extract of belladonna in half an ounce of water, by means of a Dr. Seigel's inhaler. After the patient had inhaled this solution for a few minutes, the breathing became quiet and easy; and before the half-ounce was exhausted, the patient was asleep. By repeating this remedy every few hours, with a stimulating system of treatment by the mouth, the patient, an old lady aged 75, soon passed the dangerous stage, and is now recovering.

I have often used this method of treatment in asthma with magical effect, and can strongly recommend its trial in the early state of acute bronchitis, as I have found it marvellously successful. It has the advantage of the ordinary bronchitis kettle, that it moistens the air of the sick-room, and administers a powerful remedy at the same time.—British Medical Journal, March 20, 1886.

EXPERIMENTAL AORTIC REGURGITATION.—By lacerating the aortic valves by the aid of instruments passed into the aorta through the carotid artery, M. François Franck has been able to study the immeaortic regurgitation. pertrophy. He also explains the danger of syncope January 15, 1886.

its alkaloid strychnine, has the direct and almost im- of cases of aortic incompetence by the excessive mediate effect of producing muscular contraction—and prolonged distension of the cardiac cavities, as especially strong in paralyzed parts-and also of re- well as by the depression of the arterial tension of

> THE DIGESTION OF MILK.—DR. M. REICHMANN draws the following conclusions from a number of elaborate experiments as to the digestibility of milk in the human stomach (Deutsche Med. Zeitung, No. 82, 1885):

> 1. Boiled milk leaves the healthy stomach more rapidly than an equal quantity of unboiled milk.

> 2. The digestion of boiled milk is more rapidly accomplished than that of unboiled milk.

> 3. The coagulation of unboiled milk in the stomach is complete in five minutes.

4. The coagulation is not caused by the acid of the gastric juice, but by the influence of a special ferment (milk-curdling ferment).

5. The acidity of the gastric juice is at first due almost solely to lactic acid, and, later in the process of digestion, to the presence of hydrochloric acid.

6. Hydrochloric acid first appears in perceptible amount forty-five minutes after the ingestion of half a pint of milk.

7. For the first hour and a quarter after the ingestion of milk the acidity gradually increases, and then decreases, until the milk has entirely left the stomach.

8. The curds of casein in digestion of boiled milk are much softer than in the case of uncooked milk .-Therapeutic Gazette, March 15, 1886.

THE URINE IN PUERPERAL ECLAMPSIA.-M. DOL-ERIS has found that some specimens of the urine of patients with puerperal eclampsia give, on drying, crystals whose composition is at present undetermined, but which are slightly soluble in alcohol and soluble in acidulated water, and a somewhat concentrated solution of which injected into animals killed a rat and three sparrows, while comparative experiments made with a portion of solution containing no crystals produced no effect. M. Doleris found a normal amount of nrea in the blood of two patients dead of the disease, but an increased amount in that of two others who were cured. In one case only were soluble and toxic ptomaines met with. He believes that puerperal eclampsia is of an infectious nature, for it is not only the kidney which is affected but other organs, the liver in particular presenting characters more or less allied to those noted in acute yellow atrophy.—Lancet, March 13, 1886.

BORACIC ACID IN DIABETES MELLITUS.-MR. F. diate and remote effects of this experimental form of A. Monckton reports in the Australasian Gazette In some cases death super- (October, 1885) a case of a boy, aged 14, suffering vened rapidly, especially when the heart was diseased from diabetes mellitus, with all the symptoms in an previously. If the animal survived, the arterial ten- aggravated form, who was apparently cured by the sion, at first lowered, mounts again, and the heart use of boracic acid in 7-grain doses three times daily. becomes hypertrophied and its vascular activity is At first there were no stringent dietary regulations, According to M. Franck the excessive and even in the later part of the treatment only sugar, work of the heart is not to be solely attributed to the potatoes, and oatmeal were forbidden. Bread was aortic reflex, but also to an irritation of the sigmoid eaten at the meals in the ordinary way. He gradually region, on the ground that slight lesions or a superfi- gained in weight, his health improved, and the sugar cial irritation of this region give rise to a similar hy-disappeared from the urine.—Therapeutic Gazette,

#### THE

## Iournal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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#### SATURDAY, APRIL 10, 1886.

#### DIAPHRAGMATIC PLEURISY.

In the American Journal of the Medical Sciences, for April, 1886, Dr. Frank Donaldson, Jr., of Baltimore, gives a most interesting study of this rare affection. As is often the case when we come to ively (except Hermil) 3, 1, 1, and 9 cases, all ending look up the literature of some medical subject, we in recovery. Its onset, with chill, pain in the side, find that this affection was very accurately described by Galen, at least in so far as the peculiar character of the respiration and the retraction of the hypochon-retracted abdomen, show that the diaphragmatic driac region are concerned; though he supposed that pleura is affected. It is unilateral until the third day, the seat of the affection was in the muscular structure and not in the serous covering. The disease invasion of the second side is not accompanied by was mentioned by several writers in the seventeenth great pain, and all the symptoms are less severe than and eighteenth centuries, but in an obscure manner, when the first side is affected. It is a rather singular and it remained for Andral to publish, in 1823, the fact that the pleurisy disappears first from the second first definite observations of the affection, under its side, and the extension of the inflammation seems to proper name diaphragmatic pleurisy. His paper was lessen the symptoms. The effusion rises to a higher published in the Archives de Médecine, and in the level on the second side, though the symptoms are following year, in his "Clinique Médicale," he gives a record of five cases. Thirty years after the appearance of Andral's paper Guéneau de Mussy published an elaborate monograph on the subject, in the same journal in which Andral's first paper had appeared.

Dr. Donaldson's case, on which his paper is based, was that of a man of about 40 years of age. He had been sick for nine weeks, the illness having begun within two or four weeks. with a chill, "followed by an intense pain referred to the lower intercostal region, more particularly on the atic pleurisy is not so uncommon as is generally supright side, with great and increasing difficulty of resposed. The number of cases on record is somewhat any extra motion." There was an incessant dry affection is usually ushered in by a chill of greater or

cough, with dyspnœa and anxiety of countenance. The abdomen was retracted, the diaphragm almost immobile, and the respiration almost entirely costal. There was some dulness around the lower part of the chest, especially posteriorly on the right side. Pleural friction sounds were heard only on the left side. On the right side the inflammation had extended to the lung structure and set up a localized pneumonia. Anteriorly and posteriorly were points painful on pressure. The diagnosis was diaphragmatic pleurisy of tubercular origin, with slight effusion on the right side. The patient rapidly grew worse, the pneumonia was not resolved, and the lung began to break down. The patient died, but the record does not state at what time after the commencement of the disease.

Besides the serious and more rare forms of diaphragmatic pleurisy, there is a form called acute benign, first written of by Bucquoy, in his "Lecons Cliniques" in 1873. It always tends to recovery, and seems to be a distinct form of diaphragmatic pleurisy. Hermil, Bouchut, Monod, Robert and Fiessinger agree with Bucquoy, and report respectand fever, is similar to ordinary pleurisy, but the painful spots and radiating pains, with tender and and then extends to the opposite side; though the here less marked. On the first side there is usually some retraction of the base of the lung on account of the fluid between it and the diaphragm. On account of the retractility of the lung, and the drawing up of the fluid with it, there may be signs of extensive pleuritic effusion, and an erroneous diagnosis is possible. This effusion usually disappears without surgical interference, and the cases result in cure

Andral, de Mussy and others think that diaphragmpiration. He had been, almost from the first, unable less than one hundred, but the apparent rarity may to lie down, sitting always with the body bent for- be due to errors in diagnosis and failure to record ward, and his hands pressed to the side to prevent cases when seen. Though the onset is variable, the

less violence, followed by fever and sweating. When are the frequency and shallowness of the respirasecondary pleurisy occurs in the course of acute tions; respiration is entirely costal, and confined to or chronic disease it is marked by an increase in the upper part of the chest; and in a case reported the fever, or a second chill; but the pain and other by de Mussy it was unilateral. The number of characteristic symptoms attract attention chiefly, respirations is enormously increased, Hayden and "Intense pain in the side and constriction of the Graves reporting cases in which the number was 80 pains of diaphragmatic pleurisy are characteristic, pleurisy there is, according to Chaffaud and de and are to be referred to the terminal filaments of the Mussy, a lowering of the twelfth rib, its anterior end phrenic nerve;" what Hermil calls douleurs par being lower than that of its fellow on the opposite propagation. Many of the peculiar symptoms found side. Hiccough, nausea and vomiting are often presin connection with the affection are explained by a ent, as might be supposed. Delirium, which at one reference to the anatomy and distribution of the time was supposed to be diagnostic, is thought by de phrenic nerve. The pains extend over a large sur- Mussy to be more frequent than in costo-pulmonary face—"over the whole hypochondriac region and pleurisy. The affection is to be diagnosticated from over both flanks to the inferior dorsal region behind, following the line of the costal insertions of the diaphragm, and often along the border of the sternum and under the lower insertion of the sterno-cleidomastoid muscle, and over the shoulder and neck." They may be spontaneous, but are always provoked by pressure, increased respiratory movements, hiccough, vomiting, etc. The favorite seats of pain, according to de Mussy, are over the epigastrium, at the points of insertion of the diaphragm; in the eleventh interspace behind, near the spine; along the course of the phrenic nerve; and at the bouton diaphragmatique, a point one or two fingers'-breadth from the middle line, on a level with the tenth rib, or at the intersection of a line drawn from the osseous part of the tenth rib and one drawn along the border of the sternum. The pain is always very great at this point, and is due, according to him, to the greater play of the rib, and the consequent friction against the inflamed nerve. The pain along the course of the phrenic nerve is rarely spontaneous, but is always evoked by pressure, especially where the nerve runs under the sterno-mastoid muscle.

The douleurs par propagation run along the sides as far as the iliac fossæ in some cases, though they are usually more intense in upper part of the body; and are sometimes felt with great intensity in the muscles having nervous connections with the cervical and brachial plexuses. As regards the pain felt over the liver and spleen it is difficult to say whether it is due to pressure of those organs on the inflamed muscle, as Dr. Donaldson thinks, or to a local peritonitis from extension of inflammation. Pain is more often present in the hypochondriac region than in any other locality in this affection. The attitude of a person suffering with this disease is very character- tea-poisoning occurred, but in which he was not inistic, and is well shown in the case recorded. The clined to attribute the symptoms to the abuse of tea.

ower part of the chest, soon follow the chill. The or 100. When effusion takes place in diaphragmatic rheumatism of the diaphragm, inflammation of the muscular structure and neuralgia of the diaphragm. costo-parietal pleurisy, pericarditis, hepatitis, and circumscribed peritonitis; but it seems that proper care should prevent any error in diagnosis unless the disease be complicated with some one of these affections.

#### CHRONIC TEA-POISONING.

At various times during the past few years medical men, chiefly in England, have called attention to the deleterious effects of tea upon those who partake too freely of this beverage. But though some attention has been called to the subject very little has been written that is at all definite, in the way of substantiating assertions by clinical proof. The paper on "Chronic Tea-Poisoning" read by Dr. WILLIAM N. BULLARD before the Suffolk District Medical Society on March 10, in which he gives a record of five cases may therefore be regarded as a valuable contribution to a comparatively obscure subject.

In his paper Dr. Bullard deals only with cases of subacute and chronic tea-poisoning, leaving out of account all acute cases and those of professional tea-tasters. These have already been fully written of by Morton, in a paper on tea-tasters, based on five cases, in which he gives the symptoms of "continued and immoderate use of tea" as headache, ringing in the ears, tremulousness, nervousness, exhaustion of mind and body, with disinclination to mental and physical exertion, increased and irregular action of the heart, and dyspepsia. It will be seen that these symptoms correspond very closely to those of chronic tea-poisoning. Dr. Bullard's statistics are based on 163 cases of tea-drinkers, and he also examined, for the purpose of differentation, 158 cases in which symptoms of symptoms which are most distinctive and prominent In analyzing his cases he follows the order of symp-

toms given by Morton, and considers the frequency cent. Vomiting occurred in 17 per cent. (twentyexposure to a hot sun.

toms under the general head of nervous phenomena. cording to Dr. Bullard's account, occur very frequently Tremulous, according to Dr. Bullard, is not uncom- in the cases under consideration. Loss of appetite mon, and it probably occurred in many cases in which occurs in a greater percentage of cases (61 per its existence was not noticed or specified. In other cent.) than any other symptom. Dyspnœa was prescases it was probably given as "nervousness." Tre- ent in twenty-three cases, "but seems usually to be mor was noted in six cases, "but in only one of these secondary to anæmia or cardiac weakness." In two does is seem fairly attributable to the tea;" and he cases it was due to pulmonary disease, and in nineconcludes that tremor is not an ordinary symptom of teen was accompanied by palpitation. It is somechronic tea-poisoning. "Nervousness" was prom- what surprising that anæmia was present in only 18 inently noticeable in 16 per cent. of the cases, its per cent. of the cases. We may therefore put the total absence in one case. "Slight degrees of nerv- comparative frequency of symptoms in chronic teaousness probably exist in nearly all these patients, poisoning as follows: anorexia 61 per cent; dyspepsia but we cannot therefore conclude that it is the direct and pain in the epigastrium 52; palpitation 49; conresult of tea." In many cases it is doubtless due to stipation 47; nervous symptoms 42; headache 30; the digestive troubles. As regards the symptom "ex- pain in left side 21; nausea 20; vomiting 17. "All haustion of mind and body, with disinclination to these symptoms are common in many other diseases, physical exertion," Dr. Bullard says that it "is of too but it is the special combination which exists here, indefinite a character to be susceptible of accurate and above all the predominance of the nervous group, determination in the class of cases with which we which enables us to form our diagnosis. It is evident have to deal. Moreover, its liability to occur from that there exists many cases of this affection in which other causes renders it impossible to determine how no diagnosis could be arrived at from the symptoms far it is due to tea." We have noticed this symptom alone without the history, but I firmly believe that in prominently in tea-tasters, however. In the cases the majority of the cases, a presumption in favor of examined general weakness was mentioned in 8 per this affection is justifiable from the sole evidence of cent. Increased and irregular action of the heart the symptoms." does not appear to be a necessary symptom of chronic tea-poisoning. Palpitation, which was present in al- gradually increasing difficulty of digestion, followed most all severe cases, occurred in 49 per cent., and by general restlessness and excitability of the nervous irregularity of the heart in six additional cases.

moderately seems to have been more frequently "Palpitation, which has previously been slight, now noticed than any other by foreign writers, and Dr. becomes distressing, and is not infrequently accom-Bullard says that "the occurrence of gastric or in- panied by dyspnæa." Up to this point the patient testinal symptoms with chronic tea-poisoning is almost may declare that her health is good; but in the more universal;" but that in many cases these do not as-severe cases the symptoms now become more prosume a very prominent form. He has noted those nounced, and usually point to digestive troubles or cases only in which there was "a distinct sense of hysteria, or both. "Whenever a marked gastralgia oppression or fulness in the epigastrium after eating," exists without evidence of organic disease, wherever Of these there were seventy-five cases, or 46 per we find frequent vomiting apparently unaffected by cent. Pain in the epigastrium occurred in 9 per food and unaccompanied by gastric catarrh; in other

of the different symptoms, in order to see what eight cases), and nausea in 20 per cent. In thirteen combination of these may be considered as charac- cases the vomiting was combined with nausea; in teristic of tea-poisoning. Headache occurred in 30 twenty-two cases it was noted under dyspepsia. per cent. of the cases, hemicrania in 11 per cent. Nausea was reported alone in five cases, in three In the cases in which the headache was bilateral it of which it occurred with headaches, in one there was situated generally in the forehead and temples, was trigeminal neuralgia, and in one it was prob-"Ringing in the ears" was not frequent. It was noted ably due to the use of tobacco. Pain in the left in but three cases, in two of which it was due to dis-side, or in the cardiac region, which is a frequent ease of the ear, while in the third case it accompanied symptom in women, and probably due generally to a congestive headache supposed to have been due to the gastric condition, occurred in 21 per cent, of the cases. It is surprising to note that serious intestinal We may very properly classify four of the symp-disturbances, and especially constipation, do not, ac-

The first evidence of chronic tea-poisoning is a system, by disinclination for food and headaches. The symptom dyspepsia in those who use tea im- Constipation is present in almost one-half the cases.

words, wherever we find evidence of a true gastro- Dr. Robert T. Davis, member from Massachusetts, regard to the condition of the blood-vessels in this of the whole House on the State of the Union. affection and it is reasonable to suppose that no great would be an interesting subject for investigation. . . . ing are, so far as my observation show, always functional. Where organic symptoms exist they are not duties in that direction. connected with tea.

and is very common among factory-operatives and with the consent of the Secretary of the Interior. seamstresses. We desire to lay special stress on this at rest."

#### PROPOSED NATIONAL BUREAU OF PUBLIC HEALTH.

introduced into the House of Representatives by a law.

neurosis, or if increased excitability of the gastric "to prevent the introduction of contagious and innerves greater than could ordinarily be accounted fectious diseases, and to establish a Bureau of Public for by by the condition of the stomach, whether dys- Health," which was referred to the Committee on pepsia be present or not, if the agency of alcohol Commerce, subsequently reported by the Committee can be eliminated, we should always suspect tea- with some amendments, which are included in the poisoning. . . . . We have at present no evidence in present copy, and it was referred to the Committee

It will be seen that the Bill simply provides for the variation from the normal will be found, inasmuch as establishment in the Department of the Interior of a the trouble is so chronic and in many cases so slight. Bureau of Public Health, under the management of Whether or not any increase exists in the excitability a Commissioner of Health with an annual salary of of the vaso-motor nerves under these conditions \$4,500; with all the necessary powers and duties to secure the establishment of an efficient and perma-It is of special importance to remark that the affec- nent National Bureau of Public Health, to take the tions of the nervous system due to chronic tea-poison- place of the old National Board of Health, and relieve the Marine Hospital Service from further

The provisions of the Bill are simple and not likely The average amount of tea taken by those who to bring the Bureau in collision with the State Boards showed symptoms of poisoning was 4.8 cups per of Health or sanitary regulations, and yet the powers diem. This, however, cannot be taken as a standard conferred are sufficient for the establishment and for making a diagnosis in any given case. The age maintenance of all such necessary measures as are and physical condition of the patient are very im-calculated to prevent the importation of contagions portant considerations. Youth, weakness of any and infections either by persons or goods; for the kind, and anæmia, naturally render the system more collection and publication of information concerning susceptible to any toxic influence; "and hence we the prevalence of epidemic and infectious diseases in find that even those adults who have for years been all foreign countries with which we have commercial accustomed to take a moderate amount of tea with-relations; and for prosecuting of original scientific inout evil effects, if for any reason they become anæmic, vestigations concerning the nature, origin, and preif their strength be exhausted by excessive work or in vention of contagious and epidemic diseases both in other ways, immediately begin to show toxic symp- the United States and in foreign countries. The toms, although the amount of tea ingested has not Commissioner is also authorized to employ such assistincreased. This is well shown in cases of chlorosis ants, clerks and scientific experts as may be necessary,

The introduction of this Bill is the first move we fact, which is one cause of the non-recognition of the have seen relating to health or sanitary regulations toxic agency of tea by the patient. That deprivation by the general government, which was in the right of fresh air and want of sufficient food should cause direction and founded on correct principles. All the same result is only to be expected, not only be-propositions hitherto made to establish National cause in themselves they tend directly to produce Boards of Health consisting of several members, weakness and anæmia, but also because the toxic representing different sections of the country and products are not so readily eliminated. It is for the somewhat different interests, have two radical defects. same reason that more tea can be drunk without evil First, they are too cumbrous, it being necessary that effect by persons when working or taking exercise their most important duties should be performed while than could be taken by the same person when idle or in session; and second, they inevitably contain more or less elements of discord. A permanent government Bureau under an intelligent Commissioner, with all necessary assistants, avoids both these evils and affords the best prospect for promptness and efficiency Under this head in another department of THE of action. We hope, therefore, that the Bill will JOURNAL will be found a copy of the Bill recently speedily pass both Houses of Congress and become

#### IMPORTANT NOTICE.

We have received from the Treasurer of the American Medical Association, the names of one hundred and fifty-three members of the Association who have not paid their annual membership dues since 1883. Consequently their names have been suspended from the mail list of THE JOURNAL, and will remain so until we are notified by the Treasurer that their dues have been paid. Any of them who choose to pay their arrearages to the Treasurer before June 30th, when the current volume closes, can have their files completed. We have also received, from the same officer, the names of two hundred and one members who have not paid their dues for the current year, now nearing its close. All members who attend the annual meetings of the Association are required to pay the membership fee in advance, before they can take a seat in the meeting, and it is manifestly unfair for those who do not attend the meetings to neglect the payment of their annual fees until the end of the year, or longer, and still be receiving THE JOURNAL the same as those who pay promptly. As many of those who are still indebted for the current year may pay up at the coming meeting at St. Louis, we have thought best not to suspend their names from our mail list until after that meeting. But the Association should adopt a rule, or by-law, making all annual dues from members payable before the 1st of July of each year, and in default, their names to be liable to suspension from the mail list of THE JOURNAL.

#### INJUSTICE TO DR. FANCOURT BARNES.

In the April, 1886, number of the American Journal of the Medical Sciences is a review of the "System of Obstetric Medicine and Surgery" by Drs. Robert and Fancourt Barnes. The writer of the review says, page 522: "Unfortunately, there is a little matter relating to the publication by Fancourt Barnes of a German Medical Dictionary, which does not dispose the profession of this country kindly toward him. That this little volume, published as his, was boldly copied from one the production of an American physician, is only too evident from the fact that the very errors of the one duly appear in the other." The reviewer gives the name of the American physician as George R. Cutler instead of Cutter! From this it ter's book. Dr. Cutter's Dictionary contains about tion. 13,000 words, and that of Dr. Barnes about 22,000; from which it seems that he is not familiar with Barnes's book! How a book can be "boldly copied" from one only a little more than half as large prominent nodule, about one and a half centimetres

does not appear. All of the errors in Dr. Cutter's Dictionary do not appear in Barnes's Dictionary; very many were corrected. But the fact that the two books contain the same errors in many places proves nothing. Dunglison's Medical Dictionary contains an error that is to be found in Cotgrave's French and and English Dictionary, published in 1660; and our large unabridged dictionaries contain propagated errors sufficient to convict the authors of plagiarism from any one of half a dozen lexicographers, if this be sufficient evidence for conviction. Of these we need only cite Richardson's Dictionary, Todd's Johnson, Webster and Worcester. As a matter of fact, too, Barnes's Dictionary contains errors in words that are not in Cutter's Dictionary at all, and other errors in words that are correctly given in Cutter.

Great injustice in regard to this matter has been done Dr. Barnes in this country, as this same fable was put in circulation when his book first appeared. We can give the names of several German students, prominent physicians in this country, who believed it and would not get the book. Some had never even seen it until their attention was called to it, but they knew the story; though it is far superior to Dr. Cutter's Dictionary. An importing firm in the East brought over a lot of about 500, and had sold a few when they received a note containing this charge. They bought up the few copies that had been sold, so far as they could, and shipped the whole lot back to England without even making an investigation. We have no quarrel with anyone in this matter, but make this statement in simple justice to one who is not in this country to defend himself.

## SOCIETY PROCEEDINGS.

#### OBSTETRICAL SOCIETY OF PHILADELPHIA.

Stated Meeting, Thursday, March 4th, 1886. THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR. MENSTRUAL EPILEPSY.

Dr. Howard A. Kelly exhibited recent specimens of tubal and ovarian disease, removed within the past two weeks. The first specimens to which he called attention were removed from a patient 21 years of age who has suffered from an aggravated menstrual seems that the reviewer is not familiar with Dr. Cut- epilepsy from the very first appearance of the func-There was no difficulty whatever in the removal through a small incision into which two fingers could just be slipped. The whole operation, from beginning to complete closure, took but twenty-four minutes. The right ovary was deformed by a very in diameter, which burst on removal, discharging a symptoms. Certainly the application of remedies watery fluid, and was shown by its lining membrane such as iodine to the fundus of the vagina and the to be the last corpus luteum.

drosalpinx, with Congenital Deficiency of Tubes and influence in attenuating adhesions, promoting absorp-Broad Ligaments. In this case there was malformation of lymph and possibly, if not probably, in cure tion of the distal ends of the tubes, broad ligaments of the patient without operation. and ovaries. The left tube is as large as a bologna sausage. It was brought into view with great difficulty after separating many light adhesions to the absolutely in every case. He believes that we will pelvic walls; while the isthmus is much enlarged and thickened, the great distension is at the involuted ampulla. The operator was materially assisted in which still exist or have returned, and for the relief of bringing this tube into view by upward pressure on which operation had been performed; just as we have the cervix by a hand in the vagina. The fimbriated been called upon from time to time and pestered by extremities were lost in a mass of vascular and fibrous those old cases of chronic hypertrophy and retroflexion tissue forming a broad ligament, and deep down in of the uterus with pelvic adhesions. He has now this were imbedded the somewhat hard, elongated, under his care one of his own cases upon which he large ovaries. It was utterly out of the question to attempt a removal of the ovaries, and any such operation would have been of a very desperate character, sions. The patient made a good recovery and apdistended with watery fluid.

burst as he was removing it, discharging four ounces for the same symptoms of which she had complained of tarry blood. It was very adherent, having several before the operation. He is an advocate of the attachments to intestine and omentum. The dilata- operation in some cases, but he pleads for due delibtion is here, too, seen to be at the ampulla, which eration and the exhaustion of careful palliative and extended far beyond the ovary back into the cul-de-preparatory measures before operation is resorted to. sac. The ovary is embraced by the isthmus, and Many cases will get well without operation. Some presents a curious appearance as it lies, about twice will not be benefited if operation is performed, and the normal size, imbedded in a sort of ball and socket there is some danger in laparotomy, although Tait manner below the isthmus. Where it is laid open the has had such remarkable success. tube is converted into one large sac.

DR. JOSEPH PRICE remarked that the tube was so benefits of rest and treatment before operating? large that the nterus had been pushed aside by it. Great care was required in its removal.

since he should not have recognized such a condition, but now he can; the result of experience in bimanual examination. He would like to hear further on this point of diagnosis.

Dr. B. F. Baer thought it very unfortunate that the ovaries as well as the tubes could not have been removed in the case just reported by Dr. Kelly, for their presence will probably result in the usual monthly congestion, and consequently the pain and other pelvic distress for the relief of which the operation was performed, may continue to exist. There are several cases on record in which the tubes were removed and the ovaries allowed to remain, but the results have not been reported. He could see no reason why this should be done unless the ovaries the only delay he allowed was to put the patient in cannot be found, or some other insurmountable difficulty presents itself. He fully believes in the ad-external and internal, treatment is utterly futile, and vantages of prolonged and thorough palliative treat- never does more than secure temporary palliation. ment in these cases. Benefit usually follows, and sometimes cure; at least operation is rendered less in a skilled bimanual examination, by which he always difficult and more likely to be followed by recovery accurately mapped out all the peculiarities of the case

interior of the uterus, with prolonged rest and gen-The second specimens were rare examples of Hy- eral building up of the system, will have a strong

It should not not be forgotten that removal of the tubes and ovaries in these cases does not cure be called upon in a few years by many of these cases which have been operated upon to relieve symptoms nor did he, Dr. Kelly, regret this in the least, as he peared to have been cured, but the symptoms have had planned his operation for tubal disease, to which returned, and she is now complaining almost as much he attributed all the patient's sufferings. The right as before the operation. She also has periodical tube was as large as his middle finger and was also attacks of metrorrhagia. This, of course, is an unusual case. He has another patient under his care, The other specimen was a very large Hæmato-Sal- who was operated upon in a neighboring city by repinx. This tube, the left, about four inches long, moval of the tubes and ovaries, and is treating her

Dr. Da Costa inquired if Dr. Kelly had tried the

Dr. Joseph Price said that the recurrence of symptoms seemed to indicate partial removal of the DR. CHAS. HERMAN THOMAS said that some time tubes and ovaries. One of the fundamental rules of surgery is to seek for pus when it is probably present and in all cases to remove it if possible. When the ligatures will cut through the tubal stump on account of its cheesy character, hæmorrhage may be prevented by the application of the cautery.

Dr. Kelly, in closing the discussion, said he did not in the least regret that the ovaries could not be removed, as he had operated for tubal disease, not for ovarian, and he admired the zeal of Schreder, who, instead of always removing the ovary, sometimes resected diseased portions. In all the cases of tubal and ovarian disease upon which he had operated, months and years of careful treatment had been wasted, and now, where he diagnosticated pyosalpinx, the best possible condition for operation. Topical,

of the patient, both from the operation itself and the before operation. If there is rigidity and resistance

it is necessary to etherize, but he has yet to see the case where the presumptive signs were those of tubal and lesser ovarian disease, where the structures could not be picked up between the two hands and outlined. He considers that this tact has been largely developed by persistently examining the condition of the appendages to the utmost possible extent as a routine practice in all cases which come under his notice. Introducing the finger as high as possible, sistence, are matted together with the rectum and by forcing the hand well under the pubic arch, and small intestines. carrying the sensitive pulp up against the post-fornix or either lateral fornix, and then playing up and down with the other hand pressing on the abdomen and creeping a quarter inch at a time, without ever fully relaxing, and letting structures in between roll through the two fingers, and in case of an ovary, running round its whole periphery, or of a tube tracing it up to the cornu-uteri and down into the retro uterine pouch, where it generally terminates, give often most surprising results, and would doubtless, if fully carried out, change hundreds of diagnoses of leucorrhœa, endometritis and flexions with adhesions, to the far more serious ones of pyo- or hæmato-salpinx.

Dr. Joseph Price exhibited some

SPECIMENS OF PYO-SALPINX.

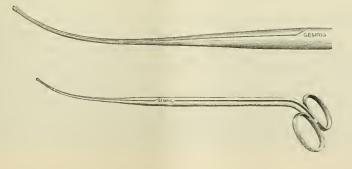
from two patients, and afterwards remarked that Tait and Keith have ended the dark period by showing us how to operate on the abdomen and pelvis their opposed surfaces. It holds securely the smallwithout fear and with little risk. The wonderful ad est pledget of cotton, and by reason of the springy vance in pelvic and abdominal surgery should be character of the beak will permit the locking of the placed to their credit. He believes it is now uni- handles when a full-sized pledget or tampon is placed versally admitted that they have reached the very within its grasp. The point is slightly probed as an acme of perfection. One surely must be a convert extra precaution when introduced to the uterine funto Tait's law to contend with the great difficulties in dus, though a small cotton ball answers all needful pelvic surgery: "That in every case of disease in purposes as a protective tip. I have usually emthe abdomen or pelvis, in which the health is de-ployed the plain point on account of its occupying stroyed or life threatened, and in which the condition less space at the internal os uteri. The beak is is not evidently due to malignant disease, an explor-curved to a shape corresponding very closely to ation of the cavity should be made." Standard works that of Elinger's dilator, and which has been found on ovariotomy dwell at great length on the subject of so generally well adapted to entering the uterus, adhesions as the most important and difficult compli- This portion is electro-plated with gold, when so orcation with which the operator has to contend. In dered (a proceeding of moderate cost and to be short, in pelvic operations the risk and the difficulty commended), as a protective against the corrosive will ever lie in the separation of organized inflamma- action of iodine, iodized phenol, and the like, which tory products. Adhesions, when old, between the so rapidly destroy nickel-plating and corrode polpelvic viscera and diseased tubes, become degenerate polished steel surfaces. The instrument was made and hence easily ruptured. In one case only have under Dr. Thomas's directions by J. H. Gemrig & strong adhesions, deep in the pelvis, stayed his hand. Son, of Philadelphia.

The right tube and ovary adhered strongly to the sac and right side of the uterus, and the whole adherent mass was absolutely inseparable. Again, the rupture of pus tubes or cysts filled with inflammatory, septic or malignant elements, will be followed by serious symptoms. Operation becomes difficult when the ovaries and tubes, tightly distended with pus, and softened through pathological changes, cheesy in con-

Dr. Charles Hermon Thomas exhibited a

UTERINE APPLICATOR AND DRESSING-FORCEPS COMBINED.

This instrument, which is is specially adapted to making applications within the cavities of the neck and body of the uterus, but which is also available for making dressings and applications to the vagina and external surface of the cervix, has borne the test of two years' use. It is in forceps form, the blades are strong and resistent from the handles forward about two-thirds of their length, when they narrow rapidly, so that taken together they become about equal in size to the ordinary uterine sound. This narrow portion, somewhat suggestive of the long beak of the angular ear forceps, is about three and a half inches in length, the tips being roughened on



Some practical points of use may be mentioned: Soiled or medicated cotton is easily removed with strument. the use of one hand only by simply unlocking the handles and wiping the point in a crumpled paper, thus leaving the other hand free for other employment, and avoiding the trouble, the soiling of the removed the previous day. The symptoms had been fingers, and the whittling often involved when the very peculiar and the form of the abdomen was miswire applicator is used. In its use there is immunity leading, there being a deep groove across the hypofrom the rasp action of the closely wrapped cotton of the wire applicator, and also a greatly increased carrying capacity of the cotton for medicated liquid. colon, parietes and bladder, and were old and dense. Moreover, it will be found convenient and desirable Its rapid growth had raised a question of malignancy. to make use of the instrument as a uterine sound A great portion of the tumor was solid. incidentally in certain instances. In my own expeinstruments of this class.

DR. BAER said the instrument presented by Dr. Thomas is a very ingenious one, and will doubtless lopian tube crossed the tumor and made a deep conserve a good purpose where the cervical canal is patulous; a greater quantity of the medicating agent used can be carried to the diseased surface than when the tightly wrapped cotton is used.

DR. J. F. WILSON has nothing to add to what Dr. Thomas has said. He has used one for several months and can agree with Dr. Thomas as to the ease of application and removal of soiled cotton.

Dr. Parish said that the forceps was valuable and would be much used. As an applicator it will be very convenient. A few years ago the sound and way are wrong. Applications to the endometrium ovariotomy. are sometimes needed.

DR. H. A. Kelly said this is a very valuable in-

Dr. Parish exhibited a specimen of

#### OVARIAN TUMOR.

gastric portion of the tumor. Numerous adhesions gave great fixity. These adhesions embraced the

DR. HARRIS remarked that a microscopic examirience it has proved practicable as an applicator, one nation of the tumor should be made. There had fully meeting the needs of most cases; while as a been great difficulty in diagnosis as to the origin and uterine dressing forceps for general use it has been character of the tumor. A slight fluctuation could found so satisfactory as to have superseded all other be detected in the lower portion under the use of an anæsthetic. There had been no uterine symptoms, and menstruation had been regular The long falstriction across its middle.

Dr. Baer did not think rapid growth a proof of malignancy. He had seen five or six cases of very rapid development; one in three months contained a bucketful of fluid. In none of these cases had there been any return or other sign of malignancy. The presence of papillomatous growths within the cyst is no proof of malignancy.

Dr. Joseph Price exhibited a

#### FORCEPS

applications were too much used, but extremes either for the complete closure of the trocar puncture in



#### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, February 24, 1886. THE PRESIDENT, C. H. A. KLEINSCHMIDT, M.D., IN THE CHAIR.

T. E. McArdle, M.D., Secretary. Dr. G. S. PALMER presented specimens of ABSCESS OF THE CORPUS STRIATUM; AND ADHESION BETWEEN THE GALL BLADDER AND THE COLON.

The case to which your attention has been called ing, presents some points of interest both in its his-died many years before she did. Fourteen years

tory and in the appearance presented by the postmortem examination, and may suggest questions and elicit discussions which will be interesting and useful. This case also reminds us of the humiliating fact that we are yet sometimes obliged to depend upon an autopsy for a correct diagnosis of our case.

The patient, Mrs. -, age 66, married and mother of three children, died in the early part of this month, and a post-mortem examination was made by Dr. D. S. Lamb five hours after death. As a child and a young woman this patient enjoyed good health, but she belonged to a short-lived family, she being by the Secretary's cards for me to report this even-the oldest of ten brothers and sisters, all of whom

colon.

for this state of things is, that just prior to the sick-ness spoken of above, gall-stones had accumulated she regained the use of her muscles so that she playin the gall-bladder to such an extent, or of such irried a simple tune on the piano. This paralysis was tating character, as to set up inflammation in that more marked on the right side of the body. The organ, and by contiguous sympathy to induce the small softening found in the left corpus striatum may same in the colon and cause adhesions between them, have been the cause of this paralytic condition. which was followed by an ulcerative opening in the This patient had finally some attacks of bilious vomwalls of each, so that the gall-stones and the bile iting, followed by great prostration; after one of passed freely into the bowel. This may account, in these she went into a comatose condition and died part at least, for the frequent attacks of jaundice of exhaustion caused by anæmia, which was found at which the patient had during the last fourteen years the autopsy to depend upon the atheromatous conof her life. In the healthy or physiological state, dition of the large arteries supplying the brain and bile is not found in the large intestine, and we know other parts of the body. very well that the ascending and transverse colon are abundantly supplied with absorbent vessels so her sickness her pulse was regular, soft and natural; that the bile falling into the colon through this open-only a short time before death did it become small ing would be easily taken up and carried into the and more rapid; and the heart, notwithstanding the general circulation, and thus give rise to jaundice. mitral valve was loaded with atheromatous deposit. About five years ago this patient, apparently from gave no abnormal sounds. I know of no set of symp a severe mental shock, became much depressed; she toms which would enable the most astute diagnoslost her appetite, grew feeble in body, and at times tician to tell what he was dealing with in a case like was a little off in her mind. Tonics, stimulants, and this. tender care all failed to improve her, and travel was and new faces she returned much improved, but not quite well. She had now for nearly two years fre- ogical conditions we could not have done better. quent attacks of jaundice, almost continuous dyspepsia, and some slight disturbance of the mental faculties; in fact, these symptoms continued with variations to the end of life.

mouth and pharynx took on an aphthous condition, uterine hemorrhage and acute peritonitis. complete loss of appetite, but also a loathing of food some days before death. She denied pregnancy. and very imperfect digestion of the little food which passed into the stomach. Under the use of chalybished; bloody fluid in pericardium; heart flabby; old

ago she had a severe and protracted sickness caused natural taste; whether this loss of taste was caused principally by an acute inflammation in the right hy- by a morbid condition of the peripheral terminations pochondriac region. At the time, this inflammation of the gustatory nerves, or whether their deep-seated seemed to pervade the duodenum and the pyloric origins were at fault, it was impossible to tell. About orifice of the stomach. It evidently involved some one year ago this patient's hair began to fall off, so portion of the peritoneum, as the severe pain, rapid that in a few months ever spear had disappeared pulse, tenderness and prostration plainly indicated. Some light is shed upon this part of the case by the autopsy, which discloses a firm adhesion between the hepatic flexure of the colon and the fundus of universalis. No disease of the hair follicles could be desired by the severe that in a few months ever spear had disappeared from the scalp; the eyebrows and eyelashes fell off also, and most of the hair from the other parts of the body, thus presenting a typical case of alopecia universalis. No disease of the hair follicles could the gall-bladder, and an almost entire obliteration of be detected by the naked eye; the hairs seemed to that cyst; in fact, the gall-bladder is reduced to the drop out for want of nourishment, the follicles closed size of a small tube, and extends from the cystic duct up and the scalp became smooth and shiny and reto the fundus of the gall-bladder where it is adherent mained so till death. A remarkable paleness perto the colon, where there has evidently been a free vaded the whole body at this time, giving unmistakaopening, so that that part of the bile which is usually ble evidence of anæmia. About five months ago held in reserve in the gall-bladder has passed directly she began to lese the use of her upper and lower from the cystic duct through the opening into the extremities, so that she was in a very short time unable to stand upon her feet or to feed herself with The most plausible explanation which I can offer her hands. A partial paralysis plainly existed. After

It is remarkable that during all these last years of

The treatment of this case has been principally to suggested. After a short absence among new scenes mitigate symptoms, and it is a pleasant reflection to know that had we had a full knowledge of the pathol-

Dr. D. S. Lamb presented a specimen of

#### EXTRA-UTERING PREGNANCY.

Mulatto woman, age 20, was admitted to Freed-About two years ago the mucous membrane of the man's Hospital, D. C., September 25, 1885, with which continued for a long time, and finally the sur- convalescense she went out of her own accord. Was face of the tongue became ulcerated, and for more readmitted November 27. Died February 19, 1886. than a year that organ presented the appearance of A tumor was recognized above and to left of hyporaw beef. During this time there was not only a gastrium; this partially disappeared quite suddenly

eates, arsenic, mineral waters, bismuth, etc., and nu-firm adhesions of left lung everywhere; right pleuræ merous mouth washes, these ulcers of the tongue contained about a pint of dirty, bloody, purulent healed and the papillæ and mucous surfaces appeared liquid; lung collapsed; abdomen much distended quite natural, but the sense of taste never returned, with gases, contained some bloody liquid; uterus en-She could feel the food in her mouth but it had no larged; left fallopian tube converted into a large teriorly, edges very ragged; fœtus lying in abdomi- parts. The patient was discharged cured in about nal cavity above and to left of uterus. The fœtus, a fortnight. ragged edge of sac, placenta and cord, liver, spleen and kidneys were far advanced in decomposition.

### Dr. I. F. Hartigan presented a specimen of

#### GUN-SHOT WOUND OF THE HEART.

J. C., æt. 14, was shot accidentally on the evening of February 20, 1886. Deceased was going up stairs when the revolver was discharged from the landing above. Immediately he whirled about, fled through the front room about twenty feet, and fell down the porch steps exhausted. He lived about four minutes.

The necropsy showed the ball to have entered the left border of the sternum, on a line with the cartilage of third rib; it then penetrated about the middle of right ventricle of heart, and, passing diagonally downwards, made its exit in the posterior aspect of left ventricle, near the apex; the anterior wound of the organ was an inch in length, the posterior an inch and three-quarters, presenting a chasm-like appearsuccession the lung, liver and pancreas, the ball traversed the psoas muscle, fractured the crest of the ileum, and finally lodged in the glutens maximus, under the skin.

The case is interesting in two aspects: first, on account of the course of the missile, although this may be accounted for in a measure by the relative position of the perpetrator and victim; and secondly, the length of time deceased lived, and the extraordinary physical exertion following an injury of the heart such as has been described.

## Dr. J. Ford Thompson presented

#### AN OVARIAN CYST

from a patient on whom he had operated at the Garfield Hospital. The patient is a Scotch woman, 64 years old, the mother of seven children. Menstruation ceased ten years ago. Up to within the past eighteen months she enjoyed good health. At that time cedema of the left foot and leg was noticed, and soon after the abdomen became slightly enlarged, fact that some months ago he had introduced During the past three months she has been a good at one of the meetings, a man who had been deal confined to her bed and has suffered much from nausea and vomiting.

sac with thick walls; placenta in left anterior por-peritoneal surfaces. This mode of suturing the abtion; this sac had formed old cord-like adhesions to dominal opening also renders the patient less liable intestines, and also recent ones; it had ruptured pos- to ventral hernia from imperfect coaptation of the

#### Stated Meeting, March 3, 1886.

Dr. D. S. Lamb (through Dr. Smith) presented A HEART WEIGHING THIRTY-EIGHT OUNCES.

It was removed from a tall, robust, dark mulatto man, who died February 20, 1886, of acute pericardial effusion. Aortic valve somewhat thickened, left ventricle much dilated. Aorta and branches somewhat atheromatous. Other viscera normal. Kidneys weighed thirteen onnces each.

Necropsy made March 1, 1856, by Dr. D. S. Lamb for Dr. T. C. Smith, on a mulatto woman about 45 years of age. Body somewhat emaciated, abdomen protuberant. Lungs showed firm old pleuritic adhesions and were full of cheesy tubercles and vomicæ. Heart appeared normal; not opened. Liver firm, anæmic; firm old adhesions everywhere. ance from tissue destruction. Having wounded in stomach and intestines generally collapsed and firmly adherent to adjoining viscera, abdominal wall, and tumor. Kidneys showed hydronephrosis, especially marked in left; ureters dilated. Uterus elongated, cavity five inches long; what appeared to be the body was of normal width; what appeared to be the fundus was enlarged by a large fibroid growth with thick capsule, in some places calcareous; its peritoneal covering thick, rough, whitish, dull-looking, and covered with patches of old lymph and many thick vascular bands; posterior and lower portion, left side, showed a large irregular cavity with calcareous wall and cheesy contents; the adhesions were most marked around this cavity. There were several small isolated tumors in left side of body of uterus (?) All the supplying vessels enlarged. Ovaries and Fallopian tubes not identified. Weight of uterus with tumor, sixteen pounds.

#### THE DRUG ALVELOZ.

Dr. J. B. Hamilton recalled to the Society the suffering from a lupoid ulcer of the face. This patient had been treated with applications of alveloz, This case is worthy of record on account of the a drug which is indigenous to Brazil, and is there said very slight degree of constitutional disturbance which to have a beneficial effect upon cancers, especially followed the operation. The operation was per- those of the epithelial variety. When presented to formed in the usual manner, except that in closing the Society the man was to all appearances practithe wound, after ligating the pedicle and dropping it cally well, the ulcer having cicatrized. Four months into the peritoncal cavity, three sets of sutures were afterwards the sore reappeared. At that time the employed. First, the peritoneum was closed by a specimen of the drug which Dr. Hamilton had obcontinuous suture of catgut, the linea alba brought tained from the State Department gave out, and he together by a second line of catgut sutures, and was unable to procure anything like it in the market. finally the external integument was approximated by Indeed, no two specimens purchased by him reseminterrupted silver and silk-worm gut sutures. The bled each other. None of them have had any effect. advantage of this mode of procedure is very obvious. With the specimen obtained directly from Brazil, The sutured abscesses, so called, are avoided, or at through the Department of State, Dr. Hamilton all events, should abscess occur about the abdominal treated an epithelioma involving a part of the cheek, sutures, the entrance of pus into the abdominal cavity is prevented by the continuous suturing of the constant symptoms. A few applications checked the hæmorrhage and relieved the pain. The char- the Senate, a Commissioner of Health, who shall be acter of the granulations was entirely changed, and intrusted with the management of the Bureau herein cicatrization was going on well. The American Sur- established. He shall be paid an annual salary of gical Association being in session here at the time, four thousand five hundred dollars. For his use the he showed the case to several of the members, who Secretary of the Interior shall provide suitable offices, agreed with him as to the cicatrization. Dr. J. Col- and, with the approval of the same, he shall employ lins Warren, of Boston, thought it a case of noli me such assistants and clerks as may be necessary. tangere, a milder form of epithelioma. Dr. David Prince also saw the case. The patient was rapidly ment of State to obtain from the consular officers at improving when the supply of the drug became ex-foreign ports and places all available information in hausted, and the disease is now as bad as before. regard to the sanitary condition of such ports and None of the recent applications have been at all places, and to transmit the same to the Bureau of useful. Upon investigation, Dr. Hamilton finds that Health; and said Bureau shall also obtain, through other physicians have had the same experience, hence he concludes that alveloz as at present sold is either inert from deterioration, or fraudulent. It is a resinous "juice," or "milk," gathered at certain seasons, and may deteriorate. A fresh supply is expected soon to arrive. In reply to a question of Dr. Cook, he said his epithelial patient was said, in addition, to suffer from stone in the bladder, though he had not sounded his bladder. Moreover, his general health was not good. He had given him iodide of potassium whilst applying the alveloz. When the alveloz gave out he continued the potassium in large doses without effect.

Dr. S. S. Adams said that when Dr. Hamilton presented his first patient to the Society, Dr. J. Ford Thompson called attention to the fact that the ulcer was not completely healed and would doubtless return.

DR. HAMILTON said that the disease in this man had lasted for thirty years. There was no pus and only a small bulla in one corner when Dr. Hamilton brought him to the Society. He was content with the freedom from trouble for four months, and a drug is certainly valuable which can exercise such a remarkable influence on an intractable ulcer.

The American consul at Pernambuco sent specimens of the drug to the State Department, together with a history of the drug and its effect; this latter was written by a medical gentleman having a cancer hospital at Pernambuco. It has been printed and can be obtained by application to the State Department. The drug has been tried in France and England with varying results.

#### STATE MEDICINE.

HEALTH.

A BILL TO PREVENT THE INTRODUCTION OF CONTA-GIOUS AND INFECTIOUS DISEASES INTO THE

> UNITED STATES, AND TO ESTABLISH A BUREAU OF PUBLIC HEALTH.

Be it enacted by the Senate and House of Representatives of the United States of America in Con-Health. There shall be appointed from civil life by the prevention of disease. the President, by and with the advice and consent of

SEC. 2. That it shall be the duty of the Departall sources accessible, including State and municipal sanitary authorities throughout the United States, weekly reports of the sanitary condition of ports and places within the United States; and shall prepare, publish, and transmit to the medical officers of the Marine Hospital Service, to collectors of customs, and to State and municipal health officers and authorities, weekly abstracts of the consular sanitary reports and other pertinent information received by said Bureau; and shall also, as far as it may be able, by means of the voluntary cooperation of State and municipal authorities, of public associations, and private persons, procure information relating to climatic and other conditions affecting the public health; and shall make an annual report of its operations to Congress, with such recommendations as it may deem important to the public interests; and said report, if ordered to be printed by Congress, shall be done under the direction of the Bureau. That the necessary printing of the Bureau of Public Health shall be done at the Government Printing Office upon the requisition of the Commissioner of Health, in the same manner and subject to the same provisions as other public printing for the several Departments of the Government.

SEC. 3. That the Commissioner of Health shall, under the direction of the Secretary of the Interior, frame rules which, when approved by the President and issued by the Department of State, shall serve for the instruction of consular officers of the United States and of the medical officers serving at any foreign port. In compliance with these rules, every master of a vessel destined for a port of the United States shall be furnished with a certificate containing a detailed statement of the inspection of the vessel, cargo, crew, and passengers, and of the sanitary measures carried out at the expense of the vessel; or if such measures are not carried out, instant warn-PROPOSED NATIONAL BUREAU OF PUBLIC ing shall be transmitted to the Bureau, who shall immediately notify the quarantine authorities of the port of destination.

SEC. 4. That the Bureau of Public Health shall, with the approval of the Secretary of the Interior, make investigations, both in the United States and, if necessary, in foreign countries, into the nature, origin, and prevention of contagious and epidemic diseases, as well as the causes and conditions of pargress assembled, That there shall be established in ticular outbreaks of disease in the United States, and the Department of the Interior a Bureau of Public shall publish and distribute documents relating to

SEC. 5. That the President is authorized, when re-

manner as the funds at the disposal of the Bureau tary of the Interior.

' Interior, on the requisition of the Commissioner of Health.

SEC. 7. That an act entitled "An act to prevent the introduction of contagious and infectious diseases into the United States, and to establish a National Board of Health," approved March third, eighteen hundred and seventy-nine, and all other acts and parts of acts conflicting with the provisions of this act, are hereby repealed.

SEC. 8. That this act shall take effect sixty days after its passage, within which time the Commissioner of Health shall be appointed.

## FOREIGN CORRESPONDENCE

#### LETTER FROM LONDON.

(FROM OUR OWN CORRESPONDENT,)

The Queen and the New College—The Old Colleges -Carelessness in Dispensing Drugs-Brain Surgery of the Stone Age.

a "Jew-leech" skilled in simples is no longer sought. Anne "he would not have her two legs for her three The pharmacopæia is not disfigured by the quack remedies found in the first edition, and compounded The roll of the Physicians' College includes also the

quested by the Bureau of Public Health, and when some of them of more than 120 ingredients. It is the same can be done without prejudice to the pub- hardly possible to read of the rival Colleges of lic service, to detail officers from the several Depart- Physicians and Surgeons conjointly erecting an ediments of the Government for temporary duty, to act fice for any common purposes without recalling the under the direction of said Bureau, to carry out the jealousy and bickering that led to constant quarrels provisions of this act; and such officers shall receive in former days. The surgeons, or, more correctly, no additional compensation except for actual and the barber-surgeons, were the older body of the two, necessary expenses incurred in the performance of for they were incorporated by a charter granted to such duties. When a detail of suitable officers can-them by Edward IV. The physicians were constinot be made, the Commissioner of Health may em- tuted a college by letters patent of Henry VIII. To ploy such experts, and for such time and in such put an end to the "irregular, unlearned and incompetent" practitioners who abounded in those days, may warrant, subject to the approval of the Secre he formed the celebrated Linacre with four others into a medical faculty. This provoked the ire of the Sec. 6. That to defray the expenses incurred in surgeons, and quarrels grew apace. In Elizabeth's carrying out the provisions of this act the sum of time there was a notable difficulty between the physiseventy-five thousand dollars, or so much thereof as cians and surgeons "whether a surgeon might give may be necessary, is hereby appropriated, to be dis-linward remedies in the sciatica, pox, or any other bursed under the direction of the Secretary of the kind of ulcer or wound." The Bishop of London and the Master of the Rolls were both in favor of the surgeons, and old Dr. Caius, then President of the physicians, was called before "My Lord Mayor" and others of the Queen's delegates to "plead for his college." He did this so successfully that it was unanimously decided that it was unlawful for surgeons to administer medicines in the instances cited. After this the surgeons quarrelled with their colleagues the barbers and severed the connection. Then the two companies quarrelled so outrageously that Henry VIII reunited them again as a "Master and Commonalty of Barbers and Surgeons." They kept together till 1745, when the surgeons departed to the Old Bailey, and subsequently, in 1800, formed the body in Lincoln's Inn now known as the College of Surgeons.

The original College of Physicians was Linacre's Stone House, in Knightrider Street. The house was given to the Faculty during the lifetime of Linacre, who was one of Henry VIII's physicians. One of the most useful things the college ever did was to form a botanical garden in 1587 for the cultivation of rare plants of medicinal value. The garden cost The announcement that the Queen will lay the "forty marks English money" a year, and the emifoundation-stone of the building which the College nent herbalist, John Gerarde, had charge of it. After of Physicians and the College of Surgeons are con-the Civil War the college was on the point of being jointly erecting on the Thames Embankment has sold as "church property" when a member, Dr. been received with marked satisfaction by the pro-Baldwin Harney, became its purchaser. It was fession. It is to Queen Elizabeth that medicine burnt down during the great fire, and rebuilt in Warowes its emancipation in England from many an wick Lane, near St. Paul's. In 1814 the college obold-world absurdity derived from Arabic and Pagan tained from the Legislature power to hold its meetings sources, for it was Elizabeth who, at the request of in Westminster, and in 1820, through the efforts of old Dr. Caius—the founder of the college bearing Sir Henry Halford, the present building of the Colhis name at Cambridge—sanctioned the practice of lege of Physicians in Pall Mall was erected. The anatomy in this Kingdom, and thus laid the basis for College can boast among its list of Fellows many a systematic scientific study of the body. It seems, whose names the entire civilized world holds in honor therefore, quite in the fitness of things that another and would be unwilling to forget. Caius, Harveyqueen should lay the first stone of the new academic who bequeathed to the institution, along with other building in which the rival Colleges of Physicians and things, his "best Persian long carpet" and "pair of Surgeons have been merged. Times have changed brass andirons with fire shovel and tongs of brass," since the days of Dr. Caius; the aid of the "barber Sir Thomas Browne, Sydenham, Sir Hans Sloane, chirurgeon" at the sign of the red and white pole or Radcliffe, who was foolish enough to tell Queen Duke of Montagu, admitted in 1717, and the Duke DOMESTIC CORRESPONDENCE

of Richmond, in 1729. An interesting report of an inquiry into the accuracy of chemists and druggists in the dispensing of medicines from physicians' prescriptions has recently To the Editor of the Journal: been presented by Dr. Seaton. Within the past seven months Dr. Seaton has sent fifty prescriptions to various chemists and druggists and, in conjunction with Dr. Otto Hehner, has analyzed the medicines obtained. In order to carry out the inquiry in a broad spirit and without incurring any charge of splitting straws by cavilling at insignificant inaccuracies, the authors of the report drew the margin of error at 10 per cent. over or under the amount of the active drug prescribed in each case, and the deviations of wider mark than this have been singled out for comment. Out of fifty examples this limit was exceeded in seventeen—that is, in thirty-four per cent., while in eight of these cases, or sixteen per cent., the error to be attained is organization, and the results which exceeded twenty per cent. of the active ingredient inevitably follow where that is successful. prescribed. Some of these errors, except inasmuch serious from a medical point of view. In one case pills were ordered, containing mercury and hyoscydeficiency of eighty-five per cent.

ther that the credit of the ordinary chemist is less by members of the regular profession can join the assailed than may at first appear from the foregoing Association without presenting themselves in person statements. Of the total number of fifty prescrip- for election. These suggestions are embodied in tions thirty were made up at the shops of chemists the amendment permitting membership by applicaand druggists, and among these thirty cases there tion, which has been in existence for nearly two were only two of serious error. At "doctors' shops," not yet obsolete rivals of legitimate pharmacy, two riod is hardly what might have been expected. This medicines were made up, one of which showed one of the gross errors already referred to. At the co- and that the real advantages and benefits of memberoperative stores fourteen medicines were made up, ship in the National Association should be brought which included three cases of serious error. Four home to the profession. prescriptions were submitted to a "drug company," and of these no less than three were inaccurately of finance when suggesting a method by which the dealt with to the extent of more than twenty per transactions of existing Societies, if incorporated, cent. It would appear, therefore, that the public could be published in The JOURNAL. I cannot agree are safer in going to the shop of the ordinary quali-with him that the stricter application of the doctrine of fied and registered chemist than in taking their pre- "survival of the fittest" will, in the long run, be benscriptions to the "doctor's shop" or to the cooper-eficial. It would damage The JOURNAL to print ative store.

Professor V. Horsley has delivered an address on the "Brain Surgery of the Stone Age." Professor Horsley mentioned the fact that many of these apertures were in the part of the skull over the motor area, and thought that the operations were chiefly for traumatic epilepsy. G. O. M.

#### BRANCHES OF THE ASSOCIATION.

Dear Sir: - I have carefully read the letters which have followed the appearance of "Branch's" communication, and am rather surprised at the position which some of your correspondents have taken.

In his last letter (JOURNAL of March 6) "Branch" states that his object is "to increase the influence of the Association, and organize the profession;" while he distinctly deprecates any idea of abolishing existing institutions. The only point on which I am not clear is where he says that "a very large amount of red-tape would be taken away from the requirements for admission to the Association when respectable and reputable physicians desire to enter;" the object

I am in perfect accord with your correspondent as they implied a culpable carelessness, were medi-when he writes: "If anyone can propose a plan which cally of no great consequence, but some few were will be more acceptable to the majority than the Branch system, I will certainly not raise my voice against it; but I do not see that a plan is necessarily amus. Owing to carelessness, the mercury was so bad because it is imported from Europe." No scheme unevenly distributed through the dozen pills ordered can attain the end in view that does not provide for that some contained a third more mercury than they an executive meeting when required; to which busishould have contained. In another case where corness and legal matters can be entrusted. There are rosive sublimate was ordered the mixture contained other objects for the American Medical Association one-third more than the prescription ordered. In a than the mere advancement of science; but so long third instance where sub-acetate of lead was pre- as that body only exists practically at an annual scribed the mixture contained nearly sixty per cent. session, these objects must remain in abeyance. Dr. in excess. Of sulphate of iron there was found a Hamilton considers that all we desire would be gained by admitting the members of affiliated State Socie-It is gratifying, however, to learn on reading fur-ties; while Dr. Baxter advocates a regulation whereyears; yet the number of applicants during that pewould seem to show that some incentive is needed,

> "State Society" deals indirectly with the question many of the papers found in the annual volumes of transactions of our State Societies; yet I think that the publication of these very papers is most desira-Their production involves considerable time and labor on the part of the writer, who is usually not facile; and it is but slight encouragement to better work if they are consigned to the waste-paper basket.

> The whole question of finance is the great obstacle to encounter, and the most difficult problem to

settle. I do not advocate the abolition of existing institutions, though I should be sorry to maintain first is far more important. What the profession them if a more effective scheme of organization can wants is thorough organization, and a permanent be found. The position of a State Society under representative executive body. the contemplated change, if that Society became a "Branch," would remain precisely as at present, ex- annual reunions, at which the rank and file of the cept that every member would pay \$5 annually to profession are brought face to face with the great the treasurer of the Association; all their rights and minds of the day; but save as an intelligent audiprivileges could be preserved, and their autonomy ence, it does not individually benefit them. Take would be then, as now, complete. In any change the list of members at a State Society meeting, where which is contemplated, the same system of local rep- one or two hundred are present; and see how few resentation would exist; and the profession in a given have papers to read, or cases to report, or will join district would be de facto responsible for the ethical in the discussions. The true source of medical culconduct and good standing of the members drawn tivation is in the local society, which meets once or from it. I cannot see how any of the "crooks and twice a month; when every member participates in charlatans," whom Dr. Keller fears, would have any the evening's proceedings, without that hesitancy better chance of admission; while the salutary influence of the Association over them would be mate- assemblies. Papers are read, cases reported, and rially increased. "Illinois," whose letter contains criticism invited, while opinions are freely expressed, very cogent figures, says "red-tape is thus reduced in a manner impossible except under these condito a minimum, and yet there is no more probability tions. They promote harmony and good fellowship of a bad man getting in than into one of our State amongst the profession, maintaining its dignity, and Societies." This applies to the British Medical As-defining its position, by following Art. VII of the sociation, and would be just as true of the Ameri-Code. Nothing can supplant them, and any scheme can, if contemplated changes were carried out. A qualification for membership would still exist, and could be so arranged as to make some members personally responsible for the applicant. "Illinois" very properly deprecates what he terms the "holier are concerned; examples of which are well shown than thou" sentiment. There are, in every commulin an editorial in The JOURNAL for March 6. nity, physicians whose tendency to wander from the paths of ethical regularity, is unfortunate and marked. When these men are outside the pale of any medical organization, they are free; but once on the roll, it becomes possible to train and discipline them; and the punishment of formal expulsion for obstinate contumacy cannot be lightly regarded. I would always favor the largest possible membership for a Society in its district, believing that the best interests of the profession are thus more readily furthered.

who has formulated a definite scheme, and one which

presents many excellent points.

The Triennial Congress is a good suggestion, and a year. disposes of the inevitable clashing which would result between annual meetings of Branches and the National Association. Some plan on that basis would be most feasible, but further sub-division might To the Editor of the Journal: be advantageous, especially in the more densely pop-Branch should have control of its own members, and their election; and that the qualification should be membership in a local Society.

"Medicus" lays down two purposes "to be aimed at" in any change which is to be made:

1. To so increase the numerical strength of the Association, as to make it, by virtue of its representbearing upon the interests of medicine; and the professional and social deportment of its members.

collateral branches; and the elevation of the medical profession."

Both these purposes are to be kept in view, but the

Medical science is advanced in a general way by which prevents many coming forward in the larger which may be proposed will be strengthened by their incorporation as an integral part. Among the functions which the National Association performs, are those where matters of general professional interest

The profession wants representation, so systematized that when questions of vital moment and great public interest are involved it can meet the State or Federal Government, as an authoritative exponent of the wishes and opinions of its constituents. I believe that this purpose can in no way be so well served as by the establishment of Branches of the American Medical Association; and I think that the ends of medical science and medical policy will be best aided if these Branches are numerous, estab-An "Active Member" is the first correspondent lished in arbitrary districts, formed with due regard to the numerical strength of the profession in a given area, and meeting frequently, say three or four times Yours truly,

JAMES H. PARKINSON, L.R.C.S.

Sacramento, Cal.

Dear Sir:-I have been much interested in the ulated Eastern States. I do not concur with his letter published in The JOURNAL of Feb 6, and suggestion No. 5, as I believe that once organized a signed "Branch," relative to the establishment of a more intimate relation between the various State Societies and the American Medical Association. The plan which "Branch" has so admirably and clearly presented in his letter is almost identical with one which I have for some time carried in my mind, and which, but for the unfortunate state of confusion and dissatisfaction now existing in the profession, I would ative power, "the supreme authority upon all questions have ventured to lay before the readers of The Jour-NAL some time ago. To me, and I dare say to many others, the adoption of a plan by which the State So-2. "The advancement of medical science, and the cieties may become more closely affiliated with the National Association seems to be the best, and I was about to say, the only way of bringing the profession again into that state of harmony so essential to the development of the great benefits which the Association may, and most certainly should confer upon the

medical profession of America.

be recalled, but are passed into history, the American Medical Association does not enjoy that degree of support and encouragement from the profession at large which its importance, as a scientific body, and its position, as the National representation of the medical talent of our country, assuredly merit and should undoubtedly receive. This desirable result can in no way be so certainly attained as through the active sympathy and hearty co-operation of the various State Societies in the aims and objects of the Association, which really is made up of, and exists only through the State Societies. If each State Society will accept and fill its place in the formation of the Association, there will no longer be cause for just complaint of the conduct or management of the Association. The plan proposed by "Branch" may be joy other privileges, except by permission of the the best one, though it differs in some minor details coporate membership and the council. from the idea which was in my own mind, and I would willingly see it adopted in place of the one I am be entrusted to committees chosen from the members about to describe, or I would gladly give support to of the council, from the Association at large, or from a plan differing from either of these if it should seem members of the medical or other professions outside that the good of the Association could be furthered the membership of the American Medical Association. by something else, better than by these.

will consent to be assigned a position as simple as to include the entire medical profession of the Branches of the American Medical Association. United States, so far as this is represented by State Their real position should undoubtedly be that of a organizations as State Societies; and the diploma of Branch of the higher organization, of which they membership in a State Medical Society would constishould be the willing adjuncts and essential compontute the possessor of it at once an Associate member ents. The National Organization should have no of the National Association, thus enrolling the entire being apart from that as the representative of the State Medical Society membership in the memberbest and noblest elements of the State Societies, and ship of the National Association, as the body to should find its greatest pride and its highest honor in their celebrated distinction. The State Societies profession to the Association, and inciting a more should feel an individual pride in the formation of the National body and an individual responsibility for its emulation for that body, as the highest recognized character and actions as the representative of the medical organization of the country. medical profession of the United States; and thus watch over and protect the Association from the hasty plished, and its beneficent results obtained is the or injudicious acts of thoughtless or designing members.

The form which has appeared to me the best for fession in the the accomplishment of the above objects would be

something as follows:

1. The American Medical Association is to consist of Branches corresponding to the several States and Territories of the United States.

2. Each State or Territorial Branch is to be the official local representative of the American Medical Association, and the diploma of membership in any State Medical Society is to be a title to Associate

membership in the National Association.

3. Each State Society should be represented by delegates, according to the membership of the State Society; one delegate to be chosen for each. . . . . members of the State Society.

the "council" or governing body of the Association, will be fully advised of all arrangements with the variand to take charge of all its movements, subject to ous railroads. Delegates can come at any time they such restraints as may be thought judicious on the may wish before the meeting of the Association and part of the Association.

5. From the delegates so appointed by the State Societies, the Officers of the Association shall be chosen, except the President, who may be chosen from without that body, or who may be elected in From a train of circumstances which cannot now open meeting of the Association, by vote of the entire Association.

6. All members of State Societies who pay the dues of the American Medical Association, are thereby constituted Corporate members of the Association, and are entitled to take part in the transaction of business, and to receive the publications of the Association, and to enjoy all other rights and privileges

pertaining to that body.

7. All other members of State Societies are thereby constituted Associate members of the American Medical Association, and may attend all the scientific meetings, and shall be enrolled in its catalogue; but they do not thereby gain the right to take action in its business meetings, nor to vote, nor do they receive the communications of the Association, or en-

8. The scientific labors of the Association are to

The plan here suggested, if it should be adopted, I cannot think that at this time the State Societies would have the effect of so enlarging the Association which it naturally belongs, in this way attracting the exalted degree of esteem and respect, and a greater

That this desirable object may be soon accomardent desire of many members of the medical pro-BAY STATE.

# ASSOCIATION ITEMS.

RAILWAY FACILITIES TO THE ASSOCIATION MEET-ING .- For the next meeting of the American Medical Association at St. Louis Mo., from the 4th to 7th of May next, arrangements have been made with all of the principal railroads between the Atlantic ocean and Missouri river, to give delegates who pay full fare coming, return tickets at one-third fare. As yet the Commissioners of the Baltimore and Ohio, and Southern Passenger Association, not heard from. No doubt as to the same arrangements being made with 4. The delegates so chosen "pro rata" are to form them. In the next issue of this JOURNAL members will be allowed five days after the adjournment of the nated, are earnestly requested to forward, at once, meeting, before they will be required to commence lists of their delegates. their return trip. When purchasing tickets, get certificate from the railroad agent, at the starting point, showing the amount paid, the initals of road over which tickets reads, and office stamp where sold.

Other weekly medical journals please copy.

R. M. Jordan, M.D., Chairman Transportation Committee.

St Louis, Mo.

RAILWAY FARES FROM CHICAGO TO ST. LOUIS .-The Illinois Central, Chicago and Alton, and the Wabash Railways have agreed to fix the rates from Chicago to the meeting of the Association, for members, at \$7.50 round-trip.

THE GRANT COUNTY MEDICAL SOCIETY AND THE Association.—At a regular meeting of the Grant County, Indiana, Medical Society, on March 23, 1886, Dr. William Lomox gave a short history of the difficulty or misunderstanding between the American Medical Association and certain members of the Executive Committee for the International Medical Congress, and offered a resolution of approval of the action of The resolution was unanimously the Association. S. C. WEDDINGTON, M.D., Sec'y. adopted.

RAILWAY FACILITIES TO THE ASSOCIATION MEET-ING.—The regular through trains of the Illinois Central Railroad from Chicago to St. Louis will afford excellent accommodations for delegates who wish to ville, Tenn., Chairman; Dr. W. B. Lawrence, Batesattend the meeting of the American Medical Association at St. Louis the first week in May. night express, with Pullman sleeping-cars, leaves Chicago at 8:30 P.M., and arrives in St. Louis at 7 A.M. The rates are \$7.50 round-trip.

The rates on the Baltimore and Ohio Railway for those coming from the East and South-east are full

fare coming and one-third fare returning.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tues-

day at II A.M.

The delegates shall receive their appointment from permanently organized State Medical Societies and such County and District Medical Societies as are recognized by representation in their respective State Societies, and from the Medical Department of prudence. the Army and Navy, and the Marine Hospital Service of the United States.

Each State, County, and District Medical Society entitled to representation shall have the privilege of sending to the Association one delegate for every ten of its regular resident members, and one for every additional fraction of more than half that number: Provided, however, that the number of delegates for any particular State, territory, county, city or town shall not exceed the ratio of one in ten of the resident physicians who may have signed the Code of Ethics of the Association.

Also, that the Permanent Secretary may be enabled to erase from the roll the names of those who have forfeited their membership, the Secretaries are, by special resolution, requested to send to him, annually, a corrected list of the membership of their respective Societies.

#### SECTIONS.

"The Chairman of the several Sections shall prepare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their respective Sections. . . "-By-Laws, Article 11, Sec. 4.

Practice of Medicine, Materia, Medica and Physiology .- Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .-Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary.

Surgery and Anatomy.—Dr. Nicholas Senn, Milwaukee, Wis., Chairman; Dr. H. H. Mudd, St. Louis, Mo., Secretary.

State Medicine.—Dr. John H. Rauch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas, Secretary.

Ophthalmology, Otology, Laryngology. - Dr. Eugene-Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton. St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nash-

ville, Ark., Secretary.

Oral and Dental Surgery.—Dr. John S. Marshall, Chicago, Ill., Chairman; Dr. A. E. Baldwin, Chicago, Ill., Secretary.

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting.—By-Laws.

Committee of Arrangements .- Dr. Le Grand Atwood, St. Louis, Missouri, Chairman.

AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary-all other nomi. nations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J.—Create a new Section, to be known as the Section on Medical Juris-WM. B. ATKINSON, M.D.,

Permanent Secretary ..

1400 Pine St., S. W. cor. Broad, Philadelphia.

# MISCELLANEOUS.

STATE MEDICAL SOCIETY OF ARKANSAS. - The Eleventh Annual Session will be held in Helena, on Wednesday and Thursday, April 28 and 29, commencing on Wednesday at 10 A.M.

Notice of Removal.— Dr. T. Gaillard Thomas has removed from 294 5th avenue, New York, to 600 Secretaries of Medical Societies, as above desig- Madison avenue, between 57th and 58th streets.

# ournal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS

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CHICAGO, APRIL 17, 1886.

No. 16.

# ORIGINAL LECTURES.

DIGITAL EXPLORATION OF LUMBAR ABSCESSES.

A Clinical Lecture delivered in the Mercy Hospital, Chicago (Service of Edmund Andrews, M.D., and E. Wylly's Andrews, M.D.),

BY EDMUND ANDREWS, M.D., LL.D.,

PROFESSOR OF CLINICAL SURGERY IN THE CHICAGO MEDICAL COLLEGE, AND SURGEON TO THE MERCY HOSPITAL.

Were it possible to lay open a lumbar abscess principle.

fluctuating tumor on the outer side of the left thigh, of pus. Introducing my finger and long probes I and become healed. trace the cavity, not to the hip joint, but upwards cut off the supply of pus to the cavities below.

fice leading to the interior of the body. I enlarge

have pushed away the peritoneum, making plenty of room for another incision. Passing a bent metallic staff into this pouch I feel the pressure of its extremity, and cut down upon it from without, with a free incision. I can now introduce a finger into the anterior orifice, and another into the posterior one, and bring them together in the cavity. We will next pass a large drainage-tube through, leaving an end out at each orifice.

Returning to the posterior incision, I insert the finger again, and trace another channel upwards behind the bistoury and within the lower ribs. I now throughout its whole extent, and treat it thoroughly cut down upon my finger just below the twelfth rib, in every part as an open sore, we would eliminate alongside the common mass of the spinal muscles, nearly all its dangers, except in tuberculous cases, and carry another long and large tube down from this Now, by thorough digital examination of their inte- orifice, bringing its lower end out through the orifice riors, followed by resolute incisions and tubing, we below, alongside the posterior end of the iliac tube. approximate to this condition of safety. Let us see We can trace with the probe a canal running still what may be done for the patient before us on this upwards to the ninth dorsal vertebra, where we find externally the usual projecting knob characterizing He is not aware of the real nature of his disease, Pott's disease. Here is the fountain head of the pus but supposes he has a hip disease. There is a large which has burrowed through all the long and complicated passages below, exhausting the patient, not below the trochanter, but pressure, rotation and fric- by drainage, as the old surgeons said, but by the tion of the joint surfaces upon each other elicit no want of drainage, or more accurately, by the absorp-There is no hip disease. I now make a free tion of putrid pus from all these vast interior surincision into the abscess and evacuate almost a quart faces, which will now collapse down upon the tubes

There still remains the short passage from the upand backwards into the sciatic notch, where it enters per orifice to the carious bone. We might excise a the pelvis. We will insert a large drainage-tube and portion of the ninth rib behind, and endeavor to explore at a higher point. Just over the posterior scrape away all carious bone from the vertebra, but part of the crest of the ilium there is an old fistulous in doing so we should have to deal with the ninth orifice, too small and contracted to allow a free dis-intercostal artery, which winds across the body of charge of pus. This, I suppose, opens into the same the affected vertebra in a situation which renders it inner passage which goes downwards through the pretty difficult of management. Our incisions and pelvis, out of the sciatic notch and into the great tubing below, followed up with antiseptic injections, abscess of the thigh. We will open it widely and will relieve the patient of most of the causes of his debility. The upper short segment of the channel Introducing my finger. I find the usual expansion between the upper incision and the affected bone is of the sac under the skin, with a narrow inner ori- too small in extent to cause great debility, and we will inject it daily with antiseptics, under which treatthis inner passage with the bistoury, and now can ment not a few cases will heal, the carious spicules insert my finger into the cavity of the trunk behind of bone being partly washed away and partly abthe thickened peritoneum. At this point I find a sorbed. If this result be not accomplished, we will channel extending down towards the sciatic notch, resort to a plan by which I have often removed dead and also a pouch-like passage running forwards along bone from different parts of the body inaccessible to the internal iliac fossa and expanding into a sac be-hind the region of the anterior superior spinous pro-hydrochloric acid, a resource which is strangely necess and the outer third of Poupart's ligament. Here glected by most surgeons. To carry out this plan it the thickening of parts and pressure of the abscess will be necessary to open the intercostal space op-

or catheter, and identifying its location by touch or the results obtained have likewise been highly faby the use of needles, we cut into the abscess cavity vorable. at its very fountain head. If the dead bone be found loose, we can then pick it out; if not, a tube France, to the Philadelphia Medical Times (March is inserted well against the bone, and being attached 6, 1886), referring to the subject of antisepsis, the to a fountain syringe full of diluted hydrochloric acid, it transmits a quart of the solvent slowly against and across the carious spot. This is repeated daily, and if the bone is fairly reached by the tube every dead cavity within is healed.

much more accessible. The finger can come directly upon them, and there being no intercostal arteries down, and perhaps two and a half inches wide. In iodide, and its antiseptic power is not half so great." it lay two very small pieces of dead bone, which I removed. The third lumbar vertebra had been affected with caries, causing the usual external deformity. Exploration by the finger within showed a considerable concavity in the side of the body of the vertebra, but it was fully healed, being firm and well covered with granulations. The size of the cavity showed that much more bone had been lost than was accounted for by the pieces found. The remainder must have been either absorbed or washed away.

A careful examination by the finger and the probe showed that the caries was completely healed, and that under simple tubing and antiseptic injections the abscess will be permanently cured.

# ORIGINAL ARTICLES.

THE VALUE OF BINIODIDE OF MERCURY AS AN ANTISPETIC IN OBSTETRICS.1

BY EUGENE P. BERNARDY, M.D.

At a meeting held June 4, 1885, I had the pleasure of reading before this Society a paper on the "Value of Biniodide of Mercury as an Antiseptic in Obstetrics." It was with hesitancy that I brought forward the claims of a new agent whose properties were at that time comparatively unknown. My only knowledge of its effects was that which I had derived from reading the experiments of Dr. Miquel, of France, and from my experience in three cases. Tonight I again bring it to your notice, not as an un-known and untried antiseptic, but as one which has proved itself far superior to any of this class of preparation which I have thus far used in obstetric practice. Since writing my last paper I have learned

posite the affected vertebra, widening this space, if that the biniodide of mercury has been used for the necessary, by cutting a broad notch in the rib below. past year in preference to all other antiseptics at the Now, passing up from the incision below a sound Lariboisière Maternité, of Paris, and the reports of

In a letter written by Dr. Thos. Linn from Paris,

following passage occurs:

"Professor Panas has again something to say about antisepsis in eye-surgery, principally in the treatment of cataract. The principles that guide him are, first, particle is effectually dissolved out. The incision is to make use of an antiseptic that is sure and not irrikept well open by a good drainage-tube until the tating in its action. . . . Of all the antiseptics which he has used during the last two years, Dr. When the lumbar vertebræ are affected they are Panas has now definitely adopted a solution of the biniodide of mercury in 20 to 1000  $(\frac{1}{20}$  to 100?). Even in 40 to 1000  $(\frac{1}{40}$  to 1000?), this salt possesses there, they can be scooped and scraped, if one sim- a very strong anti-fermentative power, so that at ply avoids the aorta and the vena cava. A few double the strength nothing should resist it. . . . days ago I explored such a case. Opening into the As to the other antiseptics used, boric acid is not abscess alongside the erector spinal muscle, I found irritating, but its antiseptic power is doubtful; the a pus cavity about five inches long extending up and bichloride of mercury is more irritating than the bin-

> These remarks fully substantiate the opinion expressed in my former paper, that "I considered the biniodide of mercury far superior to the bichloride of mercury as an antiseptic." Of course, the cases of Dr. Panas belong to eye-surgery; but still the experiments made in both classes of cases led to the same conclusions.

> I have here the history of eight other cases in which I found it necessary to use the biniodide. have perhaps given a fuller detail of circumstances than may appear necessary. If I so erred, I have done it for the purpose of fully and clearly showing under what conditions the antiseptic was used.

> It will be observed how readily offensive odors disappeared after only a few injections of the biniodide. In some of the cases the odor around the patient was perfectly horrible.

> Case 1.—On September 9, 1885, I was requested to attend Mrs. F., residing at Fifty-fifth and Vine Streets, in her fifth confinement. Her previous labors had taken place in Belgium, and had always been terminated by the forceps; only two children being born alive. The first and third lyings in were complicated by attacks of puerperal fever.

> l arrived about 2 P.M. Found the patient had been in labor since the previous evening (8 p.m.) On examination, found the os completely dilated, head presenting, while to the left I felt what seemed to be a prolapsed cord. The head seemed jammed between the promontory of the sacrum and the pubes. I ruptured the bag of waters so I could make a more decisive examination. Down came a loop of nonpulsating cord, which proved to be irreducible on account of the position of the head. The presentation was now made out to be a partial brow; an antero-posterior contraction existed; the promontory of the sacrum caught the side of the head and pinned it in position. I attempted to push the head up, but

<sup>1</sup> Read before the Obstetrical Society of Philadelphia, April 1, 1886.

1 Evidently an error in proportion, as in the formula given it is 1-20. gramme to the litre, or 1 to 20,000.

soon found it could not be done. I then attempted ing. Labor was lingering, but finally the child (in a to produce flexion, and failed. Wallace's forceps putrid condition) was expelled naturally. The plamet with similar results; on account of the unnatural centa came away without any trouble. position of the head, the forceps constantly slipped. I ordered the patient to be washed out with  $\frac{1}{4000}$ By this time I was completely exhausted. I gave solution of the biniodide of mercury four times a day. one-half grain of morphic sulph., which would insure The first injection I administered myself. The secthe patient needed rest, as her pains had all along ond and third injections were followed by a slight been active.

things the same. Dr. A. E. Roussel, who came with duced the biniodide to the  $\frac{1}{8000}$ . Within two days me, etherized the patient. I again attempted to the discharges became perfectly odorless. Each inchange the position of the head, but failed. Pagot's jection was followed by a feeling of ease and comlong forceps were applied, but on the slightest trac- fort. Discl.arged well on the ninth day. tion they would slip. Tarnier's forceps seemed to Case 4.—On October 23, 1885, I was requested grasp the head in a firmer manner, but they finally to attend Mrs. R., in her fourth confinement. Her gave way. I had now worked continuously for two third lying-in had been followed by a severe attack hours. Seeing there was no other resource, I per-forated the head, and within twenty minutes the child os rigid, dilated about an inch; waters ruptured;

room partitioned off the main room of a factory, and the patient by this time showing symptoms of The room was well located and freely supplied with exhaustion, she was then fully etherized. I then apfresh air; her husband was the nurse. The next day plied Wallace's forceps and delivered her of a living found the pulse 100, temperature 101°; extreme ten-child; no laceration. The next day she complained derness over the abdomen, especially over the region of pain over the region of the uterus. Ordered oneof the uterus. I washed out the uterus with the eighth grain morphiæ sulph. in tablespoonful of cam-The solution of the biniodide of mercury, and left phor-water every two hours. On my next visit found orders to have it done four times a day. The section the tenderness had increased and the discharges ond visit found the patient free from pain; pulse 80, from the vagina were becoming offensive. Ordered temperature 98½. Convalescence went straight on hot injections of the  $\frac{1}{4000}$  solution biniodide of meras in a normal labor. On the fourth day there was cury. The following day the discharges were free considerable pain over the uterus. Towards even- from odor, the tenderness of the uterus abated. Dising, while washing out the vagina, a clot of blood charged well on the fourteenth day. about the size of a pigeon's egg was expelled, perfectly free from odor. The patient was up on the was asked to see Mrs. C.; first confinement. In this eight day.

Mrs. Mc., age 36, third confinement. After an easy trouble; the urine yielded over thirty per cent. of labor she was delivered of twins. The placenta albumen. The patient was enormously swollen from came away naturally, and everything went well up dropsical effusion. The case from the start was not to the evening of the sixth day, when she became a promising one. On arriving at the house, found feverish and thirsty. The vaginal discharges became the patient very nervous; on examination, found the highly offensive, so much that the windows had to os slightly rigid, but dilating, the waters ruptured; be constantly kept open. I immediately ordered labor dragged on slowly all day, with very little adinjections (hot) of the 4000 solution of the biniodide vance. Towards 12, midnight, she suddenly went of mercury, asking the patient to note particularly into a spasm. I immediately etherized her. By the when the odor disappeared. The first injection was time she was completely etherized Dr. Curtin, whom followed by no effect; but on the second injection I had sent for, arrived. On examination the os was being made, the odor disappeared and remained so found dilated, slightly rigid; the ether was pushed, during convalescence. Discharged on the tenth with the effect of softening the os. I then applied day, well.

ment. About a month previous she had called at laceration. my office, and I had given my opinion that the child

stinging sensation, which I believe came from using On my return at 5 P.M., found the condition of water which was too hot; but, to make certain, I re-

was extracted, which weighed, without the brains, vertex-presentation, right occipito-posterior position. fifteen and one-half pounds.

The patient was living on the second floor, in a Labor was lingering, os remaining somewhat rigid. About 9 P.M., finding that no headway had been made,

Case V.—On the morning of November 3, 1885, I patient a year previously I had dilated a constricted Case 2.—Was called (October 5, 1885) to attend os. Pregnancy was ushered in with marked kidney Simpson's forceps, but they would not hold; Wal-Case 3.—On the morning of October 7, 1885, I lace's long forceps were applied, and in a short time was called to attend Mrs. B., age 28, sixth confine- the patient was delivered of a fine bouncing boy; no

The next visit found the patient doing well; pulse she was carrying was undoubtedly dead, and that she about 80, temperature normal. On my second visit was likely to fall in labor at any time. On my arri-the temperature was 120°, pulse 120-130, great fever, val at the house, found, after examination, the os per- excessive tenderness of the uterus, the discharges fectly dilated and the bag of waters protruding be- very offensive. This sudden change was caused by tween the vulvæ. Ruptured the bag of waters, and the stupidity and incompetency of the nurse. The of all stenches I never smelled the like. The win- nurse being discharged, the mother of the patient dows had to be thrown open. On pushing my ex- undertook to nurse her. I immediately ordered hot amination, found a small hydrocephalic child descend- injections of \(\frac{1}{4000}\) solution of biniodide of mercury. The second injection the odor disappeared, but in pulse 130, temperature 104°, discharges from the the fifteenth day.

came away. The next visit found the patient doing perature 102°, pulse 115-120. uterus. Being compelled to leave the city, I handed house and informed me that his wife was in every

ried about the fifth month. On my arrival at the ception, that on the 27th of March, or the seventh bedside, found the feetus had been expelled early during the day; the hemorrhage had been excessive; on examination, found shreds of placenta in the vagina, could detect a larger portion in the uterus. The patient declined any interference, stating that it odide was used, the vaginal discharges were free from would come away itself. The patient lived in a any offensive odor, and it seemed to have a decided small, ill-ventilated house, up a court, having for influence on the temperature. The patient is still nurses the neighboring women. Gave freely of ergot, under treatment. but without effect; within twenty-four hours the odor from the vaginal discharges was highly offensive; or- first paper, making in all eleven cases. This cerdered the  $\frac{1}{4000}$  solution of the biniodide of mercury tainly gives us sufficient data to draw conclusions. to be thrown up the vagina four times a day; a few injections readily dissipated the odor. On the fifth fully sustained by my subsequent experience, and in day the remaining portion of the placenta came my mind fully establish the value of the biniodide of away, free from odor. The patient was discharged mercury as an antiseptic in obstetric practice. well on the tenth day.

sentation. Labor continued throughout the day, added to dissolve the mercury. and terminated naturally at 10:15 P.M.; no rupture to the extent of half an inch; there was a tendency in a convenient and readily soluble form.

this case did not remain away; I believe it was on vagina highly offensive. Ordered the vagina to be account of not having a competent person to use washed out with a solution of carbolic acid (twenty the injections. Even as imperfectly as my orders per cent.), ten grains sulphate of quinine morning were carried out, the biniodide held the odor under and night, and twenty drops tincture of digitalis every control, as the discharges were never as offensive as three hours. Midnight, same day, pulse irritable, before its use. The patient was discharged well on quick and compressible; pulse 128, temperature 103°, the discharges from the vagina still offensive. Next Case 6.—On November 11, 1885, I attended Mrs. morning, temperature and pulse the same, no change. L. in her fifth confinement; her last two confinements Ordered the  $\frac{1}{4000}$  solution of the biniodide of merhad been followed by puerperal fever. She had been cury to be thrown up the vagina, and if possible into delivered by an excellent and careful obstetrician. the uterus; the injections were administered by the She dreaded the present confinement. On arrival husband, and were thoroughly applied. On the 24th found the child was born; in a short time the placenta the condition of the patient seemed improved; tem-

well, with the exception of some tenderness over the On the next morning the husband called at my the case over to Dr. A. E. Roussel. On his first way worse; the pulse was so irregular that he could visit the patient was feverish, pulse 100, temperature not count it; temperature 104°; patient vomited 101°, discharges extremely offensive, excessive temseveral times; tendency to diarrheea. I asked Dr. derness over the uterus. Internally, 2 grains of Goodell to meet me in consultation. On arriving at quinine and 1/8 grain morph, sulph, were ordered the bedside of the patient, found her in a remarkably every three hours, and four times a day hot injections good condition; pulse 100, temperature 102°; exof the  $\frac{1}{4000}$  solution of the biniodide of mercury, amination showed a slight laceration of the mucous On his next visit found the patient better and the membrane in the vagina, uterus was contracted; discharges free from odor. The patient was dis- treatment to be continued, with this addition if the charged on the ninth day well, feeling satisfied that case did not get along well: To use 10-grain vaginal the red pills, as she called the pellets of the biniodide, suppositories of iodoform in conjunction with the had saved her from another attack of puerperal fever. biniodide injection. These suppositories were not Case 7.—Mrs. B., on December 28, 1885, miscar- used, as the case from this day did well, with this ex-

We have here eight cases added to the three of my

The deductions drawn from my early cases are

In my first series of experiments, to make my solu-Case 8.—On March 26, 1886, I was requested to tion of the biniodide I took 13/4 grains of the salt, attend Mrs. ---, wife of a physician. On my arri-placed it in a mortar, and gradually broke up its val at the house found that labor pains had set in particles, after which I slowly added one pint of boilabout 4 A.M. Saturday morning; examination showed ing distilled water. This gave me a 4000 solution. the os soft and dilating, waters broken, vertex pre- This took a long time, and often alchohol had to be

Mr. J. F. Hayes, of St. George Pharmacy, conof the perincum, but the mucous membrane of the ducted a series of experiments for the purpose of vagina, just behind the posterior fourchette, yielded placing the biniodide in the hands of the physicians to post-partum hæmorrhage, which was readily check-this end pellets were made of three different strengths. ed by compression and the administration of ergot. In making them sufficient iodide of potassium was Next day, pulse 92, skin rather hot, natural flow from added for the purpose, though not enough to cause the vagina. On my next visit, Monday, March 22, any chemical change with the biniodide. The fol-pulse 130, temperature 103½°, pain over the left lowing is the method pursued in making the pellets: side of the uterus; the uterus appeared flabby, not Both salts should be perfectly dry. The potassium having well contracted. Same day at 5 o'clock, iodde is first placed in a mortar which has been

slightly warmed (just enough to take the chill out of it, and thoroughly powdered; the biniodide is then added and well mixed, but not rubbed hard, or the powder will be apt to cake. Care must be taken not to compress the pellets too hard; they keep just as well and are more easily dissolved when they are compressed just hard enough to make a firm pill. The following is the formula for the pellets:

 $\frac{1}{4000}$  = mercuric iodide  $3\frac{21}{25}$  grains, potassium iodide factor. 2 grains. Mix as above, and compress in pellet.

=mercuric iodide 123 grains, potassium iodide 3/4 grain. Mix as above and compress in pellet.

=mercuric iodide 1 6 grains, potassium iodide 1/2 grain. Mix as above and compress in

pellet.

In this form the preparation can easily be carried in the satchel. When required for use one pellet is to be added to a quart of hot water (110°). It dissolves easily, and does not stain the clothing or bedding.

The strength which I generally use is the \(\frac{1}{4000}\). Should it appear too strong the pellet can be cut in half or twice as much water used, thus giving a 1 8000 strength.

221 South Seventeenth Street, Philadelphia.

# SAN DIEGO VERSUS THE ORDINARY DISEASES. BY C. M. FENN, A.M., M.D.,

MEMBER OF STATE MEDICAL SOCIETY OF CALIFORNIA.

Inquiries concerning this climate in its bearing upon disease are so frequently addressed to the writer by members of the profession and laymen, that I venture to furnish a list of questions and responses. For this purpose I avail myself of a series of interrogatories sent to me by some one who is apparently engaged in the collective investigation of diseases. (?) The subject may be of increased interest to some by reason of the multitudes of people that are at pres- after unusual exposure. Consider it a rare malady. ent coming to this locality from all directions. Within a twelvemonth thousands have been added to the been epidemic during the last eight or ten years. population and hundreds of thousands to its material wealth. But to the questions.

"To what extent and at what seasons have the following diseases prevailed in your section during

the years 1884 and 1885?"

Cholera infantum occurs sporadically, if at all. The temperature is neither sufficiently elevated nor

prolonged to produce the typical disease.

Cholera morbus is neither frequent nor influenced by the seasons, owing, doubtless, to the constant presence in market of fresh fruits and vegetables. However, from some unknown cause it was unusually by the physician. A deal of "Safe Cure" is conprevalent from August to October, 1885.

Diarrhaa is seldom epidemic. During outbreak of cholera in Spain, however, there was a noticeable

increase of cases of diarrhoa in this locality. Dysentery occurs sporadically only, and without is a terrestrial paradise for babies.

reference to the seasons.

ticularly governed by temperature.

the period mentioned. A few cases appeared in the winter of 1884.

Diphtheria and diphtheritic sore throat have twice prevailed to a limited extent within the time stated. Death, when it occurs, from laryngeal complications and blood-poisoning.

Croup sometimes prevails during winter months; a predisposition to the disease being an important

Erysipelas. The phlegmonous type rare, and not prone to complicate surgical operations. Erythema, or erythematous erysipelas of more frequent occur-

Intermittent fever. I have never seen an endemic, or indiginous, case of chills and fever here.

Remittent fever. A mild type is sometimes met with among children during autumn months.

Typhoid malarial fever is certainly never endemic,

and rarely found here.

Typhoid fever is comparatively unknown. have a California typhoid, without the intestinal lesion, a version of Hamlet, so to speak, with the Prince left out.

Cerebro-spinal fever. Sporadic cases have been reported. Do not think this climate congenial to it.

Phthisis pulmonalis. There are always some cases, but they are generally imported. Native races are not wholly exempt. I have never known a white person to contract it here.

Rheumatism. Sporadic cases of the acute form occur. Chronic rheumatics prefer this to many other

coast climates.

Pneumonia is never epidemic. Occasionally met with in wet seasons.

Pleurisy. I do not think it of frequent occurrence. Intercostal and left-side pains are often mistaken

therefor. Bronchitis occurs here chiefly as a sequel, or inter-

current, to other diseases of childhood. Congestion of the lungs may occur sporadically and

Influenza. An epizootic or influenza (?) has twice

Catarrhal fever. If coryza be implied in the term, we are not wholly exempt during wet seasons. Medical treatment is seldom required.

Enteritis. I have met with two cases during the period named.

Peritonitis, idiopathic, Of rare occurrence herc. Diseases of the liver. Functional disturbances are

not uncommon, especially among the unacclimated. Organic lesions, except from intemperance, are rare-

Nephritis, acute idiopathic. Not often observed sumed by the laity for flatulence, or tapeworm. (?)

Heart disease. Usually imported. Such cases seek climate as well as others.

Infantile convulsions. Sporadic cases only. This

Puerperal fever. I have never had a case in San Measles is never extensively epidemic, and not par- Diego during a residence of more than twelve years.

Of all the ills, affections of the fauces, such as ton-Scarlatina. No epidemics of magnitude during sillitis and follicular inflammations, are most prevalent. The former usually ends in resolution, and the latter yields readily to judicious treatment.

Any one desiring further and especially meteorological data is respectfully referred to my contribution to the last census, made at the request of the department.

San Diego, March 10, 1886.

### ERYSIPELATOUS ECZEMA.

BY GEO. N. MONETTE, M.D., OF NEW ORLEANS, LA.

I have observed, during my past year's experience, a great number of cases of an exanthematous erupsubsequent ultimate pathological phenomena, I am as to approximate to the subject of this sketch. compelled to denominate "erysipelatous eczema." As an initiative, a rigor, with features of a pyretic denomination of the malady, an erysipelatous ecnature, vertigo slight, a tongue slightly coated, with a zema, the latter characteristic of red eczema. metallic taste, some pains, arthritic in locality, urine somewhat highly-colored, pulse somewhat excited and full, consonant with the succeeding turgescence of the cutaneous surface.

The primary features, naturally, so greatly resembling scarlatina, would lead one to diagnosticate a case of the latter named malady, yet upon close observation, it develops into an acute form of derma- cure of membranous croup being under trial, the foltitis. There were other features indicating an attack lowing history of an unsuccessful case is written in of erysipelas pure, in its primary manifestation, yet order to swell the list of recorded cases from which, there were no bulke, and no apparent anasarcous when large enough, we must draw our conclusions as condition of the integument, as in erysipelas, but to the efficacy of the method. with a vigorously congestive and hypertrophied contion as profuse as in eczema chronicus.

erysipelas, running its prescribed course within five the child. pheral paresis of neurosal filaments. The last case, to intube the larynx. as I observed it, presented a pachydermatous condition with ruge and some exfoliative desquamation, lected a tube modeled for a two years' old child. were identical with those seen previously.

tics. In the above cases I could detect no cause, nurses. other than hæmato-dyscrasia. There were no cases March 22, 8:30 A.M.—Pulse 120, respiration 22,

The therapeutics were such as the cases indicated, principally ferruginous tonics, quinine added, and alkaline ablutions to counteract the intolerable itching or pruritus. Arsenic was combined with the tonics, also ergotin was given to stimulate proper contractility of the cutaneous vessels. One lady, in her incipient development, was annoyed by persistent nausea, which I obviated by a small mercurial with soda. I had had a practicing physician boast to me some months prior, that he had quite a number of cases of erysipelas. If there was any resemblance at all in the cases, I am sure that my cases were not erysipelas. Urticaria has been a frequently recurring ailment in my experience, and has always been sustion, which, from the prodromal phenomena and the ceptible of ready relief. I have not had any so severe

I feel that the symptoms will sustain me in my

2S5 Camp St.

# INTUBATION OF THE LARYNX.

BY L. H. DUNNING, M.D.,

OF SOUTH BEND, IND.

O'Dwyer's method of intubing the larynx for the

On March 20 I received a note from Dr. J. B. dition, sometimes corrugated and corded like ele- Green asking me to come immediately to Mishawaka phantiasis. Itching was an intolerable accompani- to see a patient of his, and to bring my O'Dwyer inment, yet no wheals were present, as in urticaria, no struments. On reaching the bedside of the patient exudative plastic fluid, as in eczema, and no exfolia. I found a child 21/2 years old laboring under memon as profuse as in eczema chronicus.

Dermatitis acutus would be a suitable synonym, eighteen hours. There was marked cyanosis, labored yet owing to the characteristic features, I think the breathing and great prostration. These conditions compound term more expressive. The duration of had been gradually developing for several hours, and the malady was from one to three weeks, unlike had now reached the point of jeopardizing the life of Dr. Green and I agreed that unless indays, with no unusual developments, as one might strumental means afforded relief death would be the apprehend from such an universal congestion, so to inevitable result of the attack. Therefore, in what speak, of the whole cutaneous surface, with peri- we deemed the discharge of our duty, we proceeded

disfiguring the face of the old lady considerably. The usual method of introducing the tube was ob-Her general health was and had always been good, served, and I found little difficulty in properly placand there were no extraneous concomitants to arouse ing it in the larynx. The tube afforded marked any suspicion of infection. The features present relief, and when the thread was removed the relief as evidenced by the patient's appearance was striking. Now as to the causes. I did observe some years She now breathed easily, the cyanosis disappeared, since that several cooks whom I had treated devel- and she passed into a quiet natural sleep. After oped bona fide eczema of the face, neck and forearm. watching the patient for half an hour, and observing I can recall some of washerwomen who suffered with that the tube caused but little local irritation, and an eruption on the hands and forearms, yet in these that the patient continued to breathe and rest easily, I ascribed the same to the strong chemical and lye we directed that she should take as nourishment only soaps used. All were amenable to suitable therapeu- warm milk, and then left her to the care of efficient

contiguous, no wounds which might have been the temperature normal. Patient had rested well during media of imbibing or localizing any specific virus. night. Had coughed considerably on taking milk or

water, but was breathing easily. The skin was of normal hue, and the patient was bright and cheerful, being inclined to notice her playthings.

March 22, 12 M .- Dr. Green reported patient as

124, and respiration 20 per minute.

March 23, 4 P.M.—Saw the patient with Dr. Green. of the child. The tube was yet in position and there Much can be accomplished by preparatory treatment, was no obstruction to respiration in the larynx, but widespread broncho-pneumonia. The attendants atof the father of the child in carrying it from a warm room into a cool one, as two or three hours after the vagina thoroughly irrigated with hot water. change had been made there were evidences of the development of the lung trouble. The child died at modified in the following way, viz.: The blades are 8 P.M. of broncho-pneumonia.

and found unobstructed. The relief afforded during the first two days by the presence of the tube was marked, and it is the opinion of the attending physicians that had not the imprudent act been performed the night of the 22d the child would have made a

good recovery.

# INSTANCES OF TWO OR MORE CASES OF DIABETES MELLITUS IN MEMBERS OF THE SAME FAMILY OR IN NEAR RELATIVES.

BY AUSTIN FLINT, M.D., LL.D.,

PROFESSOR OF PHYSIOLOGY IN THE BELLEVUE HOSPITAL MEDICAL COL-LEGE, NEW YORK CITY.

Number of instances in which complete family histories were obtained, 36.

Number of instances in which but one case in a family was noted, 27.

Number of instances of two or more cases, 10.

No. 1. Father-daughter. (Both cases observed and recorded.)

No. 2. Brother-sister. (Case of sister only observed and recorded.)

No. 3. Mother-son. (Both cases observed and recorded.)

No. 4. Paternal uncle-nephew. (Case of nephew only observed and recorded.)

No. 5. Brother-sister. (Both cases observed and recorded.)

No. 6. Two sisters. (One case only observed and recorded.)

No. 7. Two sisters. (One case only observed and recorded.)

No. 8. Two brothers. (One case only observed and recorded.

No. 9. Two brothers. (One case only observed

and recorded.) No. 10. Father, paternal uncle, two sisters, two

brothers. (One case only observed and recorded.) one instance in the thirty-six.

14 W. 33d St.

# MEDICAL PROGRESS.

RAPID DILATATION OF THE CERVIX UTERI FOR DYSin a favorable condition. No fever; pulse 118 to MENORRHŒA AND STERILITY.-DR. A. H. GOELET of New York, in a paper on this subject, says:

The proper time for dilatation, is from one week An entire change had taken place in the condition to ten days after the cessation of the menstrual flow. in relieving the rigidity and congestion of the parts, there were all the physical signs of an intense and by using every second day for a week previous to the operation, a tampon saturated with either glycerine tributed the unfavorable change to the imprudence or boroglyceride. A string being attached, it is removed by the patient in twenty-four hours, and the

The instrument preferred is the Palmer dilator, made thicker near the shoulder, and the outer surfaces The tube was removed a short time before death flatter, to lessen the risk of injuring the cervical mucous membrane, and to prevent too much spring; and the shoulder is made more abrupt. The amount of separation of the blades is one inch, at a point corresponding with the internal os, when the instrument is in position. For greater convenience, the thumb screw attached to the handles has been transferred to the left side.

The operation is thus performed. The patient having been anæsthetized and placed on a table in a good light, with the second assistant, who may be a nurse, standing to the right of the patient (left of the operator), the speculum is introduced and the cervix exposed to view. Ordinarily the position on the back with a bivalve or trivalve speculum will answer every purpose; but for cases where much flexion exists the Sims's position and speculum are required. Unless it has been previously done, the sound is introduced first to ascertain the direction of the canal. Then, fixing the cervix, and drawing it down slightly with a tenaculum in the left hand, the dilator, held in the right, is introduced through the external os without much difficulty; but its progress is arrested at the internal os, where the obstruction generally exists. But steady, firm pressure exerted in the proper direction will usually overcome the obstruction, and the beak of the instrument jumps suddenly through the internal os. The shoulder on the blades limits the amount of penetration and prevents injury to the fundus. Where steady and firm, but gentle, pressure does not overcome the obstruction, I prefer to withdraw the instrument and pass successively applicators wrapped tightly with cotton, increasing the size until the dilator can be introduced without force. Harsh means cannot be too strongly condemned. I have never found it necessary to bore the external os with a pair of pointed scissors, and consider it a harsh and unnecessary procedure. Should an exceptional case present in which it was impossible to pass the probe, I should introduce a small laminaria tent and wait.

When the blades have been introduced as far as (Note.) Nos. 1, 3, and 5 are reckoned each as the shoulder, the handles are gradually brought together, the thumb screw being made to follow along and hold the advantage gained when the hand becomes tired, or the dilatation may be done with the screw alone. The amount of dilatation is usually

the full extent of the instrument (one inch), but this acquired narrowing of the cervical canal and lack of depends upon the case. After a few moments the free drainage for the discharges.-Medical News, screw is loosened and the instrument is withdrawn. April 3, 1886. The canal is then cleansed of mucus by means of applicators wrapped with absorbent cotton, and a applicator armed with cotton and dipped in liquid eride depletes the tissues and relieves irritation.

of the American scale. Its introduction is best ac- author draws the following conclusions: complished by means of the sponge tent applicator, the end of which is made to fit in the perforation. the movement is reversed.

The conclusions arrived at are:

First. That rapid dilatation is a perfectly safe, justifiable, and satisfactory procedure, free from the

not require repetition.

conditions: viz., (1) Marked stenosis with or without

INHALATIONS OF COLD AIR IN TYPHOID FEVER.hard-rubber bougie (Hawk's), No. 13 American scale | DR. ALEXANDER M. SOKOLOFF, searching for some (20 French), is gently passed, followed by successive means of intensifying the antipyretic action of cold sizes up to 18 if the case require it. After this, an air, resolved upon undertaking a series of experiments on inhalation-that is, on introducing this cooling carbolic acid is passed through the cervical canal. agent into the lungs, into "one of the regions of A tampon of absorbent cotton saturated with the maximal heat-formation." His observations were boroglyceride, fifty per cent. with glycerine, is placed made in twenty-three cases of enteric fever, five of against the cervix and the patient is transferred to which were of an abortive type, the remaining eighteen the bed to recover slowly from the anæsthetic. Be-being moderately or very severe (two ended fatally). sides possessing antiseptic properties, the boroglyc- The patients were made to inhale from a Niemeyer's cold-air inhaler (see P. Niemeyer's Aertzl. Spretchs., The stem used in the after-treatment is of hard vol. vi., part 3, p. 129), slightly modified by the author. rubber two inches long and slightly curved, having a About 510 inhalations were made in twenty-three cup-shaped shoulder which hugs the cervix and recases, the number of sittings in an individual case mains in position better than the glass stem I formerly varying from six to forty-two; the number of sittings used. It is tunnelled or perforated through the centre to allow drainage. There are three sizes, 10, 12, and five to thirty minutes; and the temperature of the 14 English, corresponding with sizes 13, 15, and 17 air from -2° to 10° R. From these observations the

By using this the stem can be introduced very nearly the author's expectations, their effect is comparatively straight, even when there is considerable flexion. weaker and more fleeting than that of cold-water The curve in the instrument takes the place of the baths, and even of cold air baths. The antipyretic curve in the stem and allows the point of the stem to effect of the inhalations varies according to certain pass the angle in the canal with greater ease. By conditions. (a) The time of the day. The least deseizing the cervix on the side with a tenaculum, and crease of the febrile temperature, varying from o°.2 pressing the stem firmly into the canal, carrying the to o°.5 C., is observed when the inhalations are made handle of the instrument well back toward the per between noon and 6 p.m. The strongest effect, varyineum, its introduction is facilitated. In retroflexion ing from o°.5 to t°.3 C. (after a single sitting), is observed between 7 P.M. and 10 P.M. (b) The stage of On the day following the operation the tampon is the disease. The slightest and shortest effects are obremoved, the canal cleansed of mucus, and the hard-rubber dilators are again passed, after which the stem when the average daily decrease (after several sittings) is introduced as described above and held in position falls short of roc., and when the effect of an indiby a similar tampon of cotton soaked with the boro-vidual sitting does not last longer than one and oneglyceride. This is repeated every day, the stem half to two hours. During the next weeks of the being removed, cleansed, and replaced. After a disease the effects are stronger (often 1° C., after a week of this treatment, during which time the patient sitting), and last several hours. (c) The duration of is confined to her bed, the stem is removed perma- the inhalation is but of slight importance. A sitting nently and she is allowed to get up. In some in- of five to ten minutes' duration gives the same destances the stem is introduced curved at first, and crease of the febrile temperature as a sitting of twenty after the uterus has become accustomed to its presence it is straightened.

minutes' duration. [The author attempts to explain this rather strange circumstance by fatigue of the lungs, in consequence of which the patient makes accelerated and superficial respiratory movements.] At all events, the greatest antipyretic effects are dangers which frequently follow the cutting operations, obtained from sittings of twelve to fifteen minutes' especially the occurrence of cicatricial contraction. duration. (d) The temperature of the air inhaled. Second. If the stem be used in the after-treatment, A temperature of -2° or -3° R. gives almost the same recontraction does not occur, and the operation does decrease of the febrile temperature as the temperature of  $-4^{\circ}$ ,  $-5^{\circ}$ , or  $-6^{\circ}$  R. Relatively stronger effects are Third. The operation is demanded by the following obtained from temperatures of  $-8^{\circ}$ ,  $-9^{\circ}$ ,  $-10^{\circ}$  R. [It would seem natural to expect à priori that the anflexion. (2) Acute flexion without actual stenosis, tipyretic effect ought to be greater, the lower is the the obstruction existing only coincident with menture inhaled. It proved, however, otherwise. struction. (3) Slight stenosis as shown by the pass- The relatively small effect of lower temperatures is age of the sound, dysmenorrhoa and sterility existing attributed by the author to a comparatively shorter without other cause. (4) Mild endometritis from duration of the sittings, the patients being unable to

inhalations.

tion (in average, four a minute) and pulse (in average, becomes deeper, and the pulse fuller.

membranes and skin.

the bronchitis which often complicates enteric fever, and increase the process of ventilation in the lungs.

the patient's general state, sleep, and appetite.

the inflamed respiratory tracts, and hence may be -Medical News, April 3, 1886. employed as a rational therapeutic agent in the treatment of pulmonary inflammation.

[In the Meditzinskoie Obozrenic, No. 13, 1884, p. ical properties of antipyrin and kairin. 12, Dr. V. F. Sprimon points to the disadvantage of Chemical Properties.—[The preparation of antipyrin ing the patient" are entirely groundless. Like Spri- being subsequently diluted, they gradually become paratus superfluous. Valuable information is collected only 0.001 per cent. of the drug is present. Antipyrin Rep. ]- London Medical Record, March 15, 1886.

EXPERIMENTAL TRANSFUSION.—It is now generally recognized that many of the conditions in which the showed (see the London Medical Record, October, operation of transfusion of blood has been regarded 1884, p. 421), when mixed with an equal volume of as essential, may be successfully treated in other ways. a 0.001 per cent. solution of kairin, the blood as-Thus it is admitted that the collapse following severe sumes a claret-red color, and gives the methæmoglobin hæmorrhage is due not to a loss of blood per se, but bands on the spectroscopic examination. The red to a purely quantitive loss of fluid vascular contents blood corpuscles take a cup-like form and brownish -a loss which may be supplied by the intravenous color. But antipyrin remains entirely inactive, even injection of salt solution. Nevertheless, in spite of when a 1 per cent, solution is employed. The same its dangers, occasions arise in which transfusion is in-difference between the two substances is observed. dicated, and in view of the growing disfavor with also, when intravenous injections of their solutions in which the operation is now regarded, much interest dogs are undertaken. B. Blood pressure.—Antipyrin attaches to some recent experiments of Bizzozero and induces an increase of the arterial tension, while the Sanquirico, recorded in the ninth volume of the Arch. latter is rapidly and very considerably lowered by per le Scienza Med.

periments, both the numerical proportion of the red its rhythm remaing regular; while under kairin it corpuscles and the percentage of hæmoglobin were quickens and assumes a filiform character. Some exfirst ascertained. Blood in varying amounts was then periments seem to point out that kairin affects the withdrawn, and an equal quantity of defibrinated cardiac muscle, the cardiac nerve-apparatus remaining dog's blood transfused by the jugular vein. In periods intact. On the contrary, antipyrin appears to act on

perform prolonged inhalations on account of un- of from fifteen minutes to eighteen days the blood of bearable toothache occurring in consequence of in- animals thus operated upon was investigated, and tense cooling of the mouth and teeth.] (e) The the results compared with those of the preliminary mental state of the patient. Both depression and ex- examination. In a second series of experiments, onecitement (often observed in typhus patients) diminish half of the total blood of the animals was withdrawn. or even entirely suppress the antipyretic effect of the defibrinated, filtered through linen and returned to the veins of the animals from which it was taken. 2. The inhalations produce retardation of respira- This procedure was ten times repeated, so that each corpuscle of the animal was subjected approximately six beats a minute). At the same time, breathing five times to this rough handling. Before and after this series of experiments the same close examination 3. The inhalations relieve dryness of the mucous of the quantitative relations of corpuscles and hæmoglobin was instituted, with the result of showing that 4. Inhalations of cold air promote resolution of in no case, in either series, was a noteworthy effect produced.

These observations lead to the conclusion that not 5. Hence the inhalations lead to an improvement in only is the red corpuscle remarkably resistant to rough treatment, but that the transfusion of the defibrinated 6. Inhalations of cold air act antiphlogistically on blood of animals of the same species is not injurious.

PHYSIOLOGICAL ACTION OF ANTIPYRIN AND KAI-7. Systematic inhalations of cold air may prove of RIN. - DR. S. J. PAVLINOFF describes the results of use also in chronic bronchitis, asthma, and emphysema. some experiments as to the chemical and physiolog-

the use of the cumbrous and heavy Niemeyer's inhaler, was obtained from Ferrein, and presented an amorphand advises a trial, in winter time, of inhalations of our yellowish powder of pretty strong bitter taste, cold air conduced from a window through a piece of with aromatic flavor. It was soluble in water and tubing, the patient inhaling the air by means of a ether; the solutions were neutral.] Kairin belongs mouthpiece from a Waldenburg's apparatus. In the to light oxydizable substances; its solutions, kept in Vratch, No. 14, 1884, p. 242, Professor V. A Manas- contact with the air, within twelve hours become of a sein points out that Sokoloff's observations are im- ruby color, and in a few days rich dark cherry-red. portant as a new illustration of the fact that cool air On the other hand, solutions of antipyrin remain in itself is harmless to the febrile patient, and that unchanged (that is, either colorless or yellowish) for the well-known fears entertained as yet by the public a month, or even longer. Being treated by nitric at large, and even by medical men, in regard to "chill-acid, kairin solutions turn to dark cherry-red, and, on mon, Manassein also finds any special cooling ap-yellow, the latter coloration occurring still even when in Dr. R. Neale's Medical Digest, sect. 257: 2. gives no reaction with the acid. But both kairin and antipyrin solutions assume a claret-red color on being treated by perchloride of iron (Fe, Cl,).

Physiological Action .- A. Blood .- As Morokhovetz kairin (after a fleeting initial rise). C. Pulse-Under In the dogs which were the subjects of these ex- antipyrin, the pulse becomes somewhat retarded, but

remains uniform all through. On the other hand, was forcibly strained through a piece of gauze, and kairin brings about interrupted or irregular breathing. then given to the patient to take immediately at sev-[Therefore, as far as circulation and respiration are eral gulps. The decoction was used in that way for concerned, kairin and antipyrin are endowed with ten or fourteen successive days. In none of the padiametrically opposite actions.] E. Salivary Glands. tients did any gastric disturbances occur. The results -Both of the drugs augment the secretion of saliva; obtained by Dr. Maslennikoff were not so successful antipyrin may be detected after a while in the latter, as those by Dr. Putokhin. In only six cases, four of though in small quantities. F. Pancreas.-Neither which were of quotidian fever and two of tertian, a antipyrin nor kairin has any influence on the secretion cessation of paroxysms ensued. In two of the reof pancreatic juice. G. Liver.—Kairin increases the secretion of bile, the color of which gradually turns to black, while antipyrin remains entirely inactive. In none did any alterations in size of the spleen take H. Kidneys.—Neither of the drugs manifests any place. All cases where decoction of lemons had action on the quantity of urine. But the first portions failed were subsequently, mostly very rapidly, cured of urine voided after the introduction of antipyrin by quinine. The general conclusion reached by the contain a considerable quantity of the drug. [There- author is that, as far as severe Caucasian fevers are fore, antipyrin is eliminated from the system through concerned, decoction of lemons has, except its agreethe kidneys and salivary glands. ] I. Motor Nerves. able taste and harmlessness, no advantages whatever Dr. Paylinoff confirms the statement of Morokhovetz over other substitutes for quinine. London Medical that kairin, like curare, affects the intramuscular end- Record, March 15, 1886. ings of the motor nerves (in frogs); the drug acts antagonistically to strychnine (as Professor F. P. Sheremetevsky supposed). Nothing of the kind is describes, in the *British Medical Journal* of Februnoted as regards antipyrin. J. *Reflex Action.*—Antipyrin increases the reflex action (as Professor Demme, of Berne, first proved). K. *Temperature*. urea is evident: Antipyrin depresses the normal temperature, but not at any uniform rate, the latter varying from 0°5 to boy who had the day previous received a rather 2° C. and more; generally speaking, the depression severe blow upon the right lobe of the liver. When is the more marked, the shorter are the intervals be- seen he was complaining of much pain in the right tween the doses administered. Under kairin, the hypochondrium. temperature sinks in consequence of the drug absorb- conjunctiva distinctly jaundiced. The stools were ing oxygen of the blood; hence, the use of karin pale, while the urine was bile-colored, and gave the in cases of pneumonia, chronic pulmonary dis-bile reaction with nitric acid; there was no fever. ease, anomia, cardiac disease, etc., is fraught with But herein lies the important matter. The urine was obvious and immediate danger. In all such cases, highly alkaline. On the addition of nitric acid there antipyrin may be safely and effectively administered, was such violent effervescence that the froth was the drug being indifferent in its chemical behavior forced out of the test-tube, although the urine was towards the blood, and if anything, strengthening the not much more than one inch deep. I got my friend, cardiac action. — London Medical Record, March Dr. Drinkwater, to examine the urine carefully. He 15, 1886. DECOCTION OF LEMONS IN INTERMITTENT FEVER - Having reviewed the literature of the subject

(Maglieri, Stephens, Toropoff, Tommasi-Crudeli, Dolas the seat of production of urea. Dr. Graves has minico Azzillo, Norman Forbes, Lauchlan Aitken, already reported several cases of absence of urea (Karkazsky Meditz. Shornik, vol. 39. Fasc. ii, 1885, the ammonium carbonate, but here we have a his-D. 29) to describe his own observations on twenty tory of the organ involved. - Medical News, April 3. cases of intermittent fever, treated by decoction of 1886. lemons in the Military Hospital in Temir-Khan Shura, Dagestan region. Seven of the patients were affected Maglieri's method, that is, every evening a whole Woch., No. 11, 1886. fresh lemon was cut into very thin slices, put into

the latter, and to leave intact the former. Respira- eighteen ounces of distilled water in an earthen pot, tion.—Antipyrin produces a very considerable quick-ening of the respiration, the type of which, however, coction remained. On the next morning the liquid

HEPATIC ORIGIN OF UREA -DR. D. W. AITKEN,

Early this month (January) I was called to see a The skin was slightly, and the reports that the alkalinity was due to ammonium carbonate, and, on estimating the urea, he found only three per cent.

This evidence seems to point strongly to the liver Putokhin), Dr. Nikolai N. Maslenikoff proceeds which he believed to be represented in the urine by

A MICRO-ORGANISM IN THE TISSUES OF HEREDITOby the fever for the first time, three for a second; the remaining had passed previously through several malarial attacks. In thirteen of twenty cases a quotidian, litic children, occurring in the skin in pemphigus, in and in seven a tertian, variety was present. In six- the liver, and in bone-tissue. They are streptococci, teen cases the splech was found to be enlarged and arranged in chains. The authors have never found painful (in fourteen, both during the paroxysms and Lustgarten's bacilli. The micro-organisms found octhe intervals). The decoction was prepared after curred in the fine capillaries.-St. Petersh. Med.

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, No. 65 RANGOLPH STREET,

CHICAGO, ILLINOIS.

SATURDAY, APRIL 17, 1886.

IN WHAT PLACES SHOULD THE ANNUAL MEET-INGS OF THE AMERICAN MEDICAL ASSOCI-ATION BE HELD; AND WHAT ARE THE NECESSARY LOCAL EXPENSES CON-NECTED WITH SUCH MEETINGS?

These are questions of sufficient importance to demand more attention than they have hitherto received. To prevent the membership and the influence of the Association becoming too much restricted within narrow limits, and to secure the stimulating influence of these meetings upon the formation and support of State and local societies in all parts of the country, a constitutional provision was adopted prohibiting the holding of two annual meetings in succession in the same place. Consequently the general policy has been to have the annual meetings alternate from one section of the country to another, depending much upon such invitations as might be extended by the local profession in different cities. While the leading objects sought to be accomplished by holding the meetings in different parts of the country were actually attained, and the social organization of the profession in the different States was rapidly adbeen obviated.

curred in a smaller city, or even in a large city not banquet alone was said to have cost more than

surrounded by populous States in which the profession was well organized, the number was small and the income small. For although the annual membership fee was due from all permanent members whether attending the annual meetings or not, yet the Treasurer's reports show that comparatively little was actually paid except at these meetings. While the Transactions of the Association were published in a single volume yearly and distributed from six to nine months after each meeting, the amount actually collected from permanent members not at the meetings was so small that the number losing their membership from non-payment of their dues came to be nearly equal to the annual addition of new members.

Since, instead of one annual volume, each member receives a valuable medical journal each week, the financial evils just mentioned have greatly lessened and the annual income from membership dues has doubled. And yet so apparent are the advantages of a meeting in a large city in the centre of populous States and well organized State Societies, both in securing the addition of new members and larger revenues, that careful attention should be given to the subject by each nominating committee. Another evil of greater magnitude developed early and increased rapidly in connection with the practice of meeting successively in different sections and on direct invitations from the profession of different cities in which the meetings were held. Naturally, when the profession of a city extended an invitation to the Association to hold the next annual meeting there, they assumed the responsibility of furnishing all necessary accommodations for the meeting at their own expense, as well as the additional expense of what hospitalities in the way of banquets, entertainments, etc., might be provided.

At the first two or three annual meetings the hospitalities were cordial, but of a private or individual character. But at the third annual meeting, which was held at Boston, in 1849, one evening was set apart for a general social melee or promenade in a public hall for the laudable purpose of affording more vanced, some evils were developed which have never direct social intercourse of members from all parts of the country. With genuine good taste the local It was found that the income of the Association committee provided no other refreshments than coffee, was made to depend much upon the size and location simple cakes and fruit, on a side table where any one of the city in which the meetings were held. When who wished could partake when they pleased. But a meeting was held in any of the great cities sur- this simple and very pleasant example was quickly rounded by States in which the profession was well converted into the form of a "public banquet" which organized, the number in attendance was large, and each subsequent local Committee of Arrangements enthe income from the payment of membership dues deavored to make more magnificent and costly than was correspondingly large; but when the meeting oc-their predecessors, until at New York, in 1853, the

\$10,000; and the next year at St. Louis its extravagance and the excesses accompanying it, led to the adoption of a resolution offered by the late Professor S. D. Gross, forbidding all subsequent Committees of Arrangements to provide any public banquet in connection with the annual meetings of the Associaation. This checked the evil in that direction, and still the rule was often evaded by accepting banquets tendered in the name of the citizens instead of the local profession, and costly entertainments and private receptions multiplied, not only sufficient to constitute a heavy tax upon the local profession, but also to so completely occupy all the time intervening between the necessary sessions of the Association and the Sections, as to leave hardly an hour for special committees to do any work that might be assigned to them, or for fatigued members to obtain a much needed rest.

It was to still further lessen these evils, that in 1867 a rule was adopted that each alternate annual meeting should be in Washington, the Capital of the country, and the strictly necessary expenses for rooms to accommodate both the general sessions and the Sections, and the printing of programmes for all future meetings, should be paid from the treasury of the Association, thus relieving the local profession from all strictly necessary expenses for the annual meetings. Nevertheless, wherever an invitation has been accepted to meet in any city, the parties giving the invitation have continued the practice of filling every evening with an excess of expensive entertainments or receptions, and sometimes crowding excursions into a part of the last day of the meeting. We think the time has come when reliance upon invitations to meet in one city or another should be abandoned and the selections should be made with reference to securing the largest increase in the membership, and as far as possible strengthening the State and local organizations in all parts of the country. Inasmuch as the Association pays for all the necessary accommodations and printing for each meeting, there should be no direct or implied money tax on the local profession at the place of meeting, but only the services of an efficient Committee of Arrangements. In all the great cities there are wealthy citizens both in and out of the profession who would deem it a pleasure to give receptions enough to occupy one evening, and if any considerable number of the members of the Association desire a social dinner or banquet, it should be provided at their own expense and under their own supervision, as is the case in the British Medical Association and in similar organizations in other countries.

# MOOT POINTS IN SYPHILIS.

When, a few months ago, it was announced that MR. JONATHAN HUTCHINSON, the Lettsomian Lecturer of the Medical Society of London, for 1886, would lecture on "Some Moot Points in the Natural History of Syphilis," dermatologists, syphilographers and surgeons generally were on the qui vive to see how the subject would be treated by the generally acknowledged master pathologist and surgeon. American surgeons and dualists were quite prepared for an opening shot at dualism, but few, we think, were prepared to read the following: "A dualist is, I suppose, one who holds that there exist two quite distinct and independent cartagia, one of which produces a noninfecting sore, and the other syphilis." Under the circumstances of place and subject it seems that the lecturer should at least have been entirely familiar with the ground of the "the opposition;" the more especially since in the next breath he begins to discuss the question at issue.

Beginning with a series of hypotheses, and a play upon words as to the difference between "specific contagium and specialized contagium," the lecturer built up a very pretty argument in favor of unicitybut one in which the facts of Basserau, Diday, Rollet, Fournier, Coby, Ricord and, not to make the list too long, Pick, Kraus, Reder, Henry Lee and Morgan (quoted by Mr. Hutchinson in support of unicity), Wigglesworth and R. W. Taylor are to all appearances utterly ignored. Equally surprising is the fact that so good a pathologist and so close a student seemingly forgets the pathological differences between the chancre and the chancroid. Can it be that the "specific contagium" of the one produces cell-proliferation, while the "specialized contagium" of the other causes distinctive metamorphosis? face of the mass of evidence to the contrary Mr. Hutchinson says: "So far as I can see, all a priori probability favors the suggestion that non-indurated sores are produced by the secretion of true chancres. which have been changed in character either by the inflammatory process, or by the non-susceptibility of the tissues of the recipient." In that portion of his first lecture in which he discusses this question the only names mentioned are those of Danielson, Lee, Morgan, Gascoyen and Bidencap. The conclusion of Bäumler that "the chancroidal poison cannot even be compared with the syphilitic poison, to say nothing of regarding them as identical," appears to have escaped notice.

Few surgeons in this country or on the Continent, we think, will agree that "scars in the groin are presumptive evidence of syphilis." We must know how

the patient was treated for the sore which preceded of true gonorrhoa, as Mr. Hutchinson suggests, the the bubo, and whether, as is sometimes the case with chancroidal buboes, the glandular trouble appeared after the primary sore disappeared. But apart from this Mr. Hutchinson is certainly at variance with authorities in holding this view. The best authorities are agreed that the syphilitic bubo usually terminates by resolution, while the chancroidal is inclined to suppuration. There is, therefore nothing remarkable in Mr. Hutchinson's experience of having never seen a suppurated bubo in the armpit in association with chancre of the finger. We neither see anything remarkable in this fact, nor can we agree with him that it indicates that the "soft sore but rarely causes bubo"-an inference which he draws. If it be his observation that "it is not very exceptional for the typical chancroid to cause no enlargement of the glands at all" his experience must be exceptional; and broad general deductions should not be drawn from such an experience. With such views as to the nature and pathology of the chancroid we are prepared for an announcement that phagadæna is as frequent a sequence of chancre as of chancroid, but scarcely for the sweeping statement that "all will admit that syphilitic inflammations have a remarkable tendency to become phagodænic," unless the chancroid be classed as a syphilitic inflammation. Nevertheless, within a page of the statement just quoted he says that it is a question whether the infecting or the non-infecting sore is the more liable to phagadæna.

We can agree with the lecturer that too much importance has been attached to induration of the chancre as a symptom of syphilis. Induration may be entirely absent, or it may vary widely in degree and duration. Chancrous induration is not altogether so common, in the opinion of the best authorities, as glandular induration. Mr. Hutchinson thinks, however, that we must therefore come to the conclusion that "syphilis can begin without any induration whatever." He does not think it very probable that an intra-urethral chancre may occur without pain, without signs of obstruction, and without external induration or discharge; but this is certainly as probable, if not more so, than that syphilis can be introduced into the system without any abrasion. In connection we cannot always consult our convenience. The with such cases he refers to those in which a patient has a urethral discharge, simulating gonorrhea, or gonorrhea itself, and in which syphilis, without the detection of a chancre, follows. We cannot believe that there is

acute urethral inflammation may act in preventing the local adhesive inflammation of the chancroid, and this is a much more tenable hypothesis than that the syphilitic virus is absorbed directly, without any sore

We may pass over the remarks on rupia and psoriasis palmaris, syphilitic lupus, periostitis and other symptoms commonly classed as tertiary, but which are not strictly confined to that period, and notice what the lecturer has to say of the influence of mercury as antidote. His remarks on this subject should be read by every one who is partial to large doses of this drug in the treatment of syphilis. Indeed, since we know that small doses of mercury increase the number of red blood-corpuscles, and that large doses diminish the number, it seems strange that anyone should now advocate or administer large doses. Recent experience, says Mr. Hutchinson, has much strengthened the claim of mercury to rank as an antidote to the virus of syphilis, and the fact is "one of extreme importance in reference to a very important department of general pathology and therapeutics. In connection with it we may suitably bear in mind the great repute which weak solutions of corrosive sublimate have recently obtained in the prevention of septic processes." The form of mercury which he has used almost exclusively is the gray powder, in one grain-doses, from three to six times in twentyfour hours, and seldom for a shorter time than six months in the first instance. "If this dose be given to a patient with an indurated sore, but in whom, as yet, no secondary symptoms have appeared, the result will usually be that none will occur." Neither the preparation of mercury used nor the time of giving it will be endorsed, we think, by the majority of syphilographers, The weight of authority is certainly against the administration of the drug before the appearance of constitutional symptoms (save in exceptional cases). Otherwise it is entirely probable that a patient may take it for some months, and have much mental anxiety, when he has only had a chancroid. He admits that the grey powder is the "most convenient" form, but syphilis is a disease in which evidence seems entirely sufficient to show that the course of a case is not affected by delaying the mercurial treatment until constitutional symptoms appear.

The third lecture is devoted entirely to questions any good reason for terming such cases "gonorrhea- concerning the inheritance of syphilis, and it is in this syphilis" because the affections are at first coincident. particular field that Mr. Hutchinson has done some It should be remembered that the urethral discharge most excellent work. The points discussed in the is by no means necessarily gonorrheal. In a case lecture are as to transmission to many children in

succession, the supposed connection between syphilis for a time, apart from absolute death. In such a persons, malformation of joints in consequence of infantile syphilitic periostitis, ringworm of the tongue, possibly sometimes connected with hereditary syphilis, chronic skin diseases due to hereditary syphilis, diseases of the nervous system, and idiocy in connection with inherited syphilis. As already stated, his work in the way of elucidating problems in hereditary syphilis is monumental, as may be seen in the almost unparalleled article on "Hereditary Syphilis," by Dr. J. William White, in Pepper's "System of American Medicine." We could wish that much more time could have been given by Mr. Hutchinson to the questions discussed in the third lecture. A full discussion of these questions could very properly have taken up two lectures, especially had those spoken of in the first been omitted altogether.

# ARTIFICIAL RESPIRATION AND STILLBIRTH.

In the American Journal of the Medical Sciences, for January, 1886, Mr. Francis Henry Champneys, of London, has a most instructive article "On Some Points in the Practice of Artificial Respiration in Cases of Stillbirth and of Apparent Death after Tracheotomy." Before entering into a consideration of the subject proper, however, he rightly draws attention to the fact that "deadbirth" and "stillbirth" are not synonymous; for while all deadborn children are stillborn, all stillborn children are not deadborn. "A child born alive but 'still'-that is, generally, but not necessarily, with its heart beating, but without movement-may be in one of two stages or states, for the description of which we are indebted to Cazeaux. In the first, which he calls the 'apoplectic state,' the surface is livid, but the muscular tone is not lost, and there is no response to reflex irritation. In the second, which he calls 'syncope,' the surface is pale, the muscular tone is lost, and there is no response to reflex irritation. These two or flabby stage of asphyxia."

sometimes survive is remarkable, and the authenticated cases show that the greatest caution should be used to guard against premature burial or autopsy. The prognosis in cases of stillbirth, says Mr. Champneys, is of the utmost importance as a guide to a considerable period, for the heart may cease to beat method of removing foreign bodies from the air-

and rickets, ulcers of the palate and pharynx in young case, when the heart has ceased to beat for a considerable time (say ten to fifteen minutes), it might be well cautiously to insert a needle into its apex, before abandoning all efforts at resuscitation." As regards how long attempts at resuscitation should be persisted in on the sole ground of continued action of the heart, he thinks that if no attempts at spontaneous breathing occur within an hour, and especially if the heart act with diminishing force and frequency, in spite of the attempts at artificial respiration, the prognosis is hopeless. Upon the diagnosis of the state of asphyxia depends the second point in the prognosis, it being usually favorable in the livid stage, as this stage has the advantage of retaining reflex irritability. "If the heart is beating fairly, it is often sufficient to lay the child on its face, wipe out its mouth, and rub it along the spine, a far better way of exciting an inspiration than slapping the nates." But the prognosis is far more serious in the pale or flabby stage, and depends on the ability of the acconcheur to raise the child from the condition of flabbiness and induce a condition of reflex irritability. "Until this is done, all rubbing, slapping, bathing, etc., are simple waste of time. While the heart beats regularly, we may still hope for recovery up to a reasonable length of time. An important element in prognosis is the state of the pupils: they are widely dilated in asphyxia, but at once contract when respiration is properly established.

En passant Mr. Champneys has a word for those who tie the cord early. "It appears that a child gains some four to six ounces of blood after birth, the principal object of which is probably to furnish an additional supply for the newly established pulmonary circulation. This blood is not forced into its body so much as drawn into it by the first inspiration. . . . . In ordinary cases, therefore, it is best to tie the cord late . . . unless manipulations are indicated which require the child to be free from its The usual advice that half an ounce mother." stages are also known as the livid stage and the pale or an ounce of blood should be allowed to escape from the cord in cases of livid asphyxia is probably The length of time which apparently dead children founded on the livid appearance of the child. "The child, however, has less blood than it should eventually have, and has no more than a child in the pale stage, the difference being one in the distribution rather than the amount of blood."

In artificial respiration four objects are aimed at: treatment, but is usually not made. "The certainty removal of foreign bodies from the air-passages; proof death in the cases of fresh children depends on the curing the patency of the air-passages; excitation of certainty of the cessation of the heart's action during the circulation; ventilation of the lungs. The best

passages is, according to our author, the following: ger of rupturing the lungs may be averted by gentle-Lay the child on its back, with the head hanging ness and leaving the nose free. The imaginary danover the edge of a table, a little lower than the rest ger of inflating the stomach need not be discussed. of its body. Wipe out the mouth with a soft handkerchief. Press the thorax gently with one hand, neys has but little to say, but that little is entirely to stroking the trachea upwards with the other, and retain the finger at the top of the trachea until the next movement is complete. The mucus will gravitate survive without breathing, and the higher the temperatowards the posterior nares. Put a handkerchief ture the more quickly it dies. To keep a child in a over the child's mouth, blow gently, and the mucus hot bath until respiration is established is, therefore, will be blown out of the nostrils, but not into the a wrong practice. The hot bath can, however, be operator's face. Should there be a large accumula- used in alternation with the cold bath, but merely as tion of mucus in the air-passages, a No. 9 elastic a means of increasing the effect of the cold bath, and male catheter should be introduced into the trachea, in the pale (flabby) stage of asphyxia this also is useso that the point is three and a half inches from the less. Under such circumstances it is best to wrap lips, which will secure its passage through the glottis, the child in a warm flannel, and not to waste time on but not to the bifurcation of the trachea. Press the baths, but to proceed at once to the establishment of thorax gently with one hand to prevent the entrance respiration." The treatment advocated in this adof air, and blow through the catheter. In this way mirable paper is summed up as follows: Never hurry; the mucus will be blown into the pharynx, as the it is not a question of seconds, and success depends compression of the thorax with the hand prevents it upon a fine exercise of the judgment. Make a good being carried into the lungs. "This manœuvre is diagnosis, first, as to life or death, second as to the more efficient and far pleasanter than the suction usu- stage of asphyxia (if life is not extinct). If the child

the circulation, and ventilating the lungs, Mr. Champ- dead. If the heart be not beating, death is not cerneys thinks that Schultze's methods of artificial res- tain, unless it can be proved to be inactive for some piration accomplish them better than anything else time. If the child is livid and not flabby, it will (though for exciting the circulation pressure of the probably come round; wipe out its mouth and pharhand over the præcordium has an effect in raising the ynx, and rub it with a soft cloth down the spine, press blood-pressure and exciting the action of the heart, gently on the cardiac region. If this produces and is a chief reason for the success of the methods no effect, inflate the lungs by the mouth, and then by of Howard and Hall). The only two trustworthy Silvester's method. If air enter the lungs, well and methods for ventilating the lungs are those of Schultze good; if not, try Schultze's method, or insert a and of Silvester (with the modifications of the latter catheter, as described above. On the first sign of by Pacini and Bain). As these methods and modifi- muscular action, plunge the child into cold water, or cations have been known for more than a decade it into alternate cold and hot baths. Vary the treatin Schultze's methods the diaphragm is made to judgment; remembering what may be expected of vantage of being somewhat more violent than the cases. Watch for signs of resuscitation, namely, imothers (which can be in a measure controlled by the provement in the color, in movements, in cardiac assists in removing mucus and other substances from continually improving. the air-passages; and that in some cases it really provides patency of the air-passages when other methods have failed. In case it be desired to practise direct inflation of the lungs, the operation may be made clean by laying a towel over the child's secretary, L. P. Gibson, M. D., of the State Medical mouth and breathing through it. The asserted dan- Society of Arkansas, have sent out the following cir-

As regards the action of heat and cold Mr. Champthe point: "It has been proved that, within limits, the lower the temperature the longer can an animal ally recommended; it has answered well in practice." be macerated, it is obviously dead and past hope. If For securing patency of the air-passages, exciting the heart beat, ever so slowly and feebly, it is not seems unnecessary to give them in detail in this place. ment between occasional inflation of the lungs, arti-Silvester's method does not imitate the natural ficial respiration, pressure over the cardiac region, breathing of the child, which is diaphragmatic, while baths, irritation down the spine, according to the descend slightly. Though his method has the disad- each method, and that no one will suffice for all operator), it has the two advantages that in the ex- pulsations, as described above. Never be content piratory position the child is inverted, and gravity until the child breaths regularly, and appears to be

> STATE MEDICAL SOCIETY OF ARKANSAS, CHANGE OF PLACE OF MEETING.

The president, W. H. Hawkins, M. D., and the

the Society:

have afflicted Helena, and the probability of an over- the Bill. flow cutting off communication with that city about the time of the meeting, the committee of arrangements has given notice that it would be advisable to change the place of meeting. Therefore the eleventh annual session of the State Medical Society of Arkansas will be held in the Council Chamber at Little Rock on Wednesday and Thursday, April 28 and 29, 1886, commencing on Wednesday at 10 a.m.

"It is of the greatest importance that members who intend to read papers will send the titles of the same to the secretary at once, so that a complete programme can be prepared.

"Questions of grave importance to the medical profession, not only of Arkansas but of the whole nation will be considered, and every member ought to attend and induce others to come and join the society.

"Arrangements have been made for reduction of fare on the railroads."

A BILL FOR AN ACT TO REGULATE THE PRACTICE OF MEDICINE AND SURGERY IN THE STATE OF IOWA has recently passed the Legislature of that State and become a law, though its penalties are not to be enforced until January, 1887. The law is similar in many of its features to the well known Illinois law for regulating the practice of medicine and surgery. The Bill in full may be found in the department of State Medicine in this week's issue of The Journal.

THE ADDRESS IN MEDICINE BEFORE THE BRITISH MEDICAL ASSOCIATION .- It is announced that Dr. J. S. BILLINGS, U. S. A., has been selected to deliver the Address in Medicine before the next meeting of the British Medical Association, in place of the late Professor Austin Flint. The well known ability of Dr. Billings and his familiarity with general medical literature, makes the selection one eminently proper.

DEATH OF A MEDICAL STUDENT.-MR. GEORGE A. Cook, a student of the Chicago Medical College, died April 8, 1886, at the residence of his father, Dr. E. P. Cook, in Mendota, Ill., of pneumonia, aged 21 years. He was a good student and a young man of much promise.

MEDICAL LEGISLATION IN OHIO.—A note from

cular regarding the change of place of meeting of that a Bill establishing a State Board of Health has passed both branches of the Ohio Legislature and "On account of the terrific fire and cyclone that become a law. We have not as yet any details of

# SOCIETY PROCEEDINGS.

SUFFOLK DISTRICT MEDICAL SOCIETY.

SECTION FOR CLINICAL MEDICINE, PATHOLOGY AND HYGIENE.

Stated Meeting, March 10, 1886. F. I. KNIGHT, M.D., CHAIRMAN. ALBERT N. BLODGETT, M.D., SECRETARY.

The first work of the evening was the presentation of lantern-slides, by Dr. H. O. MARCY, containing PHOTOGRAPHIC YIEWS TAKEN FROM MICROSCOPIC PRE-PARATIONS OF THE VARIOUS BACTERIAL FORMS

FOUND IN THE COMMUNICABLE DISEASES, as well as a series of preparations showing the impurities contained in the atmosphere, in water, in

clothing, etc.

Dr. Cushing being called upon by the Chairman, remarked that he had nothing to say other than he had recently said before this Society in a paper upon an allied topic. One thing is becoming more and more evident, and that is the great and increasing degree of importance which is to be attached to the various forms of bacterial organisms, both as causes of, and factors in, the origin or the course of a large and increasing list of diseases. It is an undeniable truth that these lower forms of growth are associated in many ways with the health of the human subject, and the degree of weight to be attached to their presence cannot be overestimated. The technical difficulties attending the study of these organisms in their relations to human health have been, and still are, greatly magnified, and the processes of their preparation and preservation made unnecessarily obscure. There is no difficulty in the successful study of bacteria; any careful person can fully and completely understand the technique, and easily carry out the details of an examination of the animal tissues or secretions in relation to the presence or absence of disease germs. Test tubes may be thoroughly sterilized in the kitchen oven, and a culture chamber may be made from two sonp-plates placed one upon the other. An even-temperature oven may be made from a wash-boiler, and the entire process may be so simplified that any good microscopist may be able to carry it out. Septic bacteria are easy to cultivate and to examine. As we become familiar with the processes of culture, and realize that a single touch of a needle is sufficient to infect an aseptic culture, we form a better comprehension of the great importance of absolute cleanliness on the part of the surgeon, who may easily carry fatal infection-a veritable death-sentence-beneath his finger-nail. When Dr. R. Harvey Reed, of Mansfield, Ohio, informs us a patient with a surgical disease takes cold in the

toward symptoms.

exhaustive studies in the department of bacteriology, and had had the common experience, that the ordinounced. nary means of illumination are quite insufficient for the purpose of detecting these small and refractory gradual and insidious growth of the symptoms, which bodies.

that it would cost here the sum of thirty dollars, comfort after a considerable period. This is one which seemed too much to devote to one piece of cause why their origin is not recognized by the paaccessory apparatus. Dr. Goodwin therefore ob-tients themselves, and another reason for this may be tained two ordinary plano-convex lenses of about 1½ found in the fact that the majority of them are of so inches focal distance, and mounted them in metallic general a character that they can readily be referred rings. These were now adjusted to each other so as to form almost a double convex lens, and are so adapted to the sub-stage of the microscope as to act as a sub-stage condenser. The surface of the upper lens is now ground at its centre so as to form a hori- and how far they are due to other causes. As the zontal area of about one-half inch in diameter; the cases become more severe the symptoms become entire remaining ovoidal surface is rendered opaque more distinct and the diagnosis easier. by gently roughening it with a corundum strop, and the instrument is ready for use. With this means of poisoning and then proceed to the analysis of the illumination, Dr. Goodwin has been able to secure symptoms. unusual power of penetration and definition, and has found that some forms of bacillary organisms are 55 years old, a horse-car washer. Complains of "rollclothed with a pellucid envelope or capsule, which ing in the stomach" followed by flatus and tenesmus he has not seen mentioned by any other observer, in and has attacks of cold chills and weakness with a relation to these bodies.

Dr. W. N. Bullard read a paper on

### CHRONIC TEA POISONING.

I desire to night to draw attention to an affection diem. He is emaciated and has a cachectic appear-which from its great frequency, the peculiar discom-ance. The heart and lungs are normal, so far as can fort of its symptoms and its relative curability, is be detected, except that the second sound is accentuworthy of the careful consideration of the profession. ated in the region of the pulmonary artery. Urine At first sight it may seem surprising that so little has is normal in appearance, contains no albumen. Pabeen either written or spoken in regard to this subject, tient has lumbago and probably hæmorrhoids. but I believe this to be principally due to two causes, firstly, the apparent ease with which any symptoms thus produced could be checked, by withdrawal of ous. She feels excited "as if afraid of somebody," the existing agent, and secondly, to the indefiniteness especially when in a crowd. She used to have vertigo, and obscurity of these symptoms and the difficulty of but has never fallen. For two years she has been proving their origin. During my study of this subject to distress in the epigastrium, palpitation, I have become more and more convinced that the constipation, a dull heavy headache and dizziness, no latter difficulty is our greatest obstacle to a thorough cough. She drinks tea three times a day and also knowledge of this affection, and that it is only to be between meals. overcome by the most careful investigation of each individual case and by the comparison of statistics poisoning; anæmia." This patient applied at the drawn from a considerable number of such cases.

In the literature of this subject, which is curiously scanty and much of which has been written by the laity or from a non-professional point of view, I have been able to find only general statements, but few

definite proved facts and no statistics.

poisoning, putting aside all acute cases, where large but there was no distress after food, bowels regular. quantities of tea have been imbibed at a single sitting Had palpitation. Had never had rheumatism. Drank and all those of tea-tasters or persons by profession tea three times a day and also between meals. Under exceptionally exposed to its toxic influence. In both proper treatment she reported herself well on the 2d these classes the symptoms are plain and well-known, of April.

wound, we now look for the signs of some septic and Morton's paper on tea-tasters leaves little more contamination as the cause, and frequently find that to be done in that direction except by those having absolute cleanliness will put an end to all the un-special opportunities. The cases which I wish to consider are of the sort which present themselves Dr. Goodwin said that he had made some rather daily to the general practitioner with symptoms sometimes obscure, and sometimes more or less pro-

The first fact which strikes the observer is the very at first are frequently so slight and so indefinite as to He thought to buy an Abbé condenser, but found be scarcely noticeable and only produce serious disto some other source. Hence arises the difficulty in diagnosis, which so frequently occurs, and there are many cases in which it remains impossible to determine how far certain symptoms are the result of tea

I will first describe a few cases of typical tea-

Case 1. Boston Dispensary. Thomas G., about tendency to faint. He has staggered several times and come near fainting while at work, but has never fainted away. Has lost flesh lately. No palpitation; no cough. Drinks from one to three pints of teaper

Case 2. Carney Hospital. Women, 40 years old. Diagnosis, "tea-dyspepsia." Patient is markedly nerv-

Carney Hospital Out Patient Department on March 19, 1885, on account of bilateral headaches, frontal and occipital, accompanied by nausea and vomiting, which had occurred once a week for the preceding six months. She had been subject to these previously, but they were less severe and for about two years had In this paper we desire to confine our consideration, been entirely absent. Her appetite was poor and to the cases of ordinary sub-acute and chronic tea- she had a feeling of "weakness" in the epigastrium,

Case 4. Girl 13 years old. Complains of pain in both sides, especially the left, nausea, but no vomiting, see patients in whom the influence of tea is plainly headache frontal and bilateral, palpitation and dysp-evident as a cause of depreciation of the general ncea. Bowels constipated. The heart and lings health. Dr. Putnam has seen many children, as well were normal, as far as could be detected. There was as adults, who were suffering from the effects of tea. some tenderness over the epigastrium. Drank one Frequently the diagnosis is a matter of great difficulty; to one and a half cups of tea three times a day. This and in obscure and puzzling cases it is not to be foris a typical case of light tea-poisoning.

with the headache. Bowels regular. Drinks pure the harmful agent. black tea strong three times a day and occasionally between meals. Distinct improvement in a week amount is sufficient to keep up the trouble. under treatment.

strong, being made of such a concentration that the bottom of the tea-cup may be plainly seen through fire all the time, and drinking from the dregs in the proved by discarding these additions to tea as usually palatable infusion. taken in this country. All these substances are nervous stimuli, and all are capable of injurious influence correct estimate of the amount of tea which is taken. upon the nervous system.

The action is of the same nature as the stimulation from alcohol; but the effect is somewhat different, owing to the difference in the manner of taking the cases it is possible to persuade the victim to give up two substances, and probably too, owing to a difference in the particular mode of action of the substances. Dr. Bowditch related the case of a prominent politician, who was expected to appear and speak on a certain occasion, but who found himself quite to the heart, which disappear on stopping the tea. unfitted mentally and physically to undertake the tea, he was able to keep his engagement, and to make signs of uneasiness or exhaustion.

or tobacco, and the deleterious effects of these sub-Dr. Bowditch's personal experience, he found that after once being saturated by coffee, a period of abstinence of fifteen years was not sufficient to remove the effect, but the moderate indulgence in coffee portion of such prepared fig is boiled in the water; Bowditch has never heard a paper which so fully analyzed and so clearly explained the action of tea, as coffee and a good deal of milk. the work of the present author has done.

Dr. C. P. Putnam remarked that many physicians gotten that the abuse of tea may be the sole cause. Case 5. Woman 60 years old. Dull frontal head- One frequent symptom is that of ill-defined distress, ache followed by "numbness" all over, which seems or at times actual pain, in the region of the heart or to be a sensation of weakness rather than a paræs-stomach, or in some other part of the abdomen, with thesia. Attacks of dizziness, when she fears that she constipation, which is proved to depend on the abuse will fall. Appetite poor. No vomiting, but nausea of tea, and disappears upon the discontinuance of

The tea must be entirely withdrawn, as a small

Dr. Marcy stated that he had had two cases of Dr. Henry I, Bowditch said that this paper is a tea-tasting. One of these was a famous case. The most useful and instructive contribution to what we patient was well known in Boston as a celebrated knew only somewhat distinctly concerning the effects tea-taster and confidential buyer for a well-known of tea, when its use has been persisted into such an tea house. This patient died, and at the autopsy extent as to produce true toxicological results. Dr. many gummous deposits were found distributed Bowditch has very decided views on the subjects of through the various organs of the body. The patient coffee and tobacco, but he has not so frequently ob- had syphilis of Chinese origin. Another man was in served the deleterious action of tea. The Chinese business in Boston. He was habituated to tobacco, in the tea-growing regions of the Flowery Kingdom smoking fifteen cigars daily. He was also a teatake their tea in a manner very different from that to taster, but never was affected by any symptoms rewhich we are accustomed. The infusion is not so ferable to the tea. Servants are fond of tea, and the infusion. They use neither sugar or cream in the teapot. The value of tea as a beverage is in its tea, and Dr. Bowditch has found the flavor vastly im aroma, the dregs furnish a bitter, astringent and un-

Dr. Bullard stated that it is very hard to form a This is particularly difficult in regard to servants, who are apt to underestimate the quantity they drink.

Dr. Weeks asked in how large a proportion of the use of tea.

Dr. Schofield said that the children of those who make large use of tea, and give it to their children, are often the subjects of obscure symptoms referable

Dr. E. W. Cushing stated that tea and coffee are effort. However, by the aid of a quantity of strong much alike in one respect, from the fact that both contain a large amount of tannin, which is fully a long and brilliant speech without betraying the capable of causing a portions of the symptoms described, and may be the origin of a part of the When the system is once saturated with either teal trouble. If tea were made in the manner employed in China the tannin would not be taken, and this stances are once induced, there is nothing to do but element of disturbance would be removed. Coffee to discard the articles at once and completely. Noth- may be prepared so as to deprive it of the tannin it ing but "total abstinence" will be of any avail. In contains, and it is then well borne, even by children. It may be best made in this way: Figs are taken as they are imported, and are baked so as to be of a brown color, and of taste and smell like caramel. A after this long interval was followed by the immediate after boiling for a few minutes the coffee is added reappearance of the original symptoms, on account and prepared as usual. Then an equal quantity of of which the beverage was originally discarded. Dr. milk or cream is added and the coffee is served. Coffee thus prepared consists of infusion of fig, some

Dr. Goodwin said that the tannin content of tea

and coffee is so great that the tincture of chloride of organic or functional activity, or both. A very imiron cannot be given at the same time on account of portant phenomenon in relation to the detrimental the formation of ink in the stomach, and the conse- action of tea is its effect upon the teeth and other quent nausea.

Bigelow was accustomed to speak of the tea and coffee as useful adjuncts to other forms of food and drink, but that they are only harmful when taken of the parents are almost universally firm and dura-

injurious effect of tea after long infusion, Dr. Bull daughters, however, are found to be poorly formed, LARD read the following quotation from Dr. Roberts' Address on Therapeutics, delivered before the British caries, and are lost at an early period. This is un-Medical Association in 1885, as reported in the doubtedly due to the fact that many of these chil-British Medical Journal of August 15th, 1885: dren are at service as house servants, and when fol-"Some persons have supposed that by infusing tea lowing this occupation are addicted to the tea tippling for a very brief period—two or three minutes—the and the fine bread above described. The result is, passage of tannin into the beverage could be avoided. that instead of the full and perfect denture of the This, however, is a delusion. Tannin is one of the parents who lived on plain and coarse food, withmost soluble substances known; it melts like sugar out any of the abominations of our modern kitchens, in hot water. You can no more have tea without these poor creatures obtain only a partial nutrition, tannin than you can have wine without alcohol, and the hard structures of the body being deprived of I found experimentally that tea infused for two min- the necessary calcareous supply which resides in the utes had almost exactly the same inbibitory effect on the husk of grain, and is removed in the process of

of dyspepsia is the fact that the diet is much de- early lost. ranged. Too much drink and too little food is taken, and the patient gradually becomes anæmic, and the train of symptoms so often noticed in tea-poisoning gradually are developed. In this way tea possesses one curious merit, as the patient can be sustained upon a more attenuated diet than when no tea is taken.

Dr. Farlow remarked that it is marvelous what a proportion of patients seen at the dispensary are totally ignorant of what is a proper condition of the bowels, and the little attention given to regularity of action in evacuation. These patients are almost all tea-topers, and are frequently insufficiently nourished. They generally complain of a feeling of weight in the abdomen, and are also almost invariably nervous.

Dr. Blodgett said that Dr. Cheever expected to have been present at this meeting, but was unavoidably detained. This was the more to be regretted from the fact that Dr. Cheever has had a large and interesting experience in the treatment of cases of disease arising from the inordinate use of tea. The condition of these patients is not always the same, but presents a limited variation in the array of prominent symptoms. One of the most frequently noticed conditions is a highly exalted state of the nervous system with increased reflex excitability, and a tremulous condition of the voluntary muscles, which justifies the name of "tea tremens," from the similarity of this symptom to the tremor belonging to cases of alcoholic poisoning. This is most frequently noticed in servant girls, who partake frequently and exclusively of tea as a drink and do not obtain sufficient exercise in the air, and live principally on fine white bread, to the exclusion of other more wholesome and necessary articles of natural diet. The result is that the system obtains only an insufficient nutrition, and the organs and functions of the body suffer a loss of

hard structures of the body. This result is most no-Dr. EASTMAN remarked that the late Dr. Jacob ticeable in our Irish servant population, and particularly in the children born of parents who themselves emigrated to this country from Ireland. The teeth ble in structure, and beautifully clear and white. The In response to certain remarks in regard to the more teeth of the children, and especially those of the to be of brittle structure, and fall an easy prey to digestion as tea infused for fifteen or twenty minutes." making fine flour, the teeth are insufficiently formed Dr. Edgs observed that one most frequent cause or inadequately maintained and consequently are

# Dr. P. C. KNAPP showed a series of NORMAL ELECTRODES,

in which the size of the disk which is applied to the the surface in connection with the degree of intensity of current is measured by the resistance, constitutes a perfectly adjustable measure of the amount and intensity of the current employed, and is a necessary feature in the practical employment of electricity as a therapeutic agent.

These electrodes are the sizes proposed by Erb<sup>1</sup> in 1882, and now accepted as the standard in regard to size, and with them a new size, recently proposed by Erb,2 which merits a word of description. In testing the galvanic excitability of nerve or muscle the appearance of contraction depends upon the absolute density of the current employed. This absolute density varies of course directly with the intensity of the current which may be readily measured in milliampères on an absolute galvanometer, and it also varies inversely with the area of the electrode, just as the intensity of a stream of water varies inversely with the size of the tip of the pipe. Hence we have the equation of D equals I divided by Q, where D equals absolute density, I equals intensity, and Q (querschmitt) equals area of electrode. Having a ready measure for I in the milliampère, Erb has suggested the use of a "normal electrode" as a testing electrode, with an area of ten cm., either as a flake 3.2 cm. square, or a round disc, like the one exhibited, with a diameter of 3.5—3.6 cm. We may then say that KaSZ appears at 4 milliampères, normal electrode, or more simply, KaSZ appears at 4-10, or .4 milliampères, the numerator of the fraction denoting the number of milliampères, the denominator the area of the electrode.

Erb Handbuch der Elektrotherapic, Leipzig, 1882.
 Neurolog, Centralblatt, January 1, 1886.

Stated Meeting, Thursday, April 1, 1886. THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR. W. H. H. GITHENS, SECRETARY.

Dr. E. P. Bernardy read a paper on THE VALUE OF BINIODIDE OF MERCURY AS AN ANTI-SEPTIC IN OBSTETRICS.

(See page 422.)

DR. CHAS. HERMON THOMAS had heard the statements of Dr. Bernardy with interest, and surprise that cases of so much gravity could be controlled by were frequently employed in the case. Six weeks orrheea. have elapsed since the death of that patient, and in that time the same practitioner has lost three addi- tle is marked with a diamond so as to indicate

tional parturient patients.

dy's practice. We have been led to expect a prompt (The cost of this solution is less than ten cents.) It fall of temperature from the use of intra-uterine in- is now a very easy matter to make a solution of any jections in septicæmia post-partum. His own plan desired strength extemporaneously. A tablespoonis to discontinue intra-uterine injections after the ful to the pint = one part to 1000 is the strength I first thorough washing, unless offensive discharges generally employ, but after autopsies I use 1 to 500. come from the uterus. He has observed that after the repeated introduction of forceps into the uterus, matous when using the solution? Once or twice the introduction of the hand or other means favoring daily, after washing the hands and while they are the introduction of air, a peculiar traumatic metritis still damp, about 3ss of glycerine is poured into the results, and to relieve this he has been in the habit palm and thoroughly rubbed into the whole surface of introducing into the uterus an iodoform pencil, of the hands, which are then dried as usual. This is containing about 12/3 drachms of iodoform; this pre- very effectual, vents future sepsis (see Lusk, last edition). Prompt lowering of the temperature and pulse are the result with biniodide of mercury, but has had with bichlorif this is used, after sepsis has occurred, and even ide. He is not sure that Dr. Bernardy is at fault in effect of one of these pencils will last through two or vagina, for where does sepsis usually take place? three days, when another may be needed.

impurity.

Francis L. Haynes:

may add a little to the facts I mentioned in our con-sorbent cotton medicated with corrosive sublimate. versation. The last case of puerperal septicæmia I In the last 140 cases no rise of temperature has ochave seen in my own practice occurred in Mrs. F., curred during the puerperal period. In these cases confined December 18, 1885. It was due to the fact the antiseptic applications were all directed to the that my hands were contaminated with septic matter, and that I trusted entirely to hard scrubbing and Bernardy is probably right. A solution of 1 to 2000 to inunction with oil of turpentine to purify them is too strong and will produce soreness after opera-(after Goodell). In this case the pulse was 138, and tions. He does not like to have the patient on her the temperature ran up to 105, but she recovered in side during and after the removal of the afterbirth, a few days under copious injections of hot water into as it favors the entrance of air into the vagina, as in the uterus (generally plain, but sometimes with a little carbolic acid added). These injections were Dr. Harrts inquired if Dr. Bernardy did

OBSTETRICAL SOCIETY OF PHILADELPHIA. given, and during the days on which this treatment was being used I attended several cases of labor, purifying myself with ten per cent. solutions of carbolic acid. These cases had no trouble, but I became ill, as I always do when I use much carbolic acid, and my hands became sore. I now began to use the potassio-mercuric-iodide solution to purify my hands, and since then have had no trouble whatever, although I have attended cases of labor within a few hours after (1) washing out the uterus of a patient of Dr. L's suffering from septicæmia (terminating fatally); (2) after amputating finger and metacarpal bone of a man suffering from gangrene of finger and suppurative cellulitis of the hand and wrist; (3) such simple means as vaginal injections. His prac- after digging out putrid placenta after miscarriage tice and belief has been that such cases require the (several instances); (4) after performing autopsy in introduction of washes into the uterus, the washing a case of suppurative peritonitis, and bathing my of the vagina being utterly futile. The doctor re- hands freely in the pus. The solution may be used lated an instance in which a four-para was allowed without apparent injury to purify blunt instruments, to die of septicæmia, no effort being made to wash and it is certainly a great comfort to soak your specout the uterus, although vaginal antiseptic injections ulum thoroughly in it after treating a case of gon-

How is the solution prepared? A four-ounce botdrachms, and filled with distilled water containing Dr. Longaker spoke in support of Dr. Bernar- 3j each of potassium iodide and mercuric iodide.

How do I prevent my hands from becoming ecze-

Dr. WILLIAM GOODELL has had no experience when antiseptic uterine injections have failed. The confining his antiseptic injections principally to the Not in the uterus, but through wounds of the vagina. DR. HOWARD A. KELLY drew attention to the fact In the Charlotte Hospital they have good results that the biniodide of mercury is almost if not entirely from the use of bichloride injections and iodoform. insoluble in water, and that an alcoholic solution When the Preston Retreat was new they had a good would hardly be admissable. He also called atten- record, but afterwards the per centage of fatal cases tion to the frequent presence of the bichloride as an became too large. This fault was remedied by the He read the following letter from Dr. use of bichloride of mercury as a vaginal injection, and the introduction of 3j of iodoform. The pads "In reference to the potassio-mercuric-iodide, 1 to catch the lochial discharges were replaced by ablower portion of the womb and the vagina. Dr.

Dr. Harris inquired if Dr. Bernardy did not use

Wm. T. Belfield,

D. R. Brower,

Edwin Powell,

J. H. Plecker,

D. W. Graham.

D. A. K. Steele,

N. S. Davis, Sr.,

H. M. Thomas,

O. T. Schenick

G. C. Paoli,

N. S. Davis, Jr.,

E. M. McAuliffe,

uterine injections after the removal of the dead fœtus. The effect of a decomposing fœtus with unbroken membranes within the uterus has a remarkably prostrating effect upon both mind and body of mother.

DR. GITHENS described a case of post-partum septicæmia in which an offensive leucorrhœa, which had existed before labor and which had been neglected, was the apparent cause. In this case vaginal injections of potassi-mercuric-iodide quickly relieved W. W. Allport, the undesirable symptoms.

DR. THOMAS thought vaginal injections would be W. W. Jaggard, quite sufficient as a prophylactic agent, but would it be considered sufficient if septic peritonitis were present? One thorough uterine wash first and then pencils to prepare for subsequent vaginal washes. In Bellevue Hospital uterine injections are always used when required; washes failed to reduce the temperature.

Dr. Bernardy uses the first injection himself and thoroughly washes out the uterus and continues the injections until the fluid comes away perfectly clear. The firm contraction of the uterus eliminates the liability of absorption there, and the principal abrasions and absorbing surfaces are undoubtedly vaginal. The results at least have been satisfactory.

The pellets exhibited are quite soluble, and are chemically pure; the biniodide has been tested for bichloride, and none is present. The potassium iodide present merely aids in the solubility without affecting the chemical composition of the mercuric iodide.

#### CHICAGO MEDICAL SOCIETY.

Thirty-fourth Annual Meeting, April 5, 1886. THE PRESIDENT, C. T. PARKES, M.D., IN THE CHAIR.

The Treasurer, HAROLD N. MOVER, M.D., reported a balance of \$226.17 in the treasury. Dr. EDMUND ANDREWS, Chairman of the Committee on Library, reported a balance of \$210.88, donations of 268 volumes, and purchases of about 1600 vol-

umes during the year. The following were elected

OFFICERS FOR THE ENSUING YEAR.

President—Dr. Edmund J. Doering. First Vice-President-Dr. Wm. T. Belfield. Second Vice-President-Dr. J. F. Todd. Secretary—Dr. Liston H. Montgomery. Treasurer-Dr. Harold N. Moyer. Necrologist-Dr. John Bartlett.

#### STANDING COMMITTEES.

Committee on Library-Dr. Edmund Andrews (whose term had expired).

Committee on Judiciary-Dr. Addison H. Foster, Dr. Wm. E. Quine, Dr. Truman W. Miller.

Committee on Membership-Dr. Gerhard C. Paoli, Dr. D. A. K. Steele, Dr. E. F. Ingals.

Committee on Publication-Dr. John A. Robison, Dr. E. W. Andrews, Dr. R. Tilley.

The Society then elected the following

DELEGATES TO THE AMERICAN MEDICAL ASSOCIATION.

I. N. Danforth, Franklin H. Martin, H. M. Starkey, A. R. Reynolds, F. E. Waxham, F. C. Schaefer. R. H. Babcock, Augustus V. Park, E. A. Baldwin, Charles W. Purdy, L. T. Potter, Robert Tilley, Liston H. Montgomery, James Burry, S. C. DeVeny, W. E. Casselberry, T. W. Miller, Charles T. Parkes, F. A. Stanley.

Those wishing to attend the next meeting of the Illinois State Medical Society may apply to the Secretary for delegates' certificates.

# FOREIGN CORRESPONDENCE

# LETTER FROM PARIS.

(FROM OUR OWN CORRESPONDENT.)

The Summer Session of the Faculté de Médecine-The Lecturers-Intra-parenchymatous Injections of Bichoride of Mercury in Tuberculosis—Congenital Fibrous Band of the Leg-The French Surgical Congress—Madame Ribard and Paul Bert.

The summer session of the Paris Faculty of Medicine began on March 15th. The following is a complete list of the lecturers and subjects for the session, in order that your readers may become acquainted with the names of the leading medical men of this. city: Professors Baillon, Medical Natural History: Béclard, Physiology; Guyon, Surgical Pathology; Brouardel, Medical Jurisprudence; Regnauld, Pharmacology; Bouchard, Pathology and General Therapeutics; Damaschino, Medical Pathology; Vulpian, Experimental and Comparative Pathology; Tarnier, Obstetrics; Proust, Hygiene; Hayem, Materia Medica and Therapeutics. In addition to his theoretical lectures, Professor Brouardel delivers practical instruction at the Morgue on Forensic Medicine and Toxicology.

Clinics.-Professors Germain Sée, Medicine, at l'Hôtel Dieu; Hardy, Medicine, at La Charité; Potain, Medicine, at the Necker Hospital; Jaccoud, Medicine, at La Pitié; Richet, Surgery, at Hôtel Dieu; Verneuil, Surgery, at La Pitie; Trélat, Surgery, at La Charité; Le Fort, Surgery, at Necker

Hospital.

Specialties.—Professors Ball, Mental Pathology and Diseases of the Encephalon, at the St. Anne Asylum; Grancher, Diseases of Children; Fournier, Syphilitic and Cutaneous Affections, at the St. Louis Hospital; Charcot, Diseases of the Nervous System, at the Salpétrière; Panas, Ophthalmology, at the Hôtel Dieu; Pajot, Clinical Obstetrics.

Agrégés, who thus prepare themselves for the higher case evidently belongs to the same class as those in function of Professor. The following are the names which amputation is produced in utero by constrict-

of those engaged for the session:

Drs. Joffroy, Medical Pathology; Humbert, Surgical Pathology; Hanriot, Medical Chemistry; Blanchard, Natural History; Gariel, Physics; Regnier,

given on the following subjects by

Drs. Hanriot, Chemistry; Gnébhard, Physics; Faguet, Natural History; Laborde, Physiology; Rémy, Histology; Farabeuf, Operative Surgery; Gombault, Morbid Anatomy.

Thus it may be seen that the French medical students have great advantages over those of other coun-

gratuitously, and are open to all nations.

generally applied either by the month or by external country. applications. But Dr. Gougenheim thinks that unless the parasites can be directly attacked these remedies can be of little or no avail. He has therefore DOMESTIC CORRESPONDENCE conceived the idea of treating pulmonary tuberculosis by intra-parenchymatous injections of the bichloride of mercury, and he lately read a paper on the · subject before the Société Médicale des Hôpitaux de Paris. The author performed the injections with a below the clavicle, through the first intercostal space, and on the right side through the first two intercostal viously heated to 37 (98.6° F.).

This treatment was adopted with thirty-three patients, most of whom were in an advanced stage of due to a large extent to the surgeon. phthisis. In twenty-one instances improvement was quick and undeniable, as ascertained by auscultation. the overy in any given case, he said, it must not be Ten patients died; of these, seven presented local forgotten that during the entire sexual life of the modifications of lesions, which were easily detected female constant changes are going on in these organs. at the necropsies. At the necropsies of patients who Hence it was often very difficult to say just where had been thus treated, Dr. Gougenheim never ob- the normal ends and the pathological begins. Nothserved any muscular, pleural, or pulmonary lesions, ing was at present more common than to remove which could be attributed to these injections. One ovaries because they were "cystic," on the ground patient had hæmoptysis, and the injections were dis- that because of this condition they were functionally

treatment.

Reclus removed two-thirds of the band, and snbse-quently the remaining third. The success resulting monly regarded as pathological by him were found in

Supplementary Lectures.—These are delivered by has been perfect. It has been suggested that this ing bands.

The French Surgical Congress will hold its second meeting at Paris from October 18 to October 21. The subjects contained in the programme are: Na-Physiology; Hanot, Morbid Anatomy; Pinard, Obture, Pathogenesis and Treatment of Tetanus; Nephrotomy and Nephrectomy; Orthopædic Resec-In addition to the above, practical instruction is tions; Surgical Operations in Irreducible Dislocations. Papers on other subjects cannot be read at the Congress unless the conclusions of the author are forwarded to the Secretary, Dr. S. Pozzi, 10 Place Vendome, Paris, between July 1 and July 13, 1886. Papers that are not read will not be printed in the transactions.

Madame Ribard, M.D., of Paris, having been aptries, particularly as the above lectures are given pointed physician to the family of M. Paul Bert, the newly-appointed Governor-General of Tonquin, has The natural outcome of the parasitic doctrine of left Paris for that Colony. Madame Ribard is also diseases is of course the tendency to cure them by entrusted with the organization of an Ophthalmic remedies reputed to be anti-parasitic, and these are Hospital, as well as a vaccine establishment, in that

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Is Disease of the Uterine Appendages as Frequent Pravaz's syringe, which he introduces on the left side as has been represented—The Academy of Medicine; Changes in the Constitution.

At the meeting of the Academy of Medicine held spaces. In order to avoid all accidents it is neces- April 1, Dr. Henry C. Coe, Pathologist to the sary to make the injection at a distance from the Woman's Hospital, read a very timely paper, entitled, sternum and the neighboring rib, in order not to in- Is Disease of the Uterine Appendages as Frequent as jure the intercostal and mammary vessels and nerves; it has been Represented t which it is hoped will have neither should it be made too near the clavicle, or some effect, at least, in putting a check upon the the subclavian vein may be injured; the subcutaneous altogether reckless resort to Tait's operation which veins should be avoided. The injection should be has of late been of such frequent occurrence in this given slowly, and the liquid employed is a solution country. Having remarked that there was much yet of the bichloride of mercury in the proportion of 1 to be learned in regard to the pathology of these in 2000, 1 in 1000, and 1 in 100, the fluid being pre- organs, he said very truly that agnosticism in regard to ovarian and tubal disease met with very little encouragement at the present day, and that this was

In considering the condition and appearance of continued; another left the hospital whilst under this useless. Yet he had seen cysts as large as a marble which could not be called pathological, since they Dr. Reclus, at a recent meeting of the Paris Sur- contained perfectly healthy ova which were certainly gical Society, presented a female patient who was the capable of being impregnated. Taking up the pasubject of a rare lesion. One of her legs was con-thological conditions of the ovary as viewed by the stricted by a congenital fibrous band. Last year Dr. laparotomist, Dr. Coe said that many of the variaoophorectomy; since, when the other pelvic organs of the fimbriated extremity. were for any reason in a state of hyperæmia, the ovaries were naturally found hyperæmic also.

not be pathological, but merely an indication of senile ably less common, and hæmo-salpinx extremely rare. atrophy. Again, certain conditions which are re- If there was no pus discernible, there was certainly garded by the laparotomist as pathological, such as no pyo-salpinx, just as there could be no abscess any thickening of the external covering of the organ, where without pus. The pain that was so often atmight not be so in reality; since such thickening was tributed to disease of the tubes Dr. Coe believed to not at all abnormal in senile atrophy, or after very be generally due to localized peritonitis, and somefrequent ovulation, when localized thickening is very times to neuralgia pure and simple. The one criticommon, even when senile atrophy does not exist. cism that he had to make on American laparotomists, ternal stroma of the organ which interfered with its ported very shortly after the operation, when the functions.

pathologist might give an intelligent opinion concern- found that no permanent benefit whatever had reing any removed ovary presented to him for examin-sulted from the procedure. He had met with many ation, he must be familiar with the normal histology women under these circumstances who still suffered of the organ, and, on account of the constant changes in the same way as before the operation. going on in the ovaries, previously referred to, this was a matter which involved no little difficulty. The as follows: pathological appearances of well-marked disease were readily recognizable; but the lesser ones were un- generally supposed. This impression is derived from doubtedly very hard to differentiate. Again, because one portion of the organ was affected, it was no reason why the whole ovary should be implicated in not follow that the whole organ is involved in the the pathological process; and, acting on this principle, Schröder had lately been operating in such a 3. "Cystic" and " way as to remove the diseased portions, and allow chievous terms, which have been productive of much the rest to remain. The number of cases thus far evil by leading to false conclusions and unnecessary recorded, however, was too small to base any positive conclusions upon as to the practical utility of this method; but it was, at all events, a step in the than many surgeons would have us believe. right direction.

could be no doubt that Tait's operation had of late been greatly abused. No reasonable objection could be urged against the removal of Fallopian tubes which result of his personal pathological investigations. tarrhal salpingitis," commencing pyo-salpinx, and other presumed pathological conditions which con-

ovaries which were to be looked upon as in fact en- any inflammation. As long as the lumen was free, tirely normal, at least as far as function was con- and the lining mucous membrane capable of performcerned. Congestion and moderate enlargement did ing its function, the tube was not abnormal, notwithnot necessarily imply chronic ovaritis and indicate standing the fact that there might be slight adhesions

From his examinations he could say that pyo salpinx exists in about one-fifth of the cases where Tait's In the same way, a decided diminution in size might operation is performed. Hydro-salpinx is consider-But, although there might be exterior thickening, it he said, was that they do not follow up their cases for was no indication that there was cirrhosis of the in- a sufficiently long time. As a rule, they were reresults often seem all that could be desired; but if Passing on to consider the subject from a micro-the histories could be given at the end of from six scopical point of view, he said that in order that the months to two years, it would not infrequently be

The deductions drawn by Dr. Coe were somewhat

1. Ovarian disease is not as common as is now the surgeon, and not from the pathologist.

2. Because the ovary is partially diseased, it does

3. "Cystic" and "cystic degeneration" are misovariotomies in consequence.

4. Actual disease of the tubes is far less frequent

5. Localized peritonitis will account for much of In speaking of tubal disease he said that there the trouble attributed to disease of the uterine ap-

pendages.

While some of the gynecologists who took part in the discussion of the paper were disposed to take were filled with pus; but this was not the case with a issue with its author in regard to the frequency of large number of the tubes which are taken out. Tait disease of the uterine appendages, it was noticeable said that in chronic disease of the ovaries the tubes that without an exception they all condemned the were always affected; but Dr. Coe denied this, as the frequent removal of these organs. Even Dr. W. Gill Wylie, whose name is more closely identified with Some of the so-called diseases of the tubes were not Tait's operation than almost any other New York recognizable by the pathologist at all. There was no laparotomist, was careful to put himself on record on doubt about pyo-salpinx or hydro-salpinx, when these the conservative side by stating that at the present conditions were present; but as to so-called "ca time he seldom or never resorted to this procedure

Dr. Lusk, whose views were more entirely in acstantly pass unchallenged in learned societies, there cord with those of the essayist of the evening than was very good reason for doubt. In cases where the any of the other speakers, remarked that in his paper diagnosis of catarrhal salpingitis had been made, and Dr. Coe had covered nearly all the ground which he the tubes and ovaries removed in consequence of the had himself been accustomed to take in the tirades condition, Dr. Coe had found on subsequent exam- against the abuse of Tait's operation with which many ination simply moderate hyperæmia, with a thin coat of his gynecological friends were now familiar. He ing of mucus, which might exist in a perfectly normal was by no means an enemy of the operation, he said; Fallopian tube; there being no evidence whatever of but thought it did great good in its place. More

than once, however, he had stood by and seen tubes lieved Dr. Coe's position to be well taken. He said removed which were described by various pathological that he saw very few cases of pyo-salpinx in his exdesignations, but which seemed to him to be entirely aminations, and that he was continually receiving normal. In the same way, he had seen ovaries taken ovaries and tubes, removed by laparotomy, which out, of which it was said that they were in a state of were, as far as he could make out, entirely free from commencing cystic degeneration, but which appeared disease. He furthermore expressed the opinion that to him typical examples of physiological ovaries, pre- it was a mistake to suppose that the so-called "cyscisely like those he had formerly been accustomed to tic" ovaries would degenerate into cystoma. exhibit to his classes as such when he used to teach that branch of physiology. He then took great interest, and perhaps to a very limited extent among the prohe said, in pointing out the changes which are con-fession even here, what radical changes have been stantly going on in these organs; and these so-called made during the past winter in the constitution and cystic ovaries, which had been removed for imaginary by-laws of the Academy of Medicine. These changes, disease, were simply ovaries which were undergoing however, constitute them, in many essential features, these same physiological changes. Since surgeons an entirely different instrument from the old constihad come to be able to remove the ovaries and tubes stitution and by-laws. In comparing the old and the with comparatively little risk to the patient, the oper- new constitution, the first change that strikes one is ation was performed entirely too frequently. Tait's in regard to the objects of the Academy. In the advice was to cut open the abdomen and examine old, these are stated to be: (1) The cultivation of the condition of the uterine appendages; when, if the science of medicine. (2) The advancement of they were found all right, they were to be returned to the character and honor of the profession. (3) The their places in the pelvic cavity. But he himself had elevation of the standard of medical education. yet to meet with the surgeon who. after getting thus The promotion of the public health. In the new, far in the operation, did not take out the organs altogether, whatever their condition might be.

in which the condition of pyo-salpinx could not be details of the work of the Academy and the simplicity diagnosticated by proper manipulation with the fingers and accuracy of the wording of the various sections, of one hand in the vagina, and that the great mistake the most striking and extraordinary one is in regard of the present day among gynecologists was the too to the matter of ethics. In the new constitution and frequent opening of the abdomen. Unless the en- by-laws there is absolutely no reference in any manlarged tube could be felt, in the manner described, ner whatever to this subject. In the old by-laws, outside the body, the operation ought not to be per- Section 5 of No. XIV reads as follows: "All quesformed, and he said that if this rule were generally tions of ethics in other respects shall, as far as appliobserved, there would not be so many tubes removed. cable, be adjudged in accordance with the Code of In the course of time he thought it probable that Ethics promulgated by the American Medical Assoeven in this class of cases Tait's operation might be ciation and adopted by the Academy." In the new avoided by the use of some such instrument as that instrument not only is the New Code not substituted

with a hypodermic needle attached.

In regard to this last point of Dr. Lusk Dr. Wylie said that he did not think that aspiration would cure cipline now found is in the eighth article of the conany case of pyo-salpinx, because the pus would be sure to return after it had been evacuated. Another objection to it was that there was a possibility of causing fatal injury with the instrument, by wounding the uterus. In the course of his remarks Dr. Wylie expressed his conviction that in the great majority of The only other reference to discipline in the consticases localized peritonitis was associated with disease tution is in Article VII, where it is stated that the of the ovaries and tubes; an opinion which was also coincided with by Drs. Polk, Mundé and Noegerrath.

anatomical studies had led him to look with some really amounts to nothing. The only reference of doubt upon a diagnosis resting on clinical observation the kind in the by-laws is in the eleventh section of alone. Fearing that the position which these in- No. X, which reads as follows: "It (the Council) vestigations had obliged him to take in regard to the shall, on a written statement signed by a complaincomparative infrequency of disease of the uterine ant, and duly forwarded through the Recording Secappendages might perhaps be thought not altogether retary, take cognizance of any complaint against a well supported, he had written to obtain the opinion Fellow. The Council may, after investigation, disof Dr. Wm. H. Welch, now of the Johns Hopkins miss a complaint or transmit its finding thereon to University, of Baltimore, who was acknowledged to the Academy for further action." From this it will be one of the most distinguished microscopists in the be seen that the matter of disciplining is therefore country, and who had had a very large experience in wholly comprised in Article VIII of the constitution, this special field. Dr. Welch had replied that he be- which, as just mentioned, prescribes that he may be

It is probably not known at all out of New York, of the science and art of medicine." While many of Dr. Lusk believed that there were very few cases the changes are decided improvements, as regards the devised by Dr. Mundé, which consists of a syringe for the National one, but it out-Herods Herod by cutting completely loose from all codes.

Practically the only reference to the matter of disstitution, in which it is provided that the Academy may, by a three-fourths vote of the resident Fellows (the printed call for the meeting having contained a notice of the motion to suspend or expel), suspend or expel a Fellow "for violation of its regulations." certificate of fellowship may be revoked for cause; but as there is no provision whatever for the manner In closing the discussion Dr. Coe stated that his in which this revocation is to be accomplished, it

suspended or expelled for violation of the Academy's regulations. As there is nothing whatever in these "regulations" of the faintest ethical import, it is evident that a Fellow can be suspended or expelled solely for a breach of certain routine rules. He may be a debauchee, or sot, a blackleg or a thief; but so tions," the Academy cannot touch him; and if it at-recently passed: tempted to do so, the defense that he had not violated Be it enacted by the General Assembly of the State the regulations would hold good in any court of law. There is not even the saving clause of "conduct unbecoming a gentleman" anywhere to be found.

Furthermore, it is not necessary, so far as any statutory provisions are concerned, that in order to belong to the Academy a person should be a regular graduate in medicine. So far as regards any restrickind of a charlatan whatever, is entitled to become a Fellow if only he is the possessor of a diploma or license, and has resided in New York or its vicinity for three years. There is absolutely nothing said about what sort of a college or other body the candidate must have derived his diploma or license from; it is simply required that he "must have been a graduate or licentiate in medicine." It is noticeable that the committee on education, as well as that on ethics, has been entirely abolished.

Hitherto the Academy of Medicine, although many of its Fellows individually repudiated the National Code, has been entitled, as a body, to representation in the American Medical Association by reason of its technical adherence to the Code; but, of course, now that it has repudiated the latter in its corporate capacity, it has placed itself in the same anomalous York. P. B. P.

#### LAPAROTOMY FOR PELVIC ABSCESS.

To the Editor of the Journal:

Dear Sir:-I entirely agree with Dr. Christian Fenger in his remarks on Dr. Jackson's paper, in a recent meeting of the Chicago Gynecological Society, when he says: "The operation performed in Dr. Jackson's ease I should not call a laparotomy at all, but simply an oncotomy. An abscess was opened, and the operation does not differ materially from the opening of a deep-seated abscess in any other region of the body, e.g., in an extremity."

In the cases reported done in this country there was one performed by me in June, 1884. I think it was the first successful case of laparotomy for pelvic Medical News, for 1884. In this case the sac of the abscess was stitched to the abdominal wound, and then opened and drained. The woman is still living and in excellent health. I think this case was reported by Dr. Stone, my assistant, and is probably referred to in Dr. Fenger's list, given in his remarks.

Very respectfully, R. S. SUTTON, M.D.

419 Penn Ave., Pittsburgh.

### STATE MEDICINE.

# REGULATION OF MEDICAL PRACTICE IN

The following Bill for an act to regulate the practice long as he acts in accordance with these "regula- of medicine and surgery in the State of Iowa has been

of Iowa:

Section 1. That every person practicing medicine, surgery or obstetrics, in any of their departments, within this State, shall possess the qualifications required by this act. If a graduate in medicine such person shall present his or her diploma to the State Board of Examiners, for verification as to its genuinetion in the constitution or by-laws, a homoeopath, ness. If the diploma is found genuine and is issued eclectic, "physio-medical," "herb doctor," or any by a medical school legally organized and in good by a medical school legally organized and in good standing, of which the State Board of examiners shall determine, and if the person presenting and claiming such diploma be the person to whom the same was originally granted, then the State Board of Examiners shall issue its certificate to that effect signed by not less than five physicians thereof, representing one or more physicians of the schools on the board, and such certificate shall be conclusive as to the right of the lawful holder to practise medicine, surgery and obstetrics within this State. If not a graduate the person practising medicine or surgery within this State, unless he or she shall have been in continuous practice in this State for a period of not less than five years, of which he or she shall present to the State Board of Examiners satisfactory evidence in the form of affidavits, shall appear before said State Board of Examiners and submit to such examination as said position as the Medical Society of the State of New board may require. All examinations shall be conducted in writing, and all examination papers, together with the reports and action of the examiners thereon, shall be preserved as the records of the board for a period of five years, during which time they shall remain open for inspection at the office of the said State Board of Examiners. Such examinations shall be in anatomy, physiology, general chemistry, pathology, therapeutics, principles and practice of medicine, surgery and obstetrics. Provided, that each applicant upon receiving from the secretary of the board an order for an examination shall receive also a confidential number which he or she shall place upon his or her examination papers so that when said papers are passed upon by the examiners, the latter shall not know by what applicant said papers have been prepared. That upon each day of examination all candidates be given the same set or sets of questions. It is further provided that the examination papers shall be marked upon the scale of one hundred abscess done in this country. It will be found in the (100) and that in order to secure a license, it shall be necessary for the applicant to attain such average as shall hereafter be determined by the State Board of Examiners. And if such examination be satisfactory to at least five physicians of said board, representing the different schools of medicine on the board, the board shall issue a certificate which shall entitle the lawful holder thereof to all the rights and privileges herein provided, and the physicians and the secretary

of the State Board of health shall constitute and be provided for that purpose, a complete list of the cerdeemed a Board of Examiners for the purpose of tificates presented for record, and the date of their this act.

cure a seal within sixty days after the passage of this the medical college conferring the same, and the date act, and through the secretary of said board shall re- when conferred shall be recorded; and when such ceive applications for certificates and examinations. certificate shall have been granted upon the exami-The president, or any member of the board, shall nation of the board, or because of seven years' prachave the authority to administer oaths and take testi- tice in the State, such facts shall be recorded. Said mony in all matters relating to their duties as examiners aforesaid. The board shall provide three forms of certificates: One for persons in possession of certificates: One for persons in possession of certificates. genuine diplomas, one for candidates examined by advance to the Secretary of the State Board of Exthe board, and one for persons who have practised aminers, a fee of ten dollars, which fee, together with medicine or surgery in any of its departments for five the fees received for certificates, shall defray the enyears as provided in this act. Said certificates shall tire expense of the aforesaid Board of Examiners, board, and this number may act as examining board Treasurer for the benefit of the school fund, except in the absence of the full board, provided that one or such an amount as will pay each member of the more members of the different schools of medicine Board ten dollars (\$10) per day during the time he represented in the State Board of Health shall also is in actual attendance upon the session of the said be represented in the Board of Examiners. The Board for the purpose of performing the duties reas will best accommodate applicants residing in differ- Secretary of Board such a salary as they may allow, ent portions of the State, and at such times as they not to exceed five dollars per day during the time he shall deem best and due notice of the time and place is actually engaged in performing the work of the of such meetings shall be published.

mitted to them for such purpose to determine their to defray his actual and necessary expenses while in genuineness and the rightful ownership of the person the discharge of the duties herein provided. Any presenting the same. The affidavit of the applicant one failing to pass the required examination, shall be and holder of any diploma that he or she is the per-son therein named, and is the lawful possessor there-months without fee. Provided that any applicant of, shall be necessary to verify the same with such for examination by notice in writing to the Secretary other testimony as the board may require. Diplomas shall be entitled to an examination within three and accompanying affidavits may be presented in months from the time of said notice, and a failure to person or by proxy. If the diploma shall be found give such opportunity, shall entitle such applicant to genuine, and in possession of the person to whom it was issued, the State Board of Examiners shall, upon until the next regular meeting of said Board. the payment of a fee of two dollars, to the secretary of the board, issue a certificate to the holder of such to grant a certificate to any person who has been diploma, and no further fee or sum shall be demanded convicted of a felony committed in the practice of such certificate. If the diploma shall be found to be fraudulent, or not lawfully in the possession of the holder or owner thereof, the person presenting such diploma or holding or claiming possession thereof, conviction thereof, before any court of competent jurisdiction, be fined not less than twenty dollars nor more than one hundred dollars.

county wherein he resides, and should he remove by a like vote. from one county to another to practise medicine, a fee of fifty cents for his services, to be paid by the applicant.

issue by the State Board of Examiners. If the cer-Sec. 2. The State Board of Examiners shall pro-tificate is issued by reason of a diploma, the name of

be signed by not less than five physicians of the and the balance shall be turned over to the State Board of Examiners shall hold meetings at such places quired of him under this act, and as will pay the Board under this act, and each member of the Board SEC. 3. The board shall examine all diplomas sub- of Examiners shall also receive a sufficient amount practice without the certificate required by this act,

Sec. 7. The State Board of Examiners may refuse or collected from said applicant by said board for his profession, or in connection therewith, may revoke certificates for like cause, or for palpable evidence of imcompetency, and such refusal or revocation shall prohibit such person from practicing medicine, surgery and obstetrics, provided, such refusal shall be deemed guilty of a misdemeanor, and on or revocation of a certificate can only be made with the affirmative vote of at least five physicians of the State Board of Examiners, in which number shall be included one or more members of the different Sec. 4. Every person holding a certificate issued schools of medicine represented in said Board; and by the State Board of Examiners, shall, within sixty provided, further, that the standing of a legally chardays after the date of such certificate, have the same tered medical college from which such a diploma recorded in the office of the county recorder in the may be presented, shall not be questioned except

Sec. 8. Any person shall be deemed as practising surgery or obstetrics, his certificate must be recorded medicine, surgery or obstetrics, or to be a physician in the county to which he removes. The county re- within the meaning of this act, who shall publicly corder shall indorse upon the certificate the date of profess to be a physician, surgeon or obstetrician and record, and he shall be entitled to charge and receive assume the duties, or who shall make a practice of prescribing or of prescribing and furnishing medicine for the sick, or who shall publicly profess to cure or Sec. 5. The county recorder shall record in a book heal, by any means whatsoever, but nothing in this act shall be construed to prohibit students of medi- the Army and Navy, and the Marine Hospital Service cine, surgery or obstetrics from prescribing under of the United States. the supervision of preceptors, or gratuitous service Each State, County, and District Medical Society in case of emergency, nor shall this act extend to entitled to representation shall have the privilege of prohibit women who are now engaged in the prac-sending to the Association one delegate for every ten tice of midwifery, nor to prevent the advertising, of its regular resident members, and one for every selling or prescribing natural mineral waters flowing additional fraction of more than half that number: from wells or springs, nor shall this act apply to sur- Provided, however, that the number of delegates for geons of the United States army and navy, and ma- any particular State, territory, county, city or town rine hospital service, nor to physicians as herein de-shall not exceed the ratio of one in ten of the resident fined who have been in continuous practice in this physicians who may have signed the Code of Ethics State for seven years, three years of which time shall of the Association. have been in one locality; provided, such physician shall furnish the State Board of Examiners satisfac- nated, are earnestly requested to forward, at once, tory evidence of such continuous practice, and shall lists of their delegates. procure the proper certificate as provided in this act, and for which certificate such physician shall pay to to erase from the roll the names of those who have the Secretary of the State Board of Examiners a fee forfeited their membership, the Secretaries are, by of two dollars, and the Board of Examiners shall special resolution, requested to send to him, annually, grant a certificate to such applicant; nor shall this a corrected list of the membership of their respective apply to registered pharmacists when filling prescrip- Societies. tions, nor shall it be construed to interfere with the sale of patent or proprietary medicines in the regular course of trade.

SEC. 9. Any person who shall practise medicine or surgery within this State, without having complied with the provisions of this act, and who is not embraced in any of the exceptions, or after being prothis act. shall be deemed guilty of a misdemeanor, and shall, on conviction thereof, be punished by a dollars, or by imprisonment in the county jail not less than ten days nor more than thirty days.

file, with the State Board of Examiners, as his or her own, the diploma of another person, or who shall file or attempt to file with the county recorder the certificate of another person as his or her own, or who shall file or attempt to file a diploma or certificate with the true name erased therefrom and the claimant's name inserted, or who shall file or attempt to deemed guilty of the crime of forgery.

SEC. 11. The penalties, as provided in this act, for violations thereof, shall not be enforced prior to the first day of January, A. D. 1887.

SEC. 12. All acts or parts of acts in conflict with this act, are hereby repealed.

# ASSOCIATION ITEMS.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tuesday at 11 A.M.

The delegates shall receive their appointment from permanently organized State Medical Societies and such County and District Medical Societies as are recognized by representation in their respective State Societies, and from the Medical Department of

Secretaries of Medical Societies, as above desig-

Also, that the Permanent Secretary may be enabled

#### SECTIONS.

"The Chairman of the several Sections shall prepare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their respective Sections. .."—By-Laws, Art. 11, Sec. 4.

Practice of Medicine, Materia, Medica and Physi-

hibited from so doing, as provided in section 7 of ology. - Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .fine of not less than fifty nor more than one hundred Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary,

Surgery and Anatomy.-Dr. Nicholas Senn, Mil-SEC. 10. Any person who shall file, or attempt to waukee, Wis., Chairman; Dr. H. H. Mudd, St. Louis, Mo., Secretary.

> State Medicine. - Dr. John H. Rauch, Springfield, Ill., Chairman; Dr. F. E. Daniel, Austin, Texas, Sec'y. Ophthalmology, Otology, Laryngology.—Dr. Eugene Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton,

St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nashfile any forged affidavit of identification, shall be ville, Tenn., Chairman; Dr. W. B. Lawrence, Batesville, Ark., Secretary.

Oral and Dental Surgery.-Dr. John S. Marshall, Chicago. Ill., Chairman; Dr. A. E. Baldwin, Chicago.

Ill., Secretary.

A member desiring to read a paper before a Section should forward the paper. or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting.—By-Laws.

Committee of Arrangements .- Dr. Le Grand Atwood, St. Louis, Missouri, Chairman.

# AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.-Each Section shall nominate its Chairman and Secretary-all other nomi nations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J.—Create a new Section, to be known as the Section on Medical Juris-WM. B. ATKINSON, M.D.,

Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

sued to delegates attending the next meeting of the family of the deceased their most profound sympathy. American Medical Association, on the 4th of May next, at St. Louis, Mo., by the following agents of the Chesapeake & Ohio Railroad: H. W. Fuller, Gen'l Pass. Agent, Richmond, Va.; Frank Trigg, Pass. Agent, 513 Pennsylvania Ave., Washington, D. C.: S. R. Seal, Ticket Agent, 339 Broadway, N. OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U.S. ARMY, FROM MARCH 27, 1886, TO DEPARTMENT, U.S. ARMY, TO DEPARTMENT, U.S. ARMY, TO DEPARTMENT, U.S. ARMY, U.S. ARMY, TO DEPARTMENT, U.S. ARMY, U.S. AR Old Dominion line of steamers to Old Point Comfort, or Richmond, Va., is perfectly delightful at this Major Henry McElderry, Surgeon, relieved from further duty in connection with the New Orleans Exposition, and ordered, season of the year, and from those points and Washington City over the C. & O., through the mountains of Virginia via the celebrated White Sulphur Springs, West Virginia and Louisville to St. Louis, Mo., the scenery is grand and beautiful beyond description. Delegates from all points on the Missouri Railroad, including Kansas City and St. Joseph, Mo., Leavenincluding Kansas City and St. Joseph, Mo., Leavenworth and Atchison, Kan., and Omaha, Neb., will have until May 30 before returning.

\*\*Asst. Surgeon J. M. Banister, granted leave of absence for one month, to commence on or about April 2, 1886. (S. O. 63.) have until May 30 before returning.

Other weekly medical journals will please copy. R. M. Jordan, M.D., Chairman Transportation Committee.

St Louis, Mo.

RAILWAY FACILITIES TO THE ASSOCIATION MEET-ING .- The regular through trains of the Illinois Central Railroad from Chicago to St. Louis will afford excellent accommodations for delegates who wish to attend the meeting of the American Medical Association at St. Louis the first week in May. The night express, with Pullman sleeping cars, leaves Chicago at 8:30 P.M., and arrives in St. Louis at 7 A.M. The rates are \$7.50 round-trip.

The rates on the Baltimore and Ohio Railway for those coming from the East and South-east are full

fare coming and one-third fare returning.

The Illinois Central, Chicago and Alton, and the Wabash Railways have agreed to fix the rates from Chicago to the meeting of the Association, for members, at \$7.50 round-trip.

The rate by the Pennsylvania Railroad, from Philadelphia to St. Louis and return, will be \$30.35. the Baltimore and Ohio, in consequence of their low Western rates, it will be \$23.75, with the privilege of stop-over at Washington or Baltimore if desired.

# MISCELLANEOUS.

NOTICE OF REMOVAL .- Dr. T. Gaillard Thomas has removed from 294 5th avenue, New York, to 600 Madison avenue, between 57th and 58th streets.

THE LOCAL COMMITTEE OF ARRANGEMENTS AND THE DEATH OF DR. FLINT .- Whereas, The members of the Local Committee of Arrangements have heard with sorrow of the sudden death of Professor Austin Flint, M.D., I.L.D., whose eminent services to medical science, and whose life-work in practical medicine, had endeared him to the medical profession, and whose private and personal character was such as to insure him the admiration and respect of the profession in this country and abroad; therefore, be it Resolved, That this Committee thus publicly ex-

ROUND TRIP TICKETS at reduced rates will be is- press their deep regret at his death, and tender to the

J. B, Hamilton, M.D., A. Y. P. GARNETT, M.D., Committee. D. R. HAGNER, M.D.,

Washington, April 5, 1886.

APRIL 9, 1886.

on the expiration of his present leave of absence, for duty in

Dept. East. (S. O. 71, A. G. O., March 26, 1886.)

Asst. Surgeon Leonard Y. Loring, granted leave of absence for one month, provided that during his absence he furnishes the necessary medical attendance at San Diego Bks., Cal. (S. O.

19, Dept. Cal., March 24, 1886.) Asst. Surgeon Jno. Van S. Hoff, granted one month's leave of

Dept. East, March 26, 1886. Asst. Surgeon Aaron H. Appel, granted leave of absence for one month. (S. O. 66, Dept. East, March 30, 1886.)

Major Albert Hartsuff, Sargeon, granted leave of absence for fifteen days. (S. O. 71, Dept. East, April 7, 1886.)
Major Henry McElderry, Surgeon U. S. Army, ordered for duty as Post Sargeon, Ft. Wayne, Mich. (S. O. 69, Dept.

East, April 2, 1886.)
Capt. James C. Merrill, Asst. Surgeon, granted leave of absence for three months. (S. O. 81, A. G. O., April 7, 1886.)
Capt. Victor Biart, Asst. Surgeon, sick leave of absence still further extended one year on account of sickness. (S. O. 79,

A. G. O., April 5, 1886.)

Asst. Surgeon Richard W. Johnson, relieved from duty at Ft. Buford, D. T., and ordered for temporary duty at Ft. Snelling, Minn. (S. O. 28, Dept, Dak., March 29, 1886.)

Asst. Surgeon R. L. Robertson, on expiration of his present

leave of absence, will be relieved from duty in Dept. and will report in person to commanding general Dept. Dak. for assignment to duty. (S. O. 78, Dept. Dak., April 3, 1886.) Capt. Jno. V. Lauderdale, Asst. Surgeon, from Dept Dakota

to Dept. Texas Capt. Geo. W. Adair, Asst. Surgeon, from Dept. Dakota to Dept. East.

Capt. Jas. A. Finley, Asst. Surgeon, from Dept. Texas to Dept. Dakota.

Capt. H. S. Kilbourne, Asst. Surgeon, from Dept. Dakota to

Capt. E. S. Kilouine, Asst. Surgeon, from Dept. Dakota to Dept. Columbia.
Capt. E. F. Gardner, Asst. Surgeon, from Dept. Columbia to Dept. East.
Capt. Wm. W. Gray, Asst. Surgeon, from Dept. East to Dept.

Capt. J. M. Banister, Asst. Surgeon, from Dept. East (upon the expiration of his present leave of absence) to Dept.

First Lient. E. C. Carter, Asst. Surgeon, from Dept. Arizona to Columbus Bks., Ohio. First Lieut. R. W. Johnson, Asst. Surgeon, from Dept. Dakota

to Dept. East.

First Lieut. Geo. F. Wilson, Asst. Surgeon, from Dept. Columbia to Dept. Dakota. (S. O. 79, A. G. O., April 5, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U.S. NAVY, DURING THE TWO WEEKS ENDING AFRIL 10, 1886.

Atlcc, L. W., Asst. Surgeon, ordered to duty on U. S. R. S. "Vermont."

Drake, N. H., P. A. Surgeon, detached from duty at Naval Hospital, Philadelphia, and ordered to duty at Naval Hospital, Brooklyn, N. Y

Fitts, H. B., P. A. Surgeon, detached from duty at Naval Hospital, Brooklyn, N. Y., and ordered to duty at Naval Hospital, Philadelphia

Anderson, Frank, P. A. Surgeon, detached from Naval Laboratory, New York, and granted six months' leave from May 1, 1886, with the privilege of going abroad.

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

PUBLISHED WEEKLY.

Vol. VI.

CHICAGO, APRIL 24, 1886.

No. 17.

# ORIGINAL ARTICLES.

THE TREATMENT OF COMPOUND FRACTURES By lowing case: WIRING AND DRAINAGE.1

BY W. P. VERITY, M.D.,

OF CHICAGO, ILL.

SURGEON TO THE COOK COUNTY HOSPITAL.

Bilroth, in an edition of his "Surgical Pathology," written before antisepticism had begun to struggle for an existence, says: "The treatment of complicated fractures is one of the most difficult problems in surgery. We never cease learning on this point." In this view of the case may be found my apology for the introduction of a seemingly exhausted topic for discussion.

In the procedure I am about to describe, there is no single detail which is strictly original, but the procedure as a whole deserves the attention of the profession. When a comminuted fracture comes under my observation, the affected part and its surroundings are carefully cleansed and shaven. Soft parts so ragged and contused, and so situated as to produce separation of the fragments and to act as foreign bodies, are removed; as likewise all foreign bodies; the external wound being enlarged, if necessary, for this purpose. If the part affected be a lower extremity, this is flexed at an obtuse angle. The fragments are then approximated in the most normal position possible. For this purpose projecting sharp points, if denuded and acting as irritants, may be downwards with scissors until it was about five inches removed, as in Case 4, but an effort should be made in length, and seven pieces of bone were removed. to retain all such fragments as means of support, as Two sharp points of bone were left at the junction in Case 2. When the best possible approximation of the lower and middle third of the tibia, which is secured, the fragments are wired or nailed together; could not be retained in normal approximation. silver wire (when of good quality) is preferable, but iron wire is the most attainable and can be readily disinfected by means of heat and rendered properly flexible. Drainage is secured by means of large the manner already described. The further progress tubes from the most dependent point. The whole of the case is well illustrated in the accompanying extremity is then covered with an extensive thick chart. antiseptic dressing, and incased in a plaster cast, removable at each dressing. The present procedure has certain very demonstrable advantages in cases which otherwise could not be treated antiseptically in a thorough manner.

In illustration of these advantages the following cases may be cited. First. All points of bone and

injured tissue fragments, likely to act as irritants, are removed, except where bone point is needed for mechanical support. This is well illustrated by the fol

Case 1 .- C. W. S., white, aged 39; a painter; had a recurrent attack of erysipelas, but no venereal disease; he fell from a scaffold, sustaining a compound comminuted fracture of the tibia and fibula.

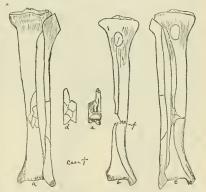


FIGURE 1.—A, posterior view. B, anterior view. D and E, fragments. F, wire. C, lateral view

In this case the wound was enlarged upwards and



It may be said that from time to time small frag-

<sup>1</sup> Read in the Section of Surgery and Anatomy at the Thirty-Sixth Annual Meeting of the American Medical Association,

ments of tissue came away. The fragments of bone denuded of periosteum; the upper fragment about an despite of this denudation, but little of either frag- eggnog and alcoholic stimulants. ment exfoliated, as the denuded bone soon became permeated with blood-vessels and retained its vitality. There was no resection of the fibula; the upper fracture of the latter perfectly united; the lower fracture did not, and two months after admission the lower fragment was drilled and has since united. At present writing the patient seems likely to have a shortening. The limb in such a case would usually have been amputated, since the extent of the injury would have been considered too great to permit of repair for a useful limb.1

Second. Proper retention of the fragments in place is presumably secured, thus avoiding any possible danger of the fragments overriding and injuring the

soft tissues.

Case 2.-M. S., single, sailor, 35 years old, of intemperate habits, was admitted to the Cook County Hospital on December 10, 1884. He has never had venereal troubles, but has been frequently attacked by intermittent fever, and on one occasion suffered from erysipelas. The patient, while drunk, fell from a street car, sustaining a compound fracture of the skull over left eye, and a compound fracture of left humerus near neck, together with a lacerated wound of the left thigh and a contusion of left elbow.

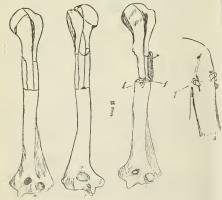
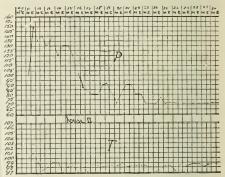


FIGURE 2.—A, anterior view. B, posterior view. C, anterior view. D, anterior view of soft parts. E, remaining fragment. F, dead bone removed March, 1885, and wire. G, drainage-tube,  $\frac{3}{2}$  in. diam. H, wire.

The wounds were dressed and the fractures treated approximated in the manner already described were in the way already described. December 11, his morning temperature was 100° F., and his pulse 100; inch and a quarter and the lower about an inch; evening, 101° F., and the pulse 150. He was given

December 12, his morning pulse and temperature were 145 and 99° F. Evening, 140 and 97.5° F., and there were given three grains of quinine and ten minums of tincture of per-chloride of iron thrice daily, as well as one-twentieth of strychniæ hypodermically. On December 15 the leg was dressed; it looked well; no pus. On the 16th the arm was useful limb, without more than about half an inch of dressed and there was much discharge of an offensive character, because of sloughing of the soft parts.

December 21 the arm and leg were dressed and



were looking well. At the present writing patient is able to move the arm, but owing to a wound (rendered necessary to remove a fragment of bone and wire) which has not healed, he still keeps his arm in a sling. Supination, pronation, flexion and extension are being regained by him. He can raise the arm to an angle of sixty degrees. There are no trophic or motor disturbances of the hand, which will show that no nerves have been permanently injured.

The advantages of the procedure are well illustrated in this case. One muscle, presumably the short head of the biceps, lay severed on the thorax. The fracture began transversely at the upper portion of middle fifth; then extended longitudinally through the capsule. About two inches of the upper fragment was fractured into four nearly equal parts; the most posterior fragment extended further upward in a V shape than the rest; the most internal and posterior fragments were nearly denuded of periosteum, and were removed; the most anterior fragment was attached to the head of humerus, was partly denuded and was left for mechanical support; the remaining fragment was not denuded and was retained. The sharp corners of the anterior fragment were sawed off and it was inserted to the distance of half an inch in the medullary canal and wired; the other fragment

The limb has regained its usual contour. There is but two and a half inches shortening; the ankle is somewhat iomobile, but this immobility is becoming less, and the patient is able to walk short distances without

Two months after admission two small shell-like pieces of bone, which came one from each end, and the wire were removed. Two months later the patient left the hospital means and became intoxicated, refracting the bone, the old is an inch was resected from each fragment and month were joined by one wire. Only one small drainage-tube was used, and but three dressings were needed. Dr ring the next eight months the went out at intervals on pass, always returning intoxicated. About thirden months after admission evidences of union were noticeable for the first time. December 25, 1885, an alarm of fire led to a very rapid flight on the part of the patient without the said of crutiless. The leg sheld considerably. Since that time union has gone on with great rapidity.

was left free in close apposition. It will be obvious resulted in considerable discomfort, independently of that in this case the fracture was one in which many its influence in preventing blood poisoning. (See surgeons would regard an amputation as an absolute bone chart.) Latter part of November patient walknecessity. (See chart and figure 2.)

Third. There is no extension needed, which avoids

the necessity of complicated apparatus and procedures such as too often interfere with proper antiseptic

dressings.

Case 3 .- J. C., aged 27; married; Irish; was injured August 30, 1884. by a hand car from which he was thrown. He struck on one foot, the car running over leg. The tibia and fibula were fractured, and there was also an extensive contusion of integument and muscles. The same day he was admitted to hospital (twenty miles distant from the place where he was injured). The ends of the bones

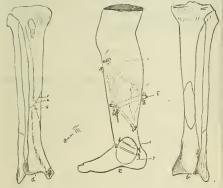


FIGURE 3.—A, anterior view. B, posterior view. C, lateral view soft parts. 1, 2, 3, wires. 4, 5, blood cavities beneath the subcutaneous tissue, 6, flap of soft parts. 7, position of soft parts on admission. 8, drainage-tube, C, lateral view soft

protruded and were covered by coal dust. The fracture involved the lower part of the middle third of the tibia, which was fractured in three portions; the smaller being triangular. A piece of bone an inch by half an inch was removed from the posterior part of tibia. As the contusion was extensive, seven drainage-tubes were inserted. The fragments were wired together. The triangular piece was wired to the upper by two wires which produced a notch or V-shaped depression into which the lower fragments fitted, to which it was then wired. The lower end of the upper fragment was denuded of periosteum. The temperature and pulse changes are best illustrated by the accompanying chart. The patient recovered perfeetly without deformity, the shortening being less than one-eighth inch. The drainage prevented any extensive swelling of the tissues which must otherwise have

ed about the ward and did light work.



The bones unite quicker, for reasons which will be obvious when the principles which underlie all procedures to secure union of ununited fractures are recollected.

Case 4.—I. S., cigar-maker; aged 51; moderate drinker; compound fracture of left leg. The tibia was fractured obliquely upwards and backwards, about junction of lower and middle third. The upper fragment protruded through the skin two inches and was denuded of periosteum to the extent of an inch and a half. The lower fragment extended upwards and backwards from two to four inches. fibula was broken two inches above its lower extremity. The projecting point of bone was sawn off, as

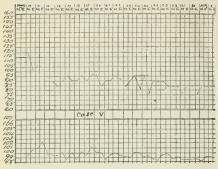


FIGURE 4 -A, anterior view. B, lateral view. 1 a, 1 b, sharp point removed. 2, wires.

it was denuded, very sharp, and likely to injure the soft parts, and was not needed for support. The fragments were wired together (several blood clots had to be removed, as the soft parts were much contused), before twisting the wires. A drainage-tube was passed through the gastrocnemius. The limb was then dressed in the usual way. The patient recovered with one-fourth inch shortening.1 (See fever and bone charts.)

June 20, 1885, the patient was etherized and the depth of the pus pocket in the medullary canal determined to be seven inches. The bone was trephined and a drainage-tube inserted at the lower termination of the pus pocket. The wound healed rapidly. The patient spent the sumer and winter between Chicago and Milwaukee, and used the arm for many purposes. March, 1886, he returned to the hospita, and at his request two inches of bone were resected in order to so approximate the fragments as to sceure union. After the operation the fragments were woited by two wires and drainage tubes inserted. There has been no fever,

<sup>&</sup>lt;sup>1</sup>Recovery resembled that from simple fracture. One-fourth of an inch shortening resulted. The man is working at his trade.



(Error in chart-should be marked IV.)

Fifth. As a rule, it will be apparent that there can be little if any shortening.

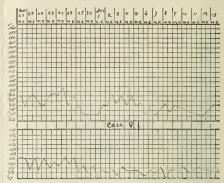
Case 5.—G. T. S., married, white; aged 41; weight 225 lbs.; heavy drinker; has had syphilis twenty years ago. Was admitted to the Cook County Hospital November 21, 1884, having fallen from a fifth story scaffolding and struck on one foot, causing a compound comminuted fracture of right leg. On examination it was found that the tibia was fractured obliquely (see cut 5), the line of fracture being four inches, and the fragments protruded markedly through the soft parts, which were very much lacerated.



FIGURE 5.—A, anterior view. B, posterior view. 1, 2, fragments removed on admission. 5, 6, 7, wires.

The fibula was fractured transversely and the foot could be bent at right angles with the leg without resistance. This was treated in the way already described, and the progress of the case towards recovery was only interrupted November 29, by a marked sloughing of tissues around the original wound, and on December 1 more sloughing occurred, causing the loss of substance, skin and cutaneous tissue in calf of leg three inches by four. The patient thereafter did well and was discharged nearly recovered April

1, there being a possibility of a small piece of bone to be removed. (See figure and chart.)



Sixth. Drainage prevents inflammation by preventing the accumulation of fluids, as in cases 1, 2 and 3.

Case 6.—A. S., aged 45; moderate drinker. In this case the left tibia was fractured as shown in cut VI, and there was a small external opening through the integument.

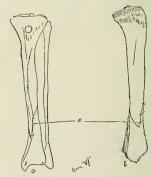
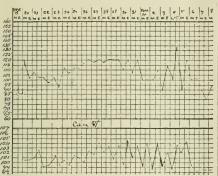


FIGURE 6 .- A, anterior view. B, lateral view. C, wires.

The fragments were not comminuted, but an extensive harmorphage which had occurred led to an enlargement of the external wound, and showed that the posterior tibial artery had been nearly severed by a sharp point of bone. The artery was tied and the fragments wired, and the wound treated in the usual

April, 1885, patient left the hospital against advice. There was an eighth of an inch shortening. There was a small opening. The lmb had a good contour, and union was apparently gnod, as the leg would sustain much weight. The patient, a chronic inebriate, returned with three weeks suffering from crysipelas, which was followed by abscess in thigh, knee-joint, and leg. The foot became markedly extended and ankle-joint limited in motion. He referenced the surgical ward within three weeks much emaciated, In an attempt to flex the foot the leg was refractured. September, 1885, the ends of the fragment were chiseled till the ends could be approximated and then joined by two nails. Good onno followed. The leg tissues were flably. He has since had three recurrent attacks of crysipelas. The leg muscles are much emaciated. The ankle joint is rather stiff, but improving. The patient can put some weight on the foot. Shortening, one-half inch.

by symptoms of gangrene necessitating amputation, tient bids fair to make an excellent recovery.1 after which the patient made a good recovery.1



Case 7. - F. W. B., policeman; aged 27; moderate drinker; has had venereal disease; was shot in anterior part of left leg and after injury attempted to use limb. There was a circular opening about the size of a nickle, extending down to the bone, from which a slight active hæmorrhage occurred. The wound was over the left tibia about the lower part of the middle third. The tibia was fractured in the way indicated in figure 7. The upper fragment being split in two, and the fibula was also fractured.

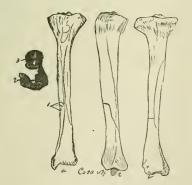


FIGURE 7.—A, anterior view. B, posterior view. C, lateral view.
1, wire. a, cloth. 3 bullet.

A longitudinal incision was made four and one-half inches in length, through the skin to the bone; the flattened bullet and a fragment of cloth lay about two inches from where the bullet struck. Very efficient drainage was made by a moderate sized tube. The With fragments were then wired, as in Case 3. the exception of the parts much contused by the

Pyzemic symptoms set in and were followed bullet, the wound healed by first intention. The pa-



Case 8 .- J. C., white; laborer; aged 40; fractured leg; (compound). The wound was at the lower third of the leg; the tibia was fractured into five pieces, and there was an oblique fracture of the fibula. The fracture communicated externally in three places.

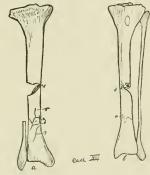


FIGURE 8.—A, anterior view. B, posterior view. 1, 2, 3, 4, wires 6 and 7, fissures.



<sup>1</sup> Recovered with between half and a third of an inch shortening During my absence an attempt was made to put on an interrupted cast. The wires broke through, the fragments became dislocated and numerous ulcers resulted from iron bar in cast. Fragments re-approximated and

<sup>1</sup> No further history obtained

There were several loose pieces of bone removed inguinal region returned; it extended down the leg admission; the patient dying five days later.

procedure, as it would have been a desperate one under any circumstances.1 (See figure and chart).

# OCCLUSION OF THE FALLOPIAN TUBE, DYSMEN-ORRHŒA, WITH CONVULSIONS AND OPIS-THOTONOS-LAPAROTOMY; RECOVERY.

BY R. STANSBURY SUTTON, A.M., M.D., LL.D.,

OF PITTSBURG, PA.

FELLOW OF THE AMERICAN GYNECOLOGICAL SOCIETY; OF THE RRITISH GYNECOLOGICAL SOCIETY; ASSOCIATE FELLOW OF THE PHILA-DELPHA OBSTETRICAL SOCIETY; MEMBER OF THE BRIT-ISH MEDICAL ASSOCIATION; PRESIDENT OF THE AMERICAN ACADEN

confined with her only child in 1876. Her labor was the exhibition of the narcotic, chloral hydrates and followed with an attack of cellulitis, especially severe bromides in large doses were substituted. The hot on the right side. For seven years her menstrual douches were continued and a blister applied over periods were painful, and for the last two and a half the right inguinal region. The mass in the pelvis the pain has been accompanied with convulsions. was now apparent to the touch and very sensitive to the leg and rendering locomotion difficult, increased mass in the pelvis had again disappeared. in intensity from month to month. After enduring this disturbance for nine and a half years, she consulted me near the end of 1885.

Examination.-Dorsal decubitus; perineum, partial laceration; cervix uteri, bilateral laceration. Vaginal walls relaxed; cervical and vaginal leucorrheea.

Neither of the ovaries could be distinctly felt. uterus was tender to the touch, and to this region she referred the pain she experienced during her menstrual periods. After this examination she returned home, and continued douches of hot water and counter-irritation over the right inguinal region until February 8, 1886, when she became an inmate of my private hospital. She reported that her distress at the time of her menstrual periods had increased since her visit to me near the close of the preceding year. Ten days after her admission she menstruated, and the pain she experienced during this period resisted all reasonable doses of morphia administered subcutaneously. An examination during the flow discovered, in the right side of the pelvis, a mass as large as a guinea egg and extremely sensitive. Morphia hot douches, local blisters and rest in bed were persisted in during the continuance of the Ilow, and when it ceased, it left her lame in her right leg for the flow, the mass discovered a few days previous could not be felt.

Nine days subsequent to the cessation of the menses and after six of comfort, the pain in the right

and the parts surrounding the fracture were severely on that side and rendered locomotion difficult and contused. The fragments were wired together, but painful. Bimanual examination revealed the mass extensive sloughing of the soft parts occurred and again present, situated on the right of the uterus and amputation was found to be necessary five days after almost directly behind the external inguinal ring. It was not as large as it was during the flow, but fully This case certainly does not militate against the as painful to the touch. Three days later it had again disappeared. Churchill's tincture iodine was liberally used over the vault of the vagina; local blisters applied; the hot douches were doubled in number and quantity and the temperature of the water raised to 115-120°, and absolute rest in bed required. On the morning of March 14 her second menstrual flow came on unannounced by pain. Twenty-four hours later a sudden invasion of agonizing pain occurred, and before sufficient morphia to relieve her sufferings could be administered, she had six convulsions, and stood on her head and heels, her body arcuate-perfect opisthotonos. Within a few hours nearly 2 grains of morphia were administered subcutaneously, produc-Mrs. R., an American lady, aged 31 years, was ing no apparent effect. Fearing a fatal result from Her menstrual periods became more and more trying, pressure. On March 19, after four days of severe and the pain in the right groin extending down into suffering, the flow ceased, and in three days more the

Diagnosis.—I could make none. Chronic cellulitis, recurring attacks of acute cellulitis, or local peritonitis was evident; but why? Was there pus, or blood in the tube? Possibly; but why no evidence except the pain and the mass alternately appearing and disappearing? Her leucorrhoal discharges might contain pus; I did not delay to exam-The portion of the vaginal vault on the right of the ine with the microscope; this I could do afterwards. I reasoned that this trouble was of long standing, steadily and rapidly increasing, and I decided to open her abdomen, discover the cause, and do all I could to save the life of the lady. I agree with Mr. Tait in the matter of opening the abdomen for exploration in certain cases. A diagnosis without this is not always possible, and the surgeon who delays operation until a diagnosis is made, will be often in error, and

On the 22d of March the bowels of this woman were cleaned out, and on the 23d, at 2 P.M., she was placed on the operating table and anæsthetized by the second nurse. Dr. Stone, my assistant, being necessarily absent, I assigned my chief nurse to his place. I then proceeded to open the abdomen with an incision a little short of three inches, and discovering a difficult operation awaiting me, I lengthened the incision to five inches. Through this I turned the several days. Three days after the termination of intestines out upon a towel above the upper angle of the opening, and gave them into the care of the nurse. An adhesion on the tip of the omentum was detached from something in the pelvis. I then discovered that the ovary and tube on the right side were firmly adherent to each other, to the broad ligament and the roof of the vagina; with great difficulty they were released with the fingers and drawn into view. The pedicle was secured with Fait's knot, and the ovary

<sup>1</sup> The patient's breath, on admission, smelled of whisky, and during his entire hospital sojourn he appeared dazed. The tissues were bleeding, but sloughing did not seem likely to occur; the shock from an amputation would have been greater than from the procedure adopted. We had no post-mortem; urine was not tested; exact cause of death not known,

and tube cut away. The left ovary was small, and NINE CASES OF IMPERMEABLE URETHRAL STRICTboth it and the tube appearing to be free from disease, they were not disturbed. The cavity was cleansed, the intestines replaced, the wound closed and the patient returned to bed. Carbolic acid did not touch the patient during the operation, and scalding water alone was used for the instruments and ligatures. The technique as pertaining to cleanliness was satisfactory. Drs. Lee, of Rochester, N. Y., and T. B. La Rue, of Smith's Grove, Ky., were present as visitors and witnessed the operation. I follow Mr. Tait in relying alone on hot water. No carbolic acid touches my patients.

Examination of the parts removed.—The ovary was twice the ordinary size and cystic. It contained a large proportion of healthy ovarian stroma, which was here and there crossed with fine lines of gritty tissue. An empty ovisac lay beneath the surface, ruptured, and proved that true ovarian action existed immediately prior to the operation. The tube was entire, with the exception of the fimbriated end; this was torn and a small portion of it absent. It exhibited the usual appearance, except a redder color. Its calibre was normal, except at the ulterior end, where it was occluded by a stricture so complete that the head of a needle used as a probe could not be

passed through it.

Rationale of symptoms.—The stricture in the tube doubtless arrested the ova, and to some extent accounts for the symptoms, but, in my judgment, had the ovary been free, this would not have caused pain. The ovary was bound to the fimbriated end of the tube and the surface of the broad ligament, and at the menstrual periods, its physiological increase was impeded; its products were imprisoned in the surrounding tissue, and the pain was largely caused by the pressure thus produced. During menstrual activity the mass appeared, and disappeared when it subsided. Its recurrence subsequent to the cessation of the flow, I suspect, was due to the excitement in the ovary during ovulation, which certainly occurs independent of menstruation.

Result.—On the day following the operation, the pulse was 108, and the temperature 100 1/4°; the next day both the pulse and temperature fell below 100. On the fourth day the stitches were removed. On the morning of the fifth day the pulse was 74, and the temperature 99° On the morning of the sixth the pulse was 65, and the temperature 98 1/20 (Fahrenheit). No farther rise in the temperature occurred, and her progress was rapid. From this date no further attention than that given by her nurse was required. She left the hospital for home on April 16; she had not as yet menstruated.

Remarks.-Does this case prove that, as gynecological surgeons, we are too aggressive? Does it prove that exploratory operations are useless and dangerous? So long as proper precautions as to place of operating and environment are observed, such operations will bring neither harm to the patient nor obloquy to the art. Of my last forty-one abdominal sections, none has given me less anxiety and

in me and my regard for duty.

## URE TREATED BY ELECTROLYSIS.

BY WM. T. BELFIELD, M.D.,

GENITO-URINARY SURGEON TO THE COOK COUNTY HUSPITAL, CHICAGO. The removal of urethral stricture by a galvanic current is a method of treatment whose merits and advantages have been generally ignored by specialists as well as by general practitioners. In very few of the standard text books is this method even mentioned, and in none that I have seen is it intelligently discussed. A few physicians have, at various periods in the past thirty years, briefly tried and then abandoned the current; and the report of their fail-

ures had deterred others from further investigation.

Unfavorable and even disastrous results have undoubtedly been produced by electrolysis; but they have generally been caused by the use of an improper current. To dissolve the cicatricial tissues constituting a stricture only the chemical, dialytic effect of the current is required or desired. Now the galvanic current liberates heat as well as chemical force; it will not only decompose a chemical compound, but will also raise a platinum wire to a white heat. The ill effects of the current observed in the urethra have evidently been produced by the heat; as formerly applied, the treatment of stricture by the current was in effect merely a cauterization of the urethra, which resulted of course in severe local inflammation and even extensive sloughing. Yet by proper management a galvanic current can be made to produce a strong chemical effect with an insignificant minimum of heat; or, in technical language, to produce great intensity with but little quantity. To this end the plates should be small and the fluid weak; but a number of cells (6 to 15) should produce the current. To Dr. Robert Newman, of New York, is due great credit for urging upon the profession the proper use of the current for electrolysis.

During the past two years I have practiced electrolysis for stricture upon thirty-seven patients; and I now use it almost exclusively except for strictures located within an inch of the meatus, and for strictures of large calibre elsewhere in the penile urethra (which I divide with Otis's urethrotome). In my experience the advantages of this method may be summarized as follows:

1. It is applicable to strictures at any point in the

urethra.

2. Any stricture or succession of strictures, however rigid and cartilaginous, however long and tortuous, however tight (even if impermeable), can be readily and safely perforated.

3. As a rule it causes no pain nor bleeding, is followed by no chill nor urethral fever, and it is always

devoid of danger.

4. When properly handled it can produce no false passage nor other local lesion.

5. The effects are more enduring than those of either cutting or stretching; whether or not they are permanent (as maintained by Dr. Newman), my experience does not yet enable me to assert.

more pleasure than the one just described. A new lease of life is this woman's reward for her confidence of life is the life is

therefore, electrolysis is generally far preferable to there being, according to the patient's census, twentythe usual methods, urethrotomy and dilatation. Thus seven openings, through which urine was discharged internal urethrotomy should never, under any cir- as if from a watering-pot; scrotum and perineum cumstances, he performed in the membranous urethra; were thickened and indurated. The patient was if made in the penile portion when the stricture is compelled to urinate every half hour or less, rising very tight, or very long, or very firm, the operation fifteen to eighteen times at night. He had been under is usually followed by severe fever and local inflam-treatment by different surgeons for five years; had mation, occasionally even by death. Dilatation is submitted to both external and internal urethrotomy, unsatisfactory—aside from the attendant pain and as well as numerous attempts at dilatation. For two tendency to induce urethral fever-because its effects years past he had been an invalid, devoting his whole are transient, and especially because it is inefficient time and attention to constant efforts at emptying in numerous cases. We are often called to treat the bladder. At the first sitting Dr. Miller passed a men of middle or advanced age suffering from old No. 10 bulb (French) into the bladder; the patient and rigid strictures, which are perceptible from the experienced no febrile reaction, but for the first time external surface as large, irregular, cartilaginous in several years passed a fair stream from the meatus. masses. Every attempt to dilate in these cases is The urine no longer flowed through the fistulæ, and apt to cause a chill and fever, and when this has sub- the patient was compelled to rise only once or twice sided the surgeon finds the stricture just as rigid and at night. At a second sitting a No. 12 French easily as tight as before. Electrolysis removes these strict- entered the bladder. ures without producing urethral fever.

for which electrolysis is not merely preferable to 1885, a young German was admitted to the County nrethrotomy and dilatation; it is, indeed, the only Hospital, suffering from complete retention of urine treatment practicable. These cases may be divided caused by an impermeable traumatic stricture of the

into three classes:

tention of urine. I have treated four such cases (English) into the bladder. Patient recovered nicely; where the strictures were impermeable to even the but in spite of the regular passage of sounds, the finest instruments, though the patients were still able stricture rapidly contracted again, until in May to force a little urine through them. In each case a (three months after operation) it scarcely admitted No. 12 French bulb was passed into the bladder a No. 4. I then commenced using upon it the galwithout difficulty; and the patients were immediately vanic current, and in six sittings raised the calibre to relieved from the annoying frequency and pain of No. 12 English. Since that time (July 1, 1885) he urination. In none of these cases did any chill, ure- has experienced no difficulty in urinating, and his thral fever or other constitutional disturbance follow urethra readily admits No. 11.

the operation.

2. Impermeable strictures with complete retention. I have treated by electrolysis three such cases, in each of which the bladder was distended to or above the level of the umbilicus. One was a traumatic stricture following rupture of the membranous urethra by a blow upon the perineum; in one of the others the strictures (of gonorrheeal origin) were scattered along the methra from meatus to prostate. appear before the Society this evening. He belongs bulb (French) into the bladder at the first sitting, caused by caustics, hot metals, etc., and has what vious to the operation, experienced a severe chill and has consequently become cicatricial. violent fever within the first twenty-four hours; but two showed no reaction.

wise) with perineal or scrotal fistulæ. I was privi- with hot iron four years ago. He was treated by a leged to see and report a most interesting case of layman for two weeks, and then consulted an oculist. this sort treated by my friend Dr. Truman W. Miller.

The lid had by this time grown fast to the eye-ball to A man 34 years old presented himself to Dr. Miller a considerable extent. Some operation was persuffering from numerous rigid strictures involving formed, but no permanent benefit followed. The nearly the whole urethra from the middle of the penile operation was repeated three times at intervals of portion to the prostate; not even a filiform bougie could be made to enter the bladder. The perineum exhibition of patient.

Even in the treatment of permeable strictures, and scrotum were literally honeycombed with fistulæ,

The permanence of effects produced by electro-There are, however, numerous cases of stricture lysis is indicated in the following case: In February, membranous urethra. I performed perineal ure-1. Impermeable strictures without complete re-throtomy without a guide, and passed a No. 14 sound

612 Opera House Block.

#### A CASE OF SYMBLEPHARON OF THE LOWER EYE-LID. WITH OPERATION.1

BY ARNOLD P. GILMORE, M.D.,

OF CHICAGO, ILL.

My patient, Mr. Shirley, has kindly consented to In each of these I succeeded in passing a No. 10 to that large class of persons who suffer from burns and to insert a catheter immediately. Each of these may be called complete symblepharon of the left patients was therefore saved from a perincal section, lower lid. His case is of interest, I think, to those which would otherwise have been inevitable. One of who do work in plastic surgery, and more particularly the three, who had an elevation of temperature pre- in surgery involving tissue that has been burned, and

The tissue af the eye-lid is such that very slight was entirely recovered on the third day. The other injuries will cause disturbance of its functions, and deformities. This is particularly true of injuries due 3. Tight and rigid strictures (permeable or other- to burns. Mr. Shirley's left eye was severely burned

<sup>1</sup> Read before the Chicago Medical Society, March 15, 1886; with

several weeks, the lid being detached each time and

operations proved to be successful.

The entire lower lid, from external to internal can-never wear a glass eye, and he would be disfigured thus, was then adherent to the eye-ball, covering all to that extent. most the entire cornea, save a small portion at the dense and difficult to separate.

My first operation was performed under cocaine, result of the operation will be good. which was ineffectual for so extensive a dissection, and the patient was very restless, increasing greatly the difficulty of the operation. I detached the lower lid and transplanted the conjunctiva of a rabbit to the eye-ball. For six weeks this operation was apparently successful. At this time I left the city and

tion on the eve-ball.

crowd out everything above it, I anchored a silver a good result. rope an eighth of an inch thick and one inch long in which I threaded with silver wires. I removed the tive exercise. silver rope, which had, by the way, become encysted, of fastening the plate.

provement of the appearance of the injured eye, nor cases doing well.
to restore its vision; but to relieve the irritation of The most sanguine advocate of viburnum could

ball or enucleate it.

There were two good reasons why I did not advise some plastic operation performed. None of these enucleation. 1st. There is enough clear cornea in this eye to make a small artificial pupil, if he should I first saw the patient about nine months ago. ever lose the sight of his right eye. 2d. He could

Only very slight reaction followed these operaupper margin. This triangular-shaped tissue was cov-tions, and at no time has there been much pus. I ered by a pale membrane, neither a true skin, nor a used cold water compresses and kept the wound pertrue mucous membrane; and I found upon cutting fectly clean. The sound eye has grown stronger in into it that it was composed of cicatricial tissue, very the last few days, in spite of the presence of the silver plate, and I am encouraged to believe that the

#### MEDICAL PROGRESS.

VIBURNUM PRUNIFOLIUM (BLACK HAW) IN ABORwas absent about two months. On my return I was TION AND MISCARRIAGE.—MR. JOHN HENRY WIL-amazed to see the lid fast assuming its original loca-son, of Liverpool, says: "In the number of the Liverpool Medico-Chirurgical Journal for January, Six weeks ago I performed the second operation, 1885, I reported six typical cases treated successfully under ether. I made a thorough dissection, freeing by this medicine; and since then, after considerable the lid entirely, and making a deep cul-de-sac. This, experience, I have been more and more confirmed in as you see, would leave the upper half of the eye- its value. I cannot say it has always succeeded, but ball covered with mucous membrane, and the lower in those cases in which it failed, I have been able to half uncovered. I then dissected a semi-circular account for its doing so. Either the medicine has band of conjunctiva, about one-third of an inch wide, not been commenced in time, and the ovum has been around and close to the cornea above, leaving a detached before the viburnum has been taken, or bridge at each end. This band I dropped into the there has been some reason to suspect a syphilitic cul-de-sac below and carefully stitched it to the ball. taint; and, in a case of fatty degeneration of the In order to prevent adhesions, for it is character-placenta, after not succeeding with the viburnum istic of this cicatricial tissue to grow underneath and alone, chlorate of potash was taken in addition, with

Dr Napier says "some women abort on the slightthe bottom of the cul-de-sac by bringing a free strand est provocation," and they continue to do so, although from either end of this rope through the cheek and every care may have been taken in the way of rest, tying them together. In spite of this, there was a medicine, etc., to prevent it. I have had many such tendency to form adhesions at both canthi. I threw cases, and have been greatly disappointed; but when a silver ligature around these adhesions, and tried to I have had the opportunity of commencing the slowly constrict them. But the process was slow and viburnum shortly before the anticipated period, and painful, as well as very doubtful. I then had a semi- continued it at intervals on the first appearance of circular plate of silver made, long enough to fill the threatening symptoms, these patients have invariably space between the external and internal canthi, with gone on to the full time, and done well, without two holes at the circumference one-half inch apart, being subjected to restrictions or debarred from ac-

In the next class of cases, where there may be and its removal was attended with considerable bleed- reason to suspect even a partial separation of the ing and pain. I cut all adhesions and sunk the sil- ovum and a dilated external os, with severe pains ver plate into position by bringing the wires through and haemorrhage going on for hours, and the patient upon the face and fastening them by small lead plates under the impression that she could not possibly go and perforated shot. I claim priority in this method on to her full time, and when I had almost despaired of any benefit from the medicine, I have been aston-The object of this operation is neither the im- ished at its effect, more than three-fourths of these

the other eye. As may be readily understood, if one not expect it to do impossibilities, or to prevent eve-ball is securely anchored to the lid the coordi-abortion when there is "a gaping os, and a detached nate action of the two eyes is interfered with, and ovum presenting." One might as well expect to rethe sound eye becomes weakened. In this case, in suscitate a dead body by galvanism. I have never order to preserve the health of the other eye, it had seen ill consequences follow the administration of the become absolutely necessary either to free the eye- medicine, however often the dose has been repeated. In two cases only has it been followed by slight head-

ache. One patient inquired if she had not been plank by nails, the vertebræ and the ilia being firmly taking quinine. The symptoms had been relieved; secured. The hip-joint was left thoroughly free, so that therefore it was not continued. In the other case, flexion, extension, and rotation outwards could be the patient had taken 4 grains of the extract every effected without hindrance. Extension was practised two hours. The only change was to extend the in- as on the living body. The weight attached was four terval to four hours, and then gradually discontinue kilogrammes. The experiment commenced at 10:30 it. Some patients have taken viburnum at intervals A.M., and was continued until 7 P.M. Rigor mortis during the whole course of their pregnancy. It was absent. The operating room was heated to seems to act as an uterine tonic and sedative, and about 77° Fahr. The limb was frozen with salt and to relieve the woman of those harrassing nervous ice, and afterwards with salt and hydrochloric acid. forebodings which often lead to abortion. The patient, after taking only a few doses, has quite a as wood. A section was made with a saw in the dichanged expression. From a drawn, desponding rection of the neck of the femur. The relations of look, her countenance becomes cheerful and happy. the contiguous parts were not disturbed. It was Since I have prescribed viburnum, it has not been easily observed that the articular surfaces were not in tion more than a few days; whereas, under the old half a centimetre between them and the centre of the treatment, they occasionally spent weeks in bed, and, joint at the highest point. The cartilage of the head after all, abortion has taken place. On some of the and the lower part of the articulation were in conblack haw, although she may be taking medicine with the upper part, the space existing between the articua criminal intent. My experience would go far to lar surfaces was filled with a soft fungoid growth. The confirm that opinion, for I have had patients in whom head of the femur had slipped downwards; one-half, a succession of abortions have taken place, but, when which was not flattened like the upper part, but under the influence of the medicine, they have been rounded, lay beyond the cotyloid cartilage. This able to resist the severest tests-frights, falls, strains, experiment showed that the separation of the articuetc .- and no ill effects have followed.

at first, the liquid extract was ordered, but the smell extension forty-five days before death, not to that was so strong and objectionable that the whole house practised on the dead body. Nearly the entire capbecame impregnated; and in two cases, where the sular ligament had degenerated into fungoid growth, stomach could not retain it, the liquid was given as and was unable to resist the influence of traction. an enema. I now order the extract in pills of 4 M. Verneuil said that M. Lannelongue's experiment grains, and find it a convenient form; as usually explained a fact that had recently come under his made, they soon absorb moisture, and run into a notice. On examining a patient with a very severe mass; but I now advise them gelatine-coated. These form of hip-joint disease, he observed that the limb pills keep any length of time, and 1 advise my pa- was shortened, and that the great trochanter was distients to keep a supply by them. I have such confi- placed upwards. He supposed that there was incomdence in viburnum prunifolium that I am anxious the plete dislocation, and decided on practising resection. profession should give it a trial, feeling assured they He then found the head of the femur lying in the

April 3, 1886.

Hospital, recently read notes before the Paris Surgical the great trochanter, should not warrant the conclu-Society on the method of traction by the application sion that the head of the femur is really dislocated. of weight and continuous extension in treating articu- - London Medical Record, March 15, 1886. lar affections, especially strumous hip-joint disease. Le Sauvage, of Caen, described in 1830 this method of treatment, but the American surgeons were the in a note on this subject, says that he finds papain first to realize its importance, and to endeavor, by chiefly valuable in the following classes of cases: the aid of different apparatus, to keep the head of the

necessary to keep the women in the horizontal posi-contact with each other; there was an interval of plantations in America, it is the popular belief that a tact. The capsular ligament was strained over the woman cannot abort if she be under the influence of head of the femur, and lay close against it; but in lar surfaces was an actual fact. It must be remem-With regard to the mode of administering the drug: bered that this result was due to the application of will not be disappointed.—British Medical Journal, acetabulum. It must be concluded that, at a certain period of this disease, the femur becomes deformed, and presents the characteristics of partial dislocation. THE TRACTION TREATMENT OF MORBUS COXARIUS. In future, an apparent shortening, even of three -DR. LANNELONGUE, Surgeon at the Trousseau centimètres, accompanied by a moving upwards of

PAPAIN IN DYSPEPSIA. - DR. GEORGE HERSCHELL,

1. Chronic Stomach-Catarrhs of Children.—Every femur from contact with the acetabulum. A child, 4 one of us is familiar with that state in which we find years old, in M. Lannelongue's wards, died in the children at times, and which is very frequently called early stage of hip-joint disease; its limbs had been "biliousness." It is characterized by loss of appeunder the influence of extension since Oct. 22, 1885; tite, languor, pasty complexion, loss of sleep at night, a weight of two kilogrammes, increased to three, had and irritability during the day. There is frequently been employed. The apparatus was removed four frontal headache, and the urine is loaded with lithates. days before the child's death from croup. An experi If this state continue for any length of time the child ment on the dead body was made during a severe emaciates, the unhealthy mucus which sheathes the frost, and the body was perfectly preserved. The stomach and intestines preventing the due absorption pelvis was separated from the trunk and fixed to a of the food. Cod-liver oil and compound syrup of the phosphates, which are generally given for the From the end of September to the present time, following prescription:

Papaïn (Finkler).... gr. ½-gr. j. Sach. lactis. gr. j.
Sodii bicarb gr. v.
M. To be taken after every meal.

It is also advantageous to give a drop or two of tincture of nux vomica immediately after the meal in a the food.

well in the presence of an alkali, a sufficient quantity order it in the following manner:

R. Sodii bicarb gr. xv.
Glycerin. acid carbolic m viii.
Spirit ammon. aromat m xx.

It appears that, taken one hour after a meal, a smaller dose of papain is required to produce the same result than if taken with the food.

3. Cases where Severe Gastrie Pain coming on Shortly after Eating is the Prominent Symptom.—I have tried the drug upon twelve cases of this nature. Complete relief was given in ten, one case was partially relieved, and one completely failed to derive any benefit.

Apart from its internal use, papain will probably come into extensive use as a peptonizing agent, to prepare ready digested food and enemata, in the way in which pancreatin and pepsin are used at present. -British Medical Journal, April 3, 1886.

CORROSIVE SUBLIMATE IN DIPHTHERIA. - DR. WERNER, medical officer to a circumscribed factory

complaint as soon as the child begins to lose flesh, however, during which period there have occurred are not assimilated. Sometimes a cough develops, seventeen cases, all of which were treated with perand the child is supposed to have incipient phthisis. chloride of mercury, and many of which were very I have found these cases rapidly improve with the severe, there were only two fatal cases, neither of which was seen till a few hours before death. The author's method is as follows: For young children he dissolves a quarter of a grain of the perchloride in 4 oz. of water, for children of 6 or 7 half a grain in 6 oz. of water, and for adults three-quarters of a grain in 8 oz. of water. This solution is given to the patients while they are awake every twenty or thirty little water. The paparn probably acts by dissolving minutes, in measured doses, so arranged that the the mucus, and thus facilitating the absorption of quantities made up shall last from twenty to twentyfour hours-i. e., about half a drachm in the case of 2. Acid Dyspepsia.—This drug is extremely valu- young children and a drachm in that of adults. When able in this form of indigestion. a. As it acts equally a good deal of sleep is obtained larger doses are given at longer intervals. As a rule only milk is alof bicarbonate of soda may be given with it to neu- lowed as nourishment. If considerable pyrexia extralize the excess of acid in the stomach without im- ists, an enema of from ten to thirty grains of antipyrin, pairing its peptonizing power. b. Its antiseptic action according to the age of the patient, is given, the checks the abnormal fermentation to which much of rectum having been previously cleared out. Exterthe accompanying flatulence is due. c. An antiseptic nally ichthyol is diligently rubbed in over the swollen can be given with it to increase this action. I usually glands three or four times a day, the fingers being wetted with water when dry to permit of the rubbing being continued for some time. For the first two days of this treatment the local affection usually undergoes no improvement, but on the third day it begins to diminish and the general condition becomes better, the appetite increasing and the children re-gaining their wonted spirits. In no case did the author meet with the extreme debility which was frequent in cases treated by pilocarpine, even when the local affection was decreasing. As the patients approach convalesence the medicine was diminished, so that more than six bottles were never required. Complications never occurred, though three of the patients had previously had scarlatina.-Lancet, April

CALOMEL AS A DIURETIC.—JENDRÁSSIK has used calomel with excellent results in the dropsy of heartdisease. In six cases, comprising twenty-four separate experiments, diuresis occurred twenty-three times; the maximum daily amount of urine varying between 2,100 and 9,500 cubic centimètres (95 to 339 ounces). The amount of diuresis depends on the dose of caloniel given. As a rule, the dose was 0.2 gramme (11/2 grain), three to five times a day The diuresis did not appear till after the administration of the drug population of about 2000 near Narwa, in the Gulf for one day, and lasted as long as the cedema was of Finland, writes in the St. Petersburger medicin- present. Unfavorable symptoms noticed were a ische Wochenschrift describing the satisfactory results metallic taste in the mouth, salivation, and stomatitis; he has obtained in diphtheria by treatment with but it is important, the author says, that the diuresis perchloride of mercury internally, combined with appears before the onset of diarrhoa caused by the ichthyol inunctions. The disease is very frequent drug. The urine contains an excess of chlorides; and fatal in the locality, he having attended during hyaline casts are often seen. In a case of pleurisy, the last six years ninety cases, the average mortality with effusion, calomel had no effect on the urine. of which was between 60 and 70 per cent., the ma- As to the mode of action of the drug in cases of jority succumbing from general weakness when the cardiac dropsy, the author says that it can hardly be local affection was passing off or after it had quite through the heart, which is only secondarily and disappeared. Last year the type was peculiarly se- slightly affected by calomel. It is probably through vere. In July, August, and September eleven cases the kidneys, a sort of diabetes insipidus being estaboccurred, of which no less than nine proved fatal. lished. As precautions in the employment of this

mode of treatment, small doses of laudanum combat upon is too limited to admit of deductions by means incipient diarrhea; and for the stomatitis a mouth- of which a final settlement of this question can be wash of chloral of potash is prescribed from the first. made in the minds of surgeons, the future practice of Though no harmful action on the kidneys was noticed, the surgery of America, the birthplace of this operaa caution is given against employing this treatment tion, and the practice of other countries, will soon in disease of the kidneys.—London Medical Record, enable us to condemn it as an unsafe and unjustifiable March 15, 1886.

phia correspondent of the Atlanta Medical and Surgical Journal states that it might be of interest to mention a convenient substitute for Fehling's solu- distinguished oculist, Dr. Aguilar y Blanch, contrition in testing for sugar in the urine. The ordinary butes to the Cronica Medica of Valencia a paper on solutions deteriorate on keeping, and are liable to cholera and neuro-paralytic keratitis. His conclusions throw down the sub-oxide of copper themselves if are these: 1. Cholera may give rise to a disturbance not freshly prepared. Prof. Holland, of the Jef- of the visual apparatus. 2. This is most apt to ocferson Medical College, recently gave the following cur in the comatose form of the disease. 3. Children, test fluid, which is very efficient, is easily prepared, and individuals with little organic resistance, are most and is not spoiled by keeping:

GLYCERINE CUPRIC SOLUTION.

 Cupric sulphate.
 3j

 Glycerine.
 (3j)

a few minutes to test the purity of the fluid; should yellowish, extending superficially rather than in depth, it remain clear then add a few drops of the urine. If disintegration of the elements in its centre, perforaglucose be present in quantity there is at once thrown tion, hernia of the iris, total mortification of the down a red precipitate, just as in the ordinary Fehl- corneæ, phlegmon of the eye. 8. The point affected ing's test. To detect minute amounts of sugar, not is always the centre of the cornea, from whence it shown by above procedure, after making the test as extends after previous infiltration. 9. The disease above, add half a drachm of urine, boil and set aside. Jields promptly, if taken in the early stage and with appropriate treatment. 10. The treatment consists the liquor, as it cools, will turn to an olive green in hot fomentations, bandage, eserine, iodoform, and color and become turbid.—The College and Clinical tonics.—London Medical Record, March 15, 1886. Record, April 1, 1886.

following conclusions:

operation of wiring the fragments. Fowler's cases, corroboration of this statement.

present statistics, is wholly justifiable.

Third.—In debilitated patients, and in those sufferall other operations of expediency.

little faith in the germ-theory of inflammation.

guilty of a criminal act toward humanity if he at American Journal of Obstetrics, April, 1886. tempts this operation.

Sixth.—While the number of cases yet operated

procedure, or else it will raise it to a pinnacle from which we can recognize one of the grandest triumphs A TEST FOR SUGAR IN THE URINE.—A Philadel- of our art.—New York Medical Jour., April 10, 1886.

CHOLERA AND NEUROPARALYTIC KERATITIS.—The affected. 4. The poor and ill-fed give the greatest contingent of patients. 5. The ocular affection is characterised by a neuro-paralytic keratitis. 6. In the majority of cases, both eyes are affected. 7. It To make the test add five drops of this solution to follows the ordinary phases of this form, i. e. primary one drachm of liquor potassæ, in a test-tube. Boil molecular mortification of whitish color, becoming

TREATMENT OF PERI-UTERINE HÆMATOCELE BY THE METALLIC SUTURE IN FRACTURE OF THE MEANS OF NEGATIVE GALVANO-PUNCTURE.—At a PATELLA.—At the close of a paper on this subject recent meeting of the Association Française pour P Dr. Frederic S. Dennis, of New York, draws the Avancement des Sciences, Apostoli described this method as follows: . The chemical-caustic action of First.—In compound fractures of the patella there, the continuous current is utilized in making an openis not the slightest question as to the propriety of the ing into these tumors. The opening thus made is, in character, a non-retractile fistula, with tendency to James's, and my own, bear undisputed testimony in remain open, and with adhesions between the pathological cavity and the external mucous membrane. Second.—In recent and old fractures, with the full The depth of the fistula varies with the intensity of permission of the patient and under the strictest an- the current strength. The advantage of this method tiseptic precautions, the operation, in the light of is that, on account of the adhesions formed, the danger of opening is lessened, and the cicatrix left by the negative eschar is slight and non-contractile. ing from any organic disease, the operation should A further after-effect of this method of utilizing the not be employed, and is, in fact, contra-indicated, as chemical caustic action of this current is that the nutrition of these pathological cavities is modified, lead-Fourth.—It is not an operation which can be in- ing to rapid retrograde metamorphosis. Apostoli discriminately performed, and never by an ordinary has treated one case by this method, and the excelpractitioner with little surgical experience and with lent result obtained leads him to the following general the faith in the germ-theory of inflammation.

Fifth.—The success of this operation depends and modifies the usual prognosis. The method is, in wholly upon conscientiously carrying out the smallest action, double—it has a surgical effect and a medical detail in aseptic surgery, and the surgeon who is not effect. It is applicable alike to hamatocele, abscess, imbued with the true spirit of antiseptic surgery is fibromata, interstitial myomata, extrauterine cysts.—

#### Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest io regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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CHICAGO, ILLINOIS.

#### SATURDAY, APRIL 24, 1886.

#### THE PHYSICIAN AND HIS CULTURE.

An English contemporary, in a recent note under this title, quotes Sir Robert Christison as an authority that Latin and Greek cannot be dispensed with in the education of one who hopes to be a successful physician, and that medical nomenclature, so largely of Greek and Latin derivation, cannot dispense with the ancient languages and rely upon Saxon words; and few, we think, will take exception to these proposigeneral and special culture of professional men.

for wood-chopping, so far from being a vagary or de- if by pleasure he meant inactivity, idleness or ease. noting eccentricity, is simply the wise recognition and That no absolute rule can be laid down for all men

following out of a physiological law. But aside from this, What is gained by alternation of activities, by dropping one form of mental work and taking up another? The first consideration is that in order to derive benefit from it the first form of activity must not have produced exhaustion; and exhaustion is shown when, on taking up a new form of activity, the mind continues to run in the old channels. The taking up of another form of activity may be really a remission of intellectual strain. It is not necessary to be idle to rest the brain; on the contrary, it is generally better to take up an amusing and lighter occupation than to be entirely idle. The "rest, that strengthens unto virtuous deeds" is, then, not the rest of idlenesss; a fact recognized by Cowper when he says

> "Absence of occupation is not rest A mind quite vacant is a mind distress'd."

Obviously, our word culture may relate either to something acquired by the youth before entering upon the study and practice of his profession, or to some subject in which the practising physician becomes interested and learned or skilled-and we may very properly designate these as involuntary and voluntary culture. Of these the latter is usually more complete, and generally, though not necessarily, more useful. When acquired by professional men it is usually gained while in pursuit of mental relaxation, which is so necessary to those who do faithful work in their tions. Just how well versed in the classics the phy- chosen fields. "Do you imagine," says Cicero, "that sician should be, however, is a point which Sir Robert I could bear up against such a strain if I did not redoes not discuss; nor will we until something has lieve it (the mind) occasionally by philosophical inbeen said regarding other matters relating to the quiries?" The actions, if not the words, of learned men of almost all ages have borne out this idea. Culture has been well defined as that knowledge We see the Premier of a great nation turning aside or training which is essential to, at least, a provisional temporarily from the cares of State to write forcibly completeness of human nature; and a large part of and learnedly of philosophical and historical matters: it consists in having a due appreciation of the extent A surgeon lays away the scalpel to investigate princiand importance of those fields or branches of knowl- ples of combustion. Egorovitch Min takes refuge edge which we cannot make our own, being outside from professional cares in language studies and leaves of our profession or line of work. Students of a the literature of his country in debt to him when he learned profession who delve in outside fields ac- dies. It is easily seen that these are not isolated knowledge, consciously or unconsciously, the law of cases; on the contrary, it seems to be the rule with alternation and remission of activity. Sleep, of the most diligent workers in any department to have course, is the only entire and absolute cessation of some outside study for the relaxation, conscious or activity, and if we may believe that there can be unconscious, and amusement which it gives. It is sleep without dreaming, this is the most complete not the indulgence of idleness, for men who work cessation. During the waking hours the most com- cannot enjoy absolute inactivity, nor can they be inplete diversion is afforded by our meals, during which, active. We may paraphrase the saying of Euripides, if we do not eat alone, the trains of thought are "there is no one who seeks to live in pleasure that changed while the body is rested. So also of bodily has reached fame," by "there is no one who reaches and muscular exercise; and Mr. Gladstone's penchant fame that can live in pleasure; man must labor;"

as regards the different side studies by which the mind The answer given by Mr. Huxley is sufficiently may be relaxed, rested, and at the same time fertilized, clear: "Living matter is characterized by its innate goes without saying. The most that can be said may tendency to exhibit a definite series of the morphobe given in Bain's words: "The kind of change that logical and physiological phenomena which constitute may take place within the field of study itself, and organization and life. Given a certain range of conthat may operate both as a relief from strain and as ditions, and these phenomena remain the same, a reclamation of waste ground, is best exemplified in within narrow limits, for each kind of living thing. such matters as these:-In the act of learning gen- They furnish the normal and typical character of the erally there is a two-fold attitude—observing what is species, and as such, they are the subject-matter of to be done, and doing it. In verbal exercises we ordinary biology . . . . pathology is a branch of first listen and then repeat; in handicraft, we look at biology; it is the morphology, the physiology, the the model, and then reproduce it. Now the propor- distribution, the actiology of abnormal life." tioning of the two attitudes is a matter of economical The practical study of physiological chemistry, adjustment." Too much observing impairs the en- while not a purely side study, may also be mentioned. ergy for action. Working from a model gives the Very valuable work in this field has been done by proper adjustment between observing and doing. physicians in active practice. Of the study of the One of the most marked contrasts, and a most grate- fine arts, including modeling, it may be said that they ful change, is the passing from the study of science not only possess a rare interest, but a knowledge of to that of language. The transition from one de-drawing and modeling is of very great practical value partment of science to another is often a most grate- to the doctor. They are much more cultivated ful relaxation. The change from one language to abroad than in America. We cannot expect that another is a real, though not a very marked relief, every doctor may become an artist or a sculptor, but save when it is made from the less to the better known. there are very few who cannot learn to draw a good The study of the fine arts brings distinctive organs figure, or to make a fair model of a diseased or malinto use, and has to many a pleasurable interest not formed part. A practical knowledge of mechanics usually possessed by other studies. Many of the is also of value. Mechanical and physical principles "outside studies" have a very direct bearing on are constantly coming up in medicine. It is not medicine: modern languages, biology, zoology, physi-necessary that the doctor should be able to make a ological chemistry, drawing and modeling may be steam-engine, but so much the better if he can. This mentioned as the more important in this connection. knowledge is especially valuable to the surgeon, and When properly undertaken these studies constitute to that man of (usually) so many resources, the something more than mere amusement, as indeed country doctor. may be said of any side study. Very valuable work We have already signified our agreement with Sir has been done during excursions into other fields than Robert Christison, and the Lancet, that the Greek and the chosen profession, as witness the work of James Latin derivatives cannot be superseded in medical Veitch, the plow-maker, in optics; and, we may add, nomenclature. The truth of this is apparent on a his discovery of David Brewster, who, in turn, did very superficial examination, though not because some most excellent philosophical work while yet a minis- one says it in an autobiography. Ichthyosis is in ter. The same is true of Priestley. In these two every way preferable to any Saxon name that can be cases, however, the side study took "the expulsive used for it. This, however, would not justify the aspower of a new affection,"

sertion that one who is even a master of the Greek The study of foreign languages is of great impor- language would know, by the etymology alone, what tance to the physician, even though he may have no ichthyosis is or means. The chief merit of this nomentaste for general literature. In very many cases there clature is that it may be used by writers in all lanis no necessity for a teacher, and time and oppor- guages; whereas if we had a Saxon term, the German tunity may be wanting to attend a regular class. By writers would have a German term, the French a French subscribing for a medical journal and buying a gram-term, and so on to the end of the chapter. The fact mar and dictionary of the language to be studied, is, too much of this is now done, especially by foreign one may by a little carnest work each day soon ac-writers. Our French and Italian confrères, especially, quire sufficient familiarity with the language to read seem to have a special aversion to the use of scientific it readily. Some have questioned the value of biology terms. But as regards Sir Robert Christison's saying to medical men-the logical connection between the of Latin and Greek, "that of all the studies suitable purely scientific doctrine of disease and biology, for boyhood there is no other which is so likely to

strengthen the memory, imagination, attention, and judgment, so certain to instil taste, so useful for imperceptibly infusing an accurate and ready use of English, or so indispensable as the groundwork for acquiring modern tongues," it is only necessary to say that it shows a want of knowledge of the mental go Herald of the 16th we clip the following: "Those processes involved in studying any subject; and, further, of the family relationships of some of the modern languages. It is a mistake to attempt to prove something by quoting what some one says of it.

#### THE PAPERS AND THE DISCUSSIONS ON PAPERS READ BEFORE THE ASSOCIATION.

In view of the facts that the discussions on papers read before societies are often as valuable as the papers, and that those who engage in the discussions frequently complain of the manner in which their remarks are reported, it seems desirable that each one discussing a paper should write out his intended remarks previous to the reading of the paper, and amend them afterwards if necessary, or else should write them out in full as soon after the discussion as possible. When possible the remarks should be written out in ink, the pages properly numbered. with the name of the reader of the paper, the title of the paper, and the name and address of the speaker on the first page.

It would seem unnecessary to call attention to the fact that the reader of a paper should put his name and address on the paper, with the date on which it is read, and whether read by title or in a Section. One or more papers read at the last annual meeting of the Association were sent to THE JOURNAL with no clue whatever as to the author. When papers are written in parts, each part should be distinctly marked. Neglect of this precaution last year caused a valuable paper to be printed second part first, since there was nothing, in the subject-matter of the parts, which indicated which should have precedence. Each illus tration for a paper should have the name of the author upon it, and each one should be numbered. If one author have more than one illustrated paper, a part of the title of the paper to which it belongs should be also placed on the illustration.

We would again remind members of the Association that all addresses, papers, and discussions are the exclusive property of the Association, and should be delivered to the Permanent Secretary or to the Secretary of the Section in which they are read during the meeting of the Association. The rule on this subject is explicit, and having been adopted by the Association is binding upon each member.

#### A NEW TEST OF MEDICAL COLLEGE STANDING.

The Illinois State Board of Health held its regular quarterly meeting in Chicago, commencing April 15, 1886. From a brief report of its doings in the Chicapresent were: Drs. Bateman, Clark, Ludlam, Rauch and MacKenzie. A resolution was passed to the effect that the continuous graduation of 45 per cent. of the total number of matriculates of a medical college-due allowance being made for the average annual loss-must be accepted as prima facie evidence that practically every candidate is graduated without regard to competency or qualification; that it be resolved that no medical college be recognized as in good standing within the meaning and intent of the act to regulate the practice of medicine in the State of Illinois, the aggregate graduates of which amount to 45 per cent. of its aggregate matriculates during a period of five years ending with any session subsequent to the session of 1885-86."

From this it appears that any person who hereafter presents a diploma to the Illinois State Board of Health to procure a license to practice in that State, must accompany it with proof that the college granting the diploma had not during the five years preceding the date of said diploma graduated an average of 45 per cent. of the whole number of its matriculates. Or will the Illinois State Board of Health add to the list of requirements that all medical colleges must comply with in order to be recognized as in "good standing," another, requiring the Dean or Secretary of every medical college in this country to furnish the Secretary of the Board, annually, a sworn statement of the actual matriculates and graduates under penalty of forfeiting the "good standing" of the college if he refuses or omits to comply? Only a few months since, Judge McAllister, in rendering a decision of the Appellate Court in this city, declared very distinctly that the Illinois State Board of Health was an executive body simply, with no legislative functions, more especially in regard to medical colleges. But nevertheless, the Board continues to perform the double duty of both making and executing laws. This last act of legislation may be found rather difficult of execution. It may be found quite as easy for a medical college to add to the published list of its classes enough names to keep the list of their graduates from exceeding 44 per cent., as it is for it to insert a clause in its announcements saying that a certain amount of general education will be required for admission whether any attention is ever given to its execution or not.

#### STROPHANTHUS.

The physicians in this country who have made unsuccessful attempts to obtain specimens of this drug will be pleased to learn that a tincture, prepared by douche was administered, and the hard, cartilaginous the method and of the strength recommended by Professor Fraser, is now made by MM. Burroughs and Welcome, Snow Hill Buildings, London, E. C. The British Medical Journal describes it as a clear, dark amber-colored fluid, miscible with water in all proportions, and yielding an opalescent solution. It can be dispensed with acids or alkalies, and does not change color with perchloride of iron. Its chief drawback is its intensely bitter taste, but it is seen that it has pharmacopæial advantages over tincture of digitalis.

vances in the south of Europe, indications of the upon the fundus, the thumb lying upon the palm. spread of cholera are again attracting attention. despatch dated Paris, April 16, states that sixty-eight cases had occurred in Brindisi, Italy, and that sixteen cavity. On turning the attention to the patient it deaths had taken place between the 8th and the 16th was discovered that the abdomen was so distended inst. It is reported that very stringent precautions are being taken to prevent its crossing the frontiers of both France and Austria. Still, the officials of Brindisi claim that the disease is sporadic.

#### SOCIETY PROCEEDINGS.

GYNÆCOLOGICAL SOCIETY OF BOSTON.

Stated Meeting, March 11, 1886. THE PRESIDENT, HENRY O. MARCY, M.D., IN THE CHAIR. H. J. HARRIMAN, M.D., SECRETARY.

The records of the February meeting were read and approved.

Dr. R. J. P. Goodwin, of East Boston, and Dr. W. Thornton Parker, of Newport, R. I., were

ELECTED TO ACTIVE MEMBERSHIP. DR. H. M. FIELD then presented a report of

A CASE OF INVERSION OF THE UTERUS, FOLLOWING UPON PARTURITION.

her first child on February 7, with a tedious and ensues in about twenty per cent. of recent cases, rather severe labor of twenty-eight hours. Delay whatever the treatment. A visit to Mrs. B. four had been chiefly caused by a rigid os. Fifteen hours weeks after delivery found her well. No irregularity before the birth a two-gallon douche of hot water in function of either uterus or bladder. Uterus in was administered, but had no effect. Dr. Field could its normal position. remember but one previous instance in which this Dr. Field closed with some remarks upon the parmeasure had failed to hasten dilatation of the os. No turient use of chloral hydrate. His experience has anæsthetics were used. An attempt to administer lead him to entertain a very favorable opinion of the

An occasional suppository of morphine and belladonna worked admirably. Thenceforth for nine hours progress was slow, the diameter of the uterine orifice being but little increased. A second hot ring of the os at once began to relax, and the labor proceeded steadily until the birth of the child, three hours afterwards.

At once, upon extrusion of the head, 3iij of fluid extract of ergot were administered. The fundus uteri was followed down by the left hand and, immediately after the birth of the child, Crede's method of expelling the placenta was applied; cautious and tentative traction being at the same time made upon the cord. Almost at once the patient uttered some exclamation, and it was discovered that both uterus and placenta were in the bed, the one organ so adherent to the other that it was difficult to determine the line of division. The placenta having been removed the uterus was reposited without much effort EPIDEMIC CHOLERA.—As the warm season ad- by steady and increasing pressure of the four fingers The hand was retained in utero for a little while to ensure continued contraction, and also to ascertain if any shreds of placental tissue still remained in the with gas that it was difficult to feel the womb in its cavity. The change in facial expression was sudden and very marked. The young and beautiful face which just before had been full of blood suddenly became pinched and haggard, and the color a blueish-white. Although everything proceeded favorably in the future progress of the case, it required nearly a week for a look thus suddenly assumed to pass en-This, doubtless, represented shock. tirely away. No hæmorrhage occurred, and the patient recovered without any untoward symptoms.

Dr. Henry E. Crampton, of New York, in an adadmirable monograph upon "Inversion of the Uterus, following upon Parturition," published in the American Journal of Obstetrics, has given the litera-ture of the subject. The present case well illustrates the following remark: "Shock is rarely absent. There is a peculiar anxious expression and manner. Every movement shows how profoundly the whole nervous system sympathizes with the terrible dislocation." In regard to traction upon the cords as a cause of inversion, Dr. Crampton says: "Traction upon the cord may produce prolapsus; if severe, procedentia. It will never alone produce inversion, but may facilitate it if paresis is present." It is most apt to occur in first deliveries, and is referable to a degree of paralysis in the uterine muscle, brought Mrs. J. W. B., 25 years of age, was confined with about by a tedious and exhausting labor. Death

chloral hydrate by mouth and rectum was unsuccess- drug, i.e., so far as he has been able to secure the

results which belong to the remedy. He called at- The tampon did not prevent a slight oozing of blood, tention to an unfavorable opinion of the drug ex- but the amount lost from the time when Dr. Field pressed by Dr. A. Pinard, of Paris, who has aban-first saw the case until he left the house was incondoned it on account of the difficulty in procuring its siderable. Soon the tampon began to bulge with retention and absorption. This difficulty, he insists, each pain, and a watery, grumous fluid to escape. is equally great whether exhibited by mouth or recit can be absorbed.

Dr. FIELD also reported a

CASE OF PROFUSE ANTE-PARTUM HÆMORRHAGE; PARTURITION; DEATH.

Mrs. J. H. L., 28 years of age, was confined at full term on January 27. She had had three previous confinements. Oldest child 8 years old; youngest, 18 months. No previous complication in parturition except a case of hour-glass contraction at birth of first child. Mrs. L. was of strong physique, cheerful disposition, and had had every alleviation which money could provide. Her last conception occurred gestation she had been under observation on account of slight bloating and a trace of albumen in the urine.

and found patient lying in bed, very pale and evidently much frightened. The pupil was so dilated that her blue eyes looked black. She had had no pain, but an uneasy sensation called her to the water closet, when "something seemed to break inside," and a deluge of blood came away. There were no stains on the bed and no clots in the vagina. There pleted with little effort. was a slight and inconsiderable trickling of blood was not losing blood she was given a half hour's rest, able to the posterior wall of the organ, and it is posmaterial in the meantime being prepared for a tamsible that an autopsy might have revealed a disseminated interstitial fibroid tumor in that location. a bandage was applied to hold the tampon in place. advisable in this case. ment in every particular.

frequent small doses, and soon labor pains set in. genital tract. Turning and rapid delivery was pro-

The tampon was then removed, and the head was tum. If given by mouth the bulky and irritating found to be engaged. The labor progressed rapidly potions, several times repeated, are apt to induce and was terminated at 5.05 P.M. Ergot was used vomiting and thereby unfit the stomach for food, both by mouth and hypodermically, and the uterus stimulants or medicine. If given by rectum there is contracted at once. The placenta, together with a still greater liability that it will be discharged before large venous-looking clot, was at once expelled, and everything seemed to be looking well. Leaving a trusty nurse in charge of the uterus, half an hour was spent in fruitless efforts to resuscitate the fœtus. One hour after the birth of the child it became evident that the mother was losing ground, though the uterus was well contracted and no blood of any amount being lost. Resort was had to hypodermic brandy at frequent intervals. At first a slight response was noticed, but later there was no response whatever, and the lamentable case terminated by the death of the mother two hours and a half after the birth of the child.

It has been suggested that another method might while she was still nursing. During later months of have been adopted in the treatment of the case. Turning might have been done at once when Dr. Field was called to the patient. Had it been a case On February 27 Dr. Field was summoned in haste of central implantation of the placenta, or had the flooding still continued, such heroic treatment might have been indicated, but as the hæmorrhage was under complete control and there was no indication for speedy and forcible delivery, it was thought best to give the patient a chance to rally. She did rally to a good degree, and her labor was light and com-

Dr. Field was disposed to believe that he underfrom the vulva. She had never seen a drop of blood estimated the amount of blood the patient lost before until the sudden flooding. No parturient pain was he saw her. Again, an autopsy might have revealed present. A gr. ss suppository of morphine and a some lesion or complication which could not have little iced brandy reassured her, the pupil returned been disclosed otherwise. No autopsy was permitto its normal size, and the pulse regained a fair deted. During the last hours of life, when the patient gree of steadiness and force. Digital examination seemed to be sinking, Dr. Field explored the interior revealed an os dilated to the size of a quarter of a of the uterus. The organ was firmly contracted, but dollar, and the foetal head high up. As the patient of rather abnormal size. This undue size was refer-

thesis at this time was that there existed a slight | Dr. Wm. G. Wheeler had had three cases of inlateral cervical insertion of the placenta. In support version of the uterus, and all recovered. Shock is of this it seemed to the examining finger as if a lim- generally prominent, but is not due to loss of blood. ited portion of the uterus just within the os felt a The uterus is readily replaced, but the pinched and little thicker than neighboring parts, as if at this haggard expression of the countenance is very marked, point the placenta might dip forward. It was decided and does not disappear for several days. He thought to apply a tampon to prevent any possible recurrence that death in Dr. Field's second case might have of the dangerous flooding. Each pledget of cotton been due to shock. If this was not the case there was dipped in undiluted Monsell's solution, and after may have been some pathological condition of the being slightly oiled with cosmoline, was firmly packed uterus which produced this unfortunate result. Dr. in place. After the vagina had been firmly packed Wheeler did not think that turning would have been

At this time Dr. Stoddard, of Newtonville, saw the Dr. Stoddard, who was the consultant in the patient in consultation, and approved of the treat-second case, said that he did not see the patient until after the tampon was applied, and therefore did After the tampon was applied ergot was given in not have the advantage of an examination of the posed at his first visit to the patient, but as hæmor- existed a rupture of the uterus which escaped notice rhage was under complete control, and there was no but caused death. He doubted if the loss of blood marked indication for such heroic treatment, it was caused death, as in many cases it is known that the not done. He regarded the treatment of the case loss of blood may be very great and yet not deas judicious. He had never seen a case of inver- stroy life. sion of the uterus.

version of the uterus. He thought that shock or sion. A discussion had recently arisen in a medical

death in Dr. Field's second case.

of inversion. He did not think the second case described one of partial placenta prævia, but regarded it as more probable that it was a case of interstitial ed. Dr. Cushing said that transfusion was likely to fibroid tumor. Monsell's solution is not, in his opinion, a suitable styptic for use where it is necessary Field's second, case. It was no easy operation to the patient may be maintained.

had been much interested in the cases reported. He with the action of the heart or lungs. Œdema of raised the question whether death in the second case the lungs may be due to this cause.

was not due to blood clot.

indicated in the second case when it was evident if an idiosyncrasy to ergot did not exist in Dr. Field's that the patient was sinking. His experience had second case. led him to believe that when the system was suffering from shock, absorption, either by mouth or sub-during the discussion, Dr. FIELD made the following cutaneous tissue, was in abeyance, and that the only statements: Milk or other nutrient material had not hope lay in throwing directly into the circulation been combined with the brandy on account of con-

tial inversion of the uterus. In the second case toms present which could support such an hypothereported he thought there must have been some un-known factor in producing death, such as interstitial indicated, and would have tried that means had he fibroids. He regarded the treatment of the case as had the time and necessary apparatus. The amount

version. He thought that internal hemorrhage may produced toxic effects. He did not think that an have been the cause of death in Dr. Field's second idiosyncrasy to ergot existed in the case. Chloral case. He related a case of sudden death soon after hydrate could not be administered hypodermically delivery which occurred in his own practice. Ilis on account of its irritating qualities. No hæmorpatient was a large and strong woman, and had been rhage of importance followed peeling off the plain labor twelve hours. She suddenly began to sink, centa in the case of inversion. and delivery was hastened by using the forceps, no anaesthetics being used. A child weighing  $17^{\frac{1}{2}}$  lbs. suggested a method of intravenous injection which was delivered without very much difficulty. The he had used quite a number of times with ease and case due to heart clot.

DR. E. W. Cushing asked if much hæmorrhage DR. H. C. White had never seen a case of in-followed peeling off the placenta in the case of inversome unknown factor must have been the cause of society as to whether it was best to try to separate the placenta from the uterus while it was extruded, Dr. W. Symington Brown had never seen a case or to replace the uterus and then remove the plato tampon the vagina, as it formed a hard, leathery perform, and even if successfully accomplished did clot. He generally uses boiling water, applied to not often succeed in averting a fatal issue. He the bleeding vessels by means of a dressing forceps mentioned the case of a strong and robust man in and a sponge. When a styptic is required on a tam- which transfusion was tried for excessive hæmorrhage pon Dr, Brown uses a weak solution of tincture of from the temporal artery. Although the case was a iodine, and has had good results from such use. It favorable one and the operation was successfully is important to combine nutrient materials, such as performed, the patient sank and died. Dr. Cushing milk and beef tea, with stimulants where the latter thought there was a cause of death in such cases remedies are required, in order that the strength of which might be overlooked, i.e., the gradual formation of a clot in the venous system, beginning at the DR. W. THORNTON PARKER, of Newport, R. I., periphery, and gradually increasing until it interferes

DR. WHITCOMB asked if chloral hydrate could be Dr. C. W. Stevens thought that transfusion was used hypodermically. He also raised the question

In reply to queries made by different members some material suitable to support the powers of life. stant nausea. He did not think that death could Dr. A. L. Norris had seen but one case of par- have been due to heart clot, as there were no sympentirely correct, and did not think that turning was of ergot given in the second case before the birth of the head was about 3j in divided doses. He knew DR. N. O. B. WINGATE had seen no cases of in- no evidence to prove that such doses of ergot ever

Dr. Marcy, in commenting upon Dr. Field's case, mother rallied well, and everything seemed to be success, and which had never been reported. It was progressing finely. After reaching home he was hur-the result of many experiments in injection of aniriedly called again and found his patient dead. The mals for anatomical purposes under continuous atnurse reported that she gasped a few times and died mospheric pressure. Milk is drawn directly from the very suddenly. Dr. Wingate thought death in this animal through antiseptic gauze into an aseptically prepared bottle of considerable size—one holding DR. HARBIRD asked Dr. Field in regard to the thirty to forty ounces preferred—and the rubber amount of ergot given in his second case before the stopper of the aspirator adjusted. By reversal of the birth of the head. He thought that there might have instrument, the air in the bottle is compressed, and

median cephalic vein without cutting, and when the week. end is free in the vein the connection with the bottle absence of air. The intravenous injection of milk size have been removed per vaginam. Rapidly growor saline fluids is thus simple and easy, and with ing fibroids are also rare after the menopause. proper care may be rendered aseptic. Transfusion mediate or immediate is not easy or simple. The dissection of a vein and introduction and tying of a canula in a patient nearly bloodless, perhaps dying, is difficult, and the Aveling instrument, with Dr. Marcy, had been very unsatisfactory even in a series of experiments upon dogs conducted with great care. The aspirator is now a part of the armamentarium of every physician, and by its use as suggested we have at hand a ready and easy method of adding fluid to the circulation which may save life.

In reply to the question as to the advantages which tion, he replied that he believed in all the instances used the patients have ultimately died, but good effects followed temporarily from the injections. They had been used only in desperate cases, and he believed they should be resorted to earlier and oftener than usual. Dr. F. B. Harrington, of Boston, published in the Boston Medical and Surgical Journal, followed after the use of six or eight ounces.

Dr. Marcy presented an

INTERSTITIAL MULTILOBULAR FIBROID TUMOR

which he had recently removed at his private hospital, assisted by Dr. Cushing, Dr. Corey of Westboro, will be glad to furnish any other inform and Dr. Goodwin, of East Boston. The patient, be required concerning the Congress. aged 53, had passed the menopause some years ago, and only within a few months had in any way been lowing interesting points on the alterations that the her to consult Dr. Corey. The tumor reached nearly atropine and of other alkaloids on the eye of a corpse. to the umbilicus and was situated in the anterior wall. In the greater number of cases, the pupils are dilated of the uterus. The cervix was obliterated and the os at the moment of death. The dilatation takes place admitted the finger. The uterine wall over the tumor a very short time before the person has expired. It profusely on section, after which the hemorrhage was The dilatation is of a paralytic nature, and indeslight during the operation. Strong vulsellum forceps pendent of the aspect that it presented during life, were hooked into the tumor, and it was cut away whether it was produced by the effects of drugs or piecemeal, the saw-spoon being used in separating by disease. More frequently, after death, a prothe growth from its investing capsule. It was removed gressive contraction of the pupil is observed, varypounds. The operation was conducted under irri- the moment of its appearance and the degrees of the gation with a solution of mercuric bichloride, and the contraction. This contraction ordinarily commences cavity filled with Seabury & Johnson's soft iodoform an hour after death and continues forty-eight hours

operation. Without permission the patient walked about her room, during the absence of the nurse, on the tenth day, and a severe perimetritis supervened; during a longer time, when atropine is injected into

the bottle, held cork down, is ready for use. The No. recovery from this was less rapid and the patient was I or 2 aspirator needle is easily introduced into the discharged convalescent between the fourth and fifth

The interest in the operation centres in the size of is made, first letting a little milk escape to ensure the growth, since it is very rarely that tumors of this

### FOREIGN CORRESPONDENCE

LETTER FROM PARIS.

(FROM OUR OWN CORRESPONDENT.)

The Congress of Hydrology and Climatology -Changes in the Pupil after Death-Hydatid Cysts of the Liver-Cardiac Stimulants-New Test for Codeine.

The first International Congress of Hydrology and Dr. Marcy had seen coming from intravenous injec- Climatology will be held at Biarritz, the 1st of October, 1886, under the honorary patronage of the French Minister of Commerce, and the presidence of Dr. Durand-Fardel, the well known hydrologist. The programme states that the aim of this Congress is to bring together in a country rich in thermal and sanitary stations, the learned men of all countries who would study in common the questions bearing on of March 4, a case in which sixty-six ounces of a salt hydrology and climatology. All societies and sciensolution had been used after a most alarming flood-tific associations, all learned men in France and ing, and the inference seemed clear that recovery was abroad are invited to take part in this meeting. Any dependent upon its use. Dr. Marcy had never in- person wishing to join the Congress must send in his jected more than ten or twelve ounces of milk at one application enclosing a postoffice order for ten shilltime; decided improvement of the circulation had ings, which must reach Paris by the 1st of September at latest in order to entitle the members to a reduction of fifty per cent. on the French railways. They will also enjoy other privileges which are detailed in the programme, which may be obtained from Dr. Durand-Fardel, 17 Rue de Guénégaud, Paris, who will be glad to furnish any other information that may

The Gazette des Hopitaux lately published the fola sufferer. Excessive and continuous flowing caused pupil undergoes after death, and on the action of was about one third of an inch in thickness and bled is produced very rarely a short time after death. in fourteen sections, and the entire mass weighed four ing within rather extensive limits, both as regards afterwards. The myosis, often unequal on both The patient rallied well, and during the ten days sides, is independent of the action of light and of following operation pulse was nearly normal, after a cadaveric rigidity. The pupil reacts, under the inreaction to temperature of 100 twelve hours after the fluence of atropine, after death, during a variable

the anterior chamber. Dilatation commences sensi- centigrammes; when the beats of the heart are irregbly after the same time, on the dead as well as on the ular or unequal, digitalis is the best remedy, and living eye; the action is less durable than in the dead adonidine is much less useful. On the other hand, death, produces contraction of the pupil, but for a arterial tension is too low. As a diuretic, caffeine is shorter time than the dilatation which is produced by to be preferred. atropine. Instillations of ergotine, after death, produce no change whatever of the pupil; an injection Academy of Sciences, a New Test for Codeine, as of this substance into the tissue of the iris, or into follows: If a trace of codeine be mixed with a sothe anterior chamber, produce a myosis of two hours' lution of one gramme of ammonium selenite in twenty duration. Pilocarpine has a weak myotic action on cubic centimetres of sulphuric acid, a beautiful green the eye after death.

Hydatid Cysts of the Liver, Dr. L. G. Richelot, son can be detected in this way. The reaction is not of the present editor of the *Union Médicale*, lately published a paper in that journal on the subject. He glucoside, except morphine. recommends the use of the aspiratory puncture, if only as a means of diagnosis. The cyst should be entirely emptied to prevent effusion into the peritoneum. In spite of all precautions, the liquid is reproduced, and it is only in exceptional cases that a complete cure is effected by the operation. In the CARBOLIC ACID INJECTIONS IN CARBUNCLE. majority of cases, however, a relapse is the rule, after To the Editor of the Journal: one or two punctures, the cyst suppurates, and then, in the event of a return of the disease, a free incision should be resorted to, instead of employing the aspirator, as the repeated use of the latter is not always inoffensive.

The ostensible object of the aspirator or the employment of a free incision is to avoid the necessity of making an opening into the peritoneal cavity, but He therefore recommends that at the very commence- the conclusion: ment, and when the diagnosis of a hydatid cyst of means the surgeon is enabled to examine the tumor more completely, and to decide as to the proper "Having considered the various known properties subsequent treatment that should be adopted. When of carbolic acid, I determined to use it in the sinuses a modified laparotomy, which is an operation not abling the surgeon to see what he is doing.

certain rules for the treatment of hydatid cysts of the sense of soreness. liver which have returned after the capillary puncture: 1. Free incision of the peritoneum with antiseptic precautions. 2. Exploration of the tumor. 3. Treatment of the cyst appropriate to its size and its connections.

In a memoir by Dr. Durand, of Lille, on Cardiac Stimulanes, and to which a prize has been awarded by the Catholic Faculty of that city, the author gives some valuable information on adonidine, and compares its action with that of other drugs, such as digiof intolerance. It should be given at a dose of 2

The instillation or injection of eserine, after the latter gives good results in all cases where the

M. Lafon describes, in a paper read by him at the color is obtained, which gradually changes by oxida-In a very interesting paper on the treatment of tion to a reddish brown; one milligramme of codeine

#### DOMESTIC CORRESPONDENCE

Dear Sir: - In the number of The Journal for February 13, 1886, page 185, I noticed quotations from an article in the Texas Medical Journal, of November, 1885, in which Dr. Wilkinson, of Galveston, states that for the last six or eight years he has used carbolic acid by injection in the treatment of carbuncle. In connection with his suggestion I deem it proper to note the fact that in the Toledo Medical Dr. Richelot is of opinion that this would be only and Surgical Journal, for 1880, I published an artitampering with the malady and losing valuable time. cle on this subject, of which the following extract is

"It is now about two years and a half since a pathe liver has been established, a free incision into the tient presented with two carbuncles, one on the back peritoneum should be practised, employing at the of the head, the other below it on the neck. They same time the usual necessary precautions. By this were of moderate size only, the upper being open in three places, while in the lower the skin was unbroken.

it is decided to cut through the peritoneum, Dr. Rich- of the upper carbuncle, and to use it vigorously. clot adopts the method of Volkmann; that is to say, Loading my hypodermic syringe and passing the point through the opening and into the sloughing dangerous in itself, and it has the advantage of en- mass in every direction, I completely saturated it with the pure acid, and awaited results. In a minute The author concludes his paper by laying down the smarting disappeared, and with it all pain and

" By this result emboldened, I again charged the instrument and thrusting it through the skin over the other carbuncle in a variety of places, I soaked the whole mass beneath the skin, enough of necessity escaping to fully bathe the borders, modify inflammation and destroy any septic elements there developed. I waited not without concern, and was delighted to learn in a few moments that all pain and soreness was gone in this also. The skin over the mass became quickly white, hard and dead, in a few days talis, convallaria, and caffeine. According to the detaching in the form of slough; the interior mass author, adonidine acts on the heart somewhat like also becoming loosened and only requiring the cutdigitalis, but it possesses no cumulative properties; ting of a few shreds to remove it, when the cavity its diuretic effects are very marked, and it can be was found to present a satisfactory appearance, and used for a long time without causing any symptoms rapidly filling up left an exceedingly small cicatrix. "The remarkable feature in this case was that after

injection. at once resort to it when case and occasion offer, bowels are thoroughly unloaded; after which I give: and advise others to do so, at least until the value of the measure is determined. In conclusion, I would advise the use of pure acid only, and to complete saturation; dilution would increase, if not create, and repeat the dose until I am satisfied that the ali-

cient, defeat the purpose for which it is used." Since writing the above, experience has fully con- a single case. The following are the only cases I firmed me in the correctness of all set forth, and I will claim space to report: had come to regard it as an important fact and conappeared in the illustrated circulars of instrument recurrence of the disease after the lapse of a year. tion having been coolly filched from me.

Truly yours, J. T. Woods, M.D. Toledo, Ohio, February 28, 1886.

#### TREATMENT OF CARBUNCLE.

TO THE EDITOR OF THE JOURNAL:

Dear Sir: - Your editorial remarks in THE JOUR-NAL of February 13, 1886, in regard to the treatment of carbuncle by the injection of carbolic acid, full strength, as suggested by C. H. Wilkinson, M.D., in Daniel's Medical Journal for November, 1885, p. 15, are timely, and the benefit of the treatment is confirmed by the success I have attained in the several cases in which I have used it. A few facts in regard to my methods, additional to the carbolic acid read before the Medical Society of the District of treatment, may not be out of place. I invariably

the complete saturation of the carbunculous mass, treatment of a patient for carbuncle. If sugar be no pain occurred, my patient going about his ordi-present, I put the patient on strict diabetic diet, and nary labor without discomfort. It is now but a year prescribe bromide of arsenic, three drops, twice a since I treated another case in a similar manner, with day, and inject the sinuses of the carbuncle with similar results, the party suffering no pain or even carbolic acid, full strength. If I do not find sugar soreness after the lapse of one minute following the in the urine I conclude, as to the etiology of the disease, that it is the retention in the alimentary canal "In making this suggestion, which so far as I know of excrementitious matter and the consequent poisonis new, I am conscious of the insufficiency of my ing of the system. The diet is temporarily restricted, cases, but I am so sure of its efficiency that I shall and cathartics administered until the stomach and

> B. Permanganate of potash..... gr. ss. M. Sig. At once.

danger of absorption, converting a very simple pro- mentary canal is thoroughly disinfected. I have cedure into one of great danger, and being insuffinever failed to cure carbuncle by this method; and thus far have not had a recurrence of the disease in

Case 1.—Mrs. McC., about 43 years of age, white, gratulated myself that I had at least, as a prior ob-married, and the mother of one child. She is of fine server, given this much to my profession. I care physique and generall, good health. She had suflittle about that point, however, but still think that I fered from carbuncle for a number of months, and may claim that much. But whoever was the first, it had submitted to various methods of treatment, and was independently used by me in the office in which about as soon as one carbuncle was cured, another I write this note, with some misgivings as to conse-made its appearance. Each successive carbuncle quences. Double discoveries are always possible, appeared a little higher up the back, the last one but in my case they have been quite striking. I being near the nape of the neck. It was about supposed myself to be the first to use the continuous three inches in diameter and had two sinuses. The pressure of rubber in chronic orchitis, applying the test of urine for sugar gave negative results. I adcommon rubber capote. I also made from a pair of ministered brisk cathartics and then gave permanpruning shears the first costatome of which I ever ganate of potash, and refused to cut the carbuncle. heard, and that, too, long before any note of them In a few days she was well; and there has been no

manufacturers; and invented and had made a device Case 2.—On February 12, 1886, James Owens apby which the piston-head in a syringe cylinder can plied to me for treatment of carbuncle. He was be made larger and smaller at will without removal about 40 years of age, white, a native of Texas, unfrom the barrel. These devices I showed freely to married, and a farmer. The carbuncle was situated many traveling men and others, and soon the back on the back, in the lumbar region and near the mesal counties were heard from. Some fellow patented line, and was three and one half inches in diameter. the syringe device, and it is now manufactured by There were three deep sinuses, and the parts were Lutz, of Indianapolis, and offered to the profession highly inflamed and painful. He had lost flesh, had with a flourish of trumpets as to its merits. I have no appetite, and complained of giddiness. I inin my possession the original instrument, made years jected carbolic acid deeply into all three sinuses, before the issuance of the patent, the merit of inven- gave him cathartics and followed them with permanganate of potash. In a few days he reported himself well.

I am convinced of the beneficent effects of the carbolic acid treatment; but to insure a non-return of the malady, I am equally convinced of the necessity of disinfecting the alimentary canal, where sugar in the urine is not found among the etiological factors.

I am, very truly, J. W. CARHART, M.D. Lampasas, Texas.

#### THE MECHANICAL TREATMENT OF THE VOMITING OF PREGNANCY.

TO THE EDITOR OF THE JOURNAL:

Dear Sir :- In Dr. Joseph Taber Johnson's paper, Columbia, and published in THE JOURNAL of March test the urine for sugar when first undertaking the 13, he says, on page 288: "In the London Lancet, (who now resides in Pittsburgh, Pa.), published a gave to the defendant certain sums of money, and paper on 'Vomiting of Pregnancy,' and advocated the evidence tended to show that previous to and at in certain cases the local application of the nitrate of the time of the gift the intestate was in a feeble mensilver to the os uteri as a cure. This mode of treat-tal condition and of advanced age. The defendant ment could not have originated with Dr. Jones, as was the physician, friend, adviser, and fiducial agent Dr. Marion Sims reported a case a number of years of the intestate, managed her affairs, and had conprior to Jones's paper "in which he cured a noble siderable influence over her. He was not a relative lady of Paris who had been given over to die by a of the intestate. Upon this state of facts it was held number of eminent physicians, who had religious that the evidence, if believed by the jury, would jusscruples against the induction of abortion. Sims re-tify a finding that the defendant in some form solicitports that from the first application the relief was ed the gift and used undue influence to obtain it; marked, and in a few days she was completely cured. and that undue influence may be inferred from the The recovery was heralded as little less than a mir- nature of a transaction alone. acle.'

per mentioned, else he would not have fallen into an accept gifts from their patients, assume the burden error. If Dr. Johnson will refer to a number of the of showing affirmatively the entire fairness of the Lancet, of February, 1878, containing my paper, or transaction and that no undue influence has been to the American reprint of the Lancet, May, 1878, used. he will find what Dr. Sims wrote upon the subject in his notes of a case appended to my paper. His preliminary remarks to, and the closing paragraph of

his notes, I will quote in full:

"Notes of a Case by Marion Sims .- I had the good fortune to meet Dr. Jones, of Chicago, last June (1877), when he incidentally related to me his experience in the treatment of the vomiting of pregnancy. I thought the matter of so much importance that I ingly he sent me the foregoing paper, which I re- Ohio. ceived just as I was leaving home, and not having time to arrange for its publication then, I now send it to of the State of Ohio, That the Governor, with the ad-The Lancet. I am not in the way of seeing much of vice and consent of the Senate, shall appoint seven this affection, but a case came under my observation persons, who (with the attorney-general, who shall be a few days ago so strongly confirmatory of Dr. Jones's ex-officio a member of said Board) shall constitute the views, that I take the liberty of appending it to his State Board of Health; provided, that the terms of paper. After relating the case he closes by saying: office of the seven first appointed shall be so arranged in Dr. Jones's treatment acts as promptly in all that the term of one shall expire on the 13th day of other cases as it did in mine, the profession will cer- December of each year, and the vacancies so created, tainly feel grateful to him for it.'

says: "I have had one such case, and was greatly of the Senate; and provided also, that appointments surprised by my perfect success in enring a patient made when the Senate is not in session, may be conwho had been confined to bed for two weeks. . . . . The efforts to vomit continued and were not relieved ately became better, and the vomiting soon stopped, and she finally gave birth to a fine healthy child." am glad to learn of Dr. Johnson's successful treatment of a case of vomiting in pregnancy by the means suggested in my paper, and would suggest that had the same treatment been employed in the case of Mrs. X., of his paper, she might have been delivered at full time of a "fine healthy child." I remain very M. O. JONES, M.D. truly,

Pittsburgh, Pa., March 27.

#### GIFTS TO DOCTORS FROM PATIENTS.

TO THE EDITOR OF THE JOURNAL:

March 10, 1886, is one of some importance to med-lect and preserve such information relating to forms

for February, 1878, Dr. M. O. Jones, of Chicago ical men. In that case the intestate before her death

There can be no doubt of the correctness of this Dr. J. Taber Johnson could not have read the pa-decision. Physicians who, under such circumstances,

M. D. EWELL, M.D., Medico-Legal Counsel.

170 Washington St., April 9, 1886.

#### STATE MEDICINE.

#### STATE BOARD OF HEALTH OF OHIO.

The following is the Bill recently passed to create begged him to write it out for publication. Accord- and establish a State Board of Health in the State of

Section 1. Be it enacted by the General Assembly as well as all vacancies occurring otherwise, shall be Dr. Johnson, after referring to Dr. Sims's case, filled by the Governor, with the advice and consent firmed at its next ensuing session.

SEC. 2. The State Board of Health shall have the until the nitrate of silver was applied. She immedi-supervision of the interests of the health and life of the citizens of the State. They shall make eareful inquiry in respect to the cause of disease, and especially the invasion or spread of any infectious or contagious, epidemic, or endemic disease, and investigate the sources of mortality, and the effects of localities, employments, conditions, ingesta habits, and surroundings on the health of the people; and shall investigate the causes of diseases occurring among the stock and domestic animals of the State, the methods of remedying the same by quarantine or otherwise, and shall gather information in respect to such matters, and kindred subjects for dissemination among the people. They shall advise officers of Government, or other State Boards, in regard to the location, Dear Sir: - The case of Woodbury vs. Woodbury, drainage, water supply, disposal of excreta, heating decided by the Supreme Court of Massachusetts and ventilating of public buildings. They shall colof the Board of Health may depend thereon, and in as they may deem necessary. the event of failure or refusal on the part of any be subject to a fine of not less than fifty dollars upon first conviction, and upon a conviction of second offense of not less than one hundred dollars.

of the State system of registration of births and and paid in the same manner as the salary of the deaths; they shall make up such forms and recom- Secretary. mend such legislation as shall be deemed necessary for the thorough registration of vital and mortuary suitable for the meetings of the Board, and office statistics throughout the State. The Secretary of the room for the Secretary. Board shall be the superintendent of such registration. The clerical duties and the safe-keeping of the bureau from and after its passage. of vital statistics thus created shall be provided by

the Secretary of State.

SEC. 4. It shall be the duty of boards of health, health authorities or officials, and of physicians in localities where there are no health authorities or The Principles and Practice of Medicine. By officials, to report to the State Board of Health, promptly upon discovery thereof, the existence of any one of the following diseases which may come under their observation, to wit: Asiatic cholera, yellow fever, small-pox, scarlet fever, diphtheria, typhus fever, and of such other contagious or infectious diseases as the State Board may from time to time specify.

SEC. 5. All amounts recovered under the penalties herein provided, shall be appropriated to a special fund for the carrying out of the object of this law.

SEC. 6. The first meeting of the Board shall be within thirty days after their appointment, and thereafter in January and June of each year, and at such other times as the Board shall deem expedient. meeting in January of each year shall be in Columbus. A majority shall constitute a quorum. They shall choose one of their number to be president, and they with diseases of the Heart, the Digestive Organs, may adopt rules and by-laws for their government. Liver, Spleen, and Kidneys, and of the Bones, Joints, subject to the provisions of this act.

perform the duties prescribed by the Board and by the matter in the second volume is by writers who this act, and who shall, upon cause, be removed by have had the opportunity of revising their own proofa majority vote; he shall receive a salary not exceed- sheets, and what they have written was only recently ing \$1600, which shall be fixed by the Board; he written, whereas much of the matter written by Dr. the members, and on presentation of his certificate Wilkes. the Auditor of State shall draw his warrant on the Treasurer for the amount.

of disease and death as may be useful in the discharge to make an annual report, through their Secretary or of the duties of said Board. It shall be the duty of otherwise, in writing, to the Governor of the State, on or all local boards of health, health authorities and offi- before the 1st day of November of each year, and such cials, officers of State institutions, police officers, report shall include so much of the proceedings of the sheriffs, constables, and all other officers and em- Board, and such information concerning vital statistics, ployés of the State, or any county, city or town such knowledge respecting diseases, and such instructhereof, to make and enforce such quarantine and tions on the subject of hygiene, as may be thought sanitary rules and regulations, as the public health useful by the Board for dissemination among the may require, in so far as the success and efficiency people, with such suggestions as to legislative action

SEC. 9. The sum of five thousand dollars (\$5000 .member of said Boards, or other officials or persons oo), or so much thereof as may be necessary, is herein this section mentioned to so act, he or they shall by appropriated to pay the salary of the Secretary, meet the contingent expenses of the office of the Secretary, and expenses of the Board, and all costs of printing, which, together, shall not exceed the sum SEC. 3. The Board of Health shall have supervision hereby appropriated; said expenses shall be certified

SEC. 10. The Adjutant-general shall provide rooms

SEC. 11. This act shall take effect and be in force

#### BOOK REVIEWS.

the late Charles Hilton Fagge, M.D., F.R.C.P., Physician to, and Lecturer on Pathology at, Guy's Hospital; Examiner in Medicine in the University of London; Senior Physician to the Evelina Hospital for Sick Children, etc. Edited by P. H. PVE-SMITH, M.D., F.R.C.S., Lecturer on Medicine at Guy's Hospital, including a Section on Cutaneous Diseases, by the Editor, Dr. PVE-SMITH; Chapters on Cardiac Diseases, by SAMUEL WILKES, M.D., F.R.S., Physician to Guy's Hospital and to the Royal Hospital for Children, London; and Complete Indexes, by Robert Carrington, M.D., Assistant Physician to Guy's Hospital, London. Vol. II, pp. XVI. 17-883. Philadelphia: P. Blakiston, Son & Co. 1886.

This, the second volume of Dr. Fagge's work, deals Blood and Skin. There is, we think, more to be said SEC. 7. They shall elect a Secretary who shall in praise of this than of the first volume. Much of shall also receive his traveling and other expenses in- Fagge was prepared some time before his death. curred in the performance of his official duties. The Many of the sections were left in an unfinished state other members of the Board shall receive five dollars at his death, and these have been completed, in an per day, and their traveling and other expenses while admirable manner, by the Editor and Dr. Wilkes, employed on husiness of the Board. The President and at times it is rather difficult to say whether we of the Board shall, quarterly, certify the amount due are reading after Dr. Fagge, Dr. Pye-Smith, or Dr.

In many respects this work is very valuable for reference. Of the treatment advised in it there is SEC. 8. It shall be the duty of the Board of Health but little to be said. In discussing the treatment of

the use of morphia subcutaneously; which reminds as an Object of Instruction. us that the work is singularly deficient in references to American authors and their work. The name of gation have been described. The translation is good. Dr. Flint does occur in the index of authors, but his For those desiring to work in this field no better residence is given as Philade phia. But there are book could be had many names of European authors missing from the list which should appear in a pretentious work. Again, in the treatment of peritonitis, while opium is recommended, nothing is said of the use of morphia, regarded by many practitioners as far preferable to opium. Surely the work of Dr. Alonzo Clark should have been thought worthy of mention in this place. We read that "for the actual paroxysm of ague but have become members of the Association by applilittle treatment is needed." On the contrary, very active treatment is often urgently necessary. reference is made to the fact that a subcutaneous injection of morphia will arrest the paroxysm, and prevent many of the disagreeable and it may be in some cases very injurious effects. Hot water bottles are all well enough after the morphia has been given, if we choose to go to an unnecessary trouble (for they ation, under the new regulation allowing members of must be removed when the morphia takes effect). Singularly enough the use of mercury in small doses in pernicious anæmia, written of by an Englishman two years ago, is not mentioned. In short, the treatment given throughout the book is unsatisfactory. This, however, is what might be expected when we see that the references to German literature are so numerous.

Of the manner in which the etiology, diagnosis and pathology of diseases have been dealt with scarcely too much can be said in praise. There are some who will take exception to the author's classification of Bright's disease, but an equal or greater number will concur in it. The tests for albumin in the urine are insufficiently given, and should surely have been corrected by the Editor. There are other and very surprising omissions by the Editor. Thus in a foot-note on cholecystotomy his last reference to Lawson Tait's work in this field is to a paper published in 1880.

It only remains to say that the work can only be recommended as one for reference; and for this it is one of great value, especially for those who teach or write.

THE METHODS OF BACTERIOLOGICAL INVESTIGATION. By Dr. FERDINAND HUEPPE, Docent in Hygiene and Bacteriology in the Chemical Laboratory of R. Fresenius, at Wiesbaden. Translated by HER-MANN M. Biggs, M. D., Instructor in the Carnegie Laboratory, etc. Illustrated. Pp. 218. New York: D. Appleton & Co. 1886.

Of the many books that have appeared in the last and Microscopic Technique. Inoculations for the Determination of the United States. of the Causal Relations of Bacteria-Growth to Decomposition and Disease. General Biological Prob- entitled to representation shall have the privilege of

uræmic convulsions, for example, nothing is said as to lems. Special Hygienic Investigation. Bacteriology

In this book all the approved methods of investi-

#### ASSOCIATION ITEMS.

#### MEMBERS BY APPLICATION AND THE AN-NUAL MEETING.

I have received several letters from gentlemen who cation under the provision recently enacted, desiring information as to their status at the annual meetings of the Association. I have also been the recipient of inquiries from others who wish to become members at the coming meeting at St. Louis through the same channel, that is by application. I will briefly say that those who are already members of the Associ-State and local societies to become such upon application endorsed by the President and Secretary of such society, are Permanent Members of the Association, and continue as such so long as they remain in good standing in their State or local society and pay their annual dues to the Association. When they attend an annual meeting, they register either as delegates from their original Society, if they have been so elected (with the right of voting), or as Permanent Members (without the right of voting).

Gentlemen who wish to become members of the Association by application at the St. Louis meeting, and who do not attend as delegates, will fill up the usual registration blanks, and present, with the five dollars for dues, a certificate signed by the President and Secretary of their State or local Society, stating that they are members, in good standing, of such Society.

As vacancies doubtless exist in some of the delegations to St. Louis in different parts of the country, possibly some of the Permanent Members and also those desirous of becoming such by application, may be able to obtain appointment as delegates to fill such vacancies.

> RICHARD J. DUNGLISON, M.D., Treasurer.

Philadelphia, April 13, 1886.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tuesday at II A.M.

The delegates shall receive their appointment year or two on this subject, this is one of the best. from permanently organized State Medical Societies The scope of the book can be learned from the fol- and such County and District Medical Societies as lowing main headings: Spontaneous Generation and are recognized by representation in their respective the Principles of Sterilization. Forms of Bacteria State Societies, and from the Medical Department of Culture Methods. the Army and Navy, and the Marine Hospital Service

Each State, County, and District Medical Society

of the Association.

nated, are earnestly requested to forward, at once, Disease;"

lists of their delegates.

forfeited their membership, the Secretaries are, by Societies.

#### SECTIONS.

past year in the branches of science included in their Blood." respective Sections. . "-By-Laws, Art. 11, Sec. 4.

Practice of Medicine, Materia, Medica and Physiology.-Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.
Obstetrics and Diseases of Women and Children.—

Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. Y. Paine, Galveston, Texas, Secretary.

Surgery and Anatomy. - Dr. Nicholas Senn, Milwaukee, Wis., Chairman; Dr. H. H. Mudd, St. Louis,

Mo., Secretary. State Medicine. - Dr. John H. Rauch, Springfield,

Ill., Chairman; Dr. F. E. Daniel, Austin, Texas, Sec'y. Ophthalmology, Otology, Laryngology.—Dr. Eugene Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton, St. Paul, Minn., Secretary.

Diseases of Children .- Dr. W. D. Haggard, Nashville, Tenn., Chairman; Dr. W. B. Lawrence, Bates-

ville, Ark., Secretary. Oral and Dental Surgery .- Dr. John S. Marshall,

Chicago, Ill., Chairman; Dr. A. E. Baldwin, Chicago, Ill., Secretary.

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements, at least one month before the meeting.—By-Laws.

Committee of Arrangements.-Dr. Le Grand Atwood, St. Louis, Missouri, Chairman.

#### AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich.—Each Section shall nominate its Chairman and Secretary—all other nomi nations to be made, as now, by the nominating Committee.

tion, to be known as the Section on Medical Jurisprudence. WM. B. ATKINSON, M.D., Permanent Secretary.

1400 Pine St., S. W. cor. Broad, Philadelphia.

Chairman of the Section on Practice, Physiology and turn letter enclosing to them the certificate. Materia Medica begs to call the attention of members, must be done to insure the certificate being sent.

sending to the Association one delegate for every ten to the unusual array of essays and reports to be preof its regular resident members, and one for every sented at the ensuing convention at St. Louis. Papers additional fraction of more than half that number: are already announced by Drs. Wm. Pepper, of Phil-Provided, however, that the number of delegates for adelphia, on "Nitrate of Silver in Catarrhal Jaunany particular State, territory, county, city or town dice;" L. Duncan Bulkley, of New York, on "The shall not exceed the ratio of one in ten of the resident Treatment of Felon without Incision;" C. Warrington physicians who may have signed the Code of Ethics Earle, of Chicago, on "Pancreatic Anæmia;" 1.. Bremer, of St. Louis, on "Essential Vertigo;" Albert Secretaries of Medical Societies, as above desig- C. Haven, of Lake Forest, Ill., on the "Etiology of Jno. B. Elliott, of New Orleans, on "Fever;" F. H. Patten, of the National Military Also, that the Permanent Secretary may be enabled Home of Dayton, Ohio, on "Pneumonia in the Old;" to erase from the roll the names of those who have Philip Zenner, of Cincinnati, on the "Diagnostic Value of the Patellar Tendon Reflex;" A. F. Pattee, special resolution, requested to send to him, annually, of Boston, on "Potassium Chloride;" O. F. Schultz, a corrected list of the membership of their respective of Mt. Vernon, Ind., on the "Use of Antipyretic Doses of Quinia in Typhoid Pneumonia;" Edward F. Wells, of Minster, O., on "Pneumonia in Pregnan-"The Chairman of the several Sections shall pre-cy;" and Frederick N. Huehn, of Rockland, Maine, pare and read, in the general sessions of the Associa-on "The Effects of Certain Physiological Principles tion, papers on the advances and discoveries of the hitherto Unnoticed in Aid of the Circulation of the

The session of May 6 will be partly devoted to a demonstration with the cabinet of the principles of "Pneumatic Differentiation," by H. F. Williams, of Brooklyn, to be followed by a general discussion of pneumatic methods to be opened by E. Fletcher Ingals, of Chicago.

Some time during the convention, date to be announced, Dr. Joseph Jones, of New Orleans, will give a brief record of sixteen years' clinical experience in the Charity Hospital of New Orleans, and Dr. S. S. Laws will read a paper on "The Life and Labors of Louis Pasteur."

The mention of the subjects to be presented with the names of the authors, must command unusual attendance and interest in the work of this Section.

> I. T. WHITTAKER, M.D., Chairman.

April 19, 1\$86.

RAILWAY CERTIFICATES TO THE ASSOCIATION MEETING-Special Notice.-To delegates and others who will attend the meeting of the American Medical Association, St. Louis, May 4 to 8: Parties located east of Buffalo, Niagara Falls, Pittsburgh and Parkersburg, will apply by mail to Secretary of Trunk Line Committee, 346 Broadway, N. Y., for certificates. Parties west of points named above and east of the Mississippi River, and north of the Ohio River, will apply to Geo. H. Daniels, Commissioner C. P. C., Chicago, Ill., for certificates. Parties south of the Ohio River, and east of the Mississippi River, will apply to M. Slaughter, Commissioner, Richmond, Va. Parties from Missouri River points, and from By Dr. I. N. Quimby, N. J. Create a new Sec- Chicago, will apply to E. P. Wilson, Arbitrator, Chicago. Points in the west and local points on the lines centering in St. Louis, will be arranged for, by agent at starting point or upon arrival here.

Delegates in making application to the above named persons for a certificate, must not forget to THE SECTION ON PRACTICAL MEDICINE. - The enclose a two cent stamp to pay postage on the reAny delegate who fails, after making every effort, to get a certificate in due form, will take a receipt from the ticket agent at the point from which he starts, for amount of full fare paid by him, coming to the meetpay your fare only to it, and then pay your full fare said meeting: from that point, securing your certificate or receipt as above directed. State, County or City Societies and Towns. can apply for the number of certificates they may wish, and have the number wanted sent in one envelope instead of applying individually.

road, from Philadelphia via Penn. Central and B. & O.

members of any medical societies, who may see the their societies, and try to get a notice of same in Essays.) their city or county newspaper.

R. M. JORDAN, M.D., Chairman Transportation Committee. St Louis, Mo.

RAILWAY FACILITIES TO THE ASSOCIATION MEET-ING.—The regular through trains of the Illinois Central Railroad from Chicago to St. Louis will afford excellent accommodations for delegates who wish to attend the meeting of the American Medical Association at St. Louis the first week in May. night express, with Pullman sleeping-cars, leaves Chicago at 8:30 P.M., and arrives in St. Louis at 7 The rates are \$7.50 round-trip.

The rates on the Baltimore and Ohio Railway for those coming from the East and South-east are full fare coming and one-third fare returning.

The Illinois Central, Chicago and Alton, and the Wabash Railways have agreed to fix the rates from the Association do not imply their acceptance by the Chicago to the meeting of the Association, for mem-| Committee, merit alone determining that question. bers, at \$7.50 round-trip.

committee, charged with the erection of a monument in the city of Washington, to Dr. Benjamin Rush, by the members of the profession of Medicine at 4 o'clock P.M., in the large parlor of the Lindell House, St. Louis, Mo., which will be the headquarters of the committee during the session of the Association. Albert L. Gihon, M.D.,

George H. Roné, M.D., Secy. Chairman.

RAILROAD FARES .- The Boston & Albany Railroad will, upon application at their office, 232 Washington St., Boston, sell to delegates and their families tickets to St. Louis and return for one and onethird fares for round trip. A parlor car, to run through from Boston to St. Louis, will be attached to the train leaving Boston at 3 P.M., May 1st.

#### MISCELLANEOUS.

AMERICAN PUBLIC HEALTH ASSOCIATION.—The ing; and in this receipt be particular to have named Fourteenth Annual Meeting of the American Pubthe form and number of ticket, and the road over lic Health Association will be held at Toronto, Ont., which he will come. If not directly on one of the October 5-8, 1886. The Executive Committee have lines entering into this arrangement of reduced rates, selected the following topics for consideration at

1. The Disposal of the Refuse Matters of Cities

2. The condition of stored Water-supplies, and

their relation to the Public Health.

3. The Best Methods and the Apparatus Necessary Round trip tickets from Chicago, Ill., also from for the Teaching of Hygiene in the Public Schools, New York (339 Broadway), Richmond, Va., and as well as the Means for Securing Uniformity in such Washington City, D. C., by Chesapeake & Ohio Rail-Instruction.

4. Recent Sanitary Experiences in connection with Members of the American Medical Association, or the Exclusion and Suppression of Epidemic Disease. 5. The Sanitary Conditions and Necessities of above, will please report it to individual members, or School-houses and School-life. (See Lomb Prize

6. The Preventable Causes of Disease, Injury, and Death in American Manufactories and Workshops, and the best Means and Appliances for Preventing And avoiding them. (See Lomb Prize Essays.)

7. Plans for Dwelling-houses. (See Lomb Prize

Essays.)

All persons who propose to present papers at the next meeting of the Association will be governed by the following order, enacted by the Executive Committee at Washington, D. C., Dec. 7, 1885: "That all papers hereafter presented to the Association must be either printed, type-written, or in a plain handwriting, and be in the hands of the Secretary at least twenty days prior to the annual meeting." This order will be strictly enforced, and no paper will be read at the said meeting that has not been received, examined, and approved by the Executive Committee. Invitations extended to individuals to prepare papers for Papers that have been published will not be received.

The Local Committee of Arrangements at Toronto, RUSH MONUMENT COMMITTEE. - The standing | Ont., have already actively begun the work essential to a large and successful meeting. In addition to the usual work incident to such an undertaking, they will extend invitations to foreign sanitarians, and secure in the United States, will meet on Monday, May 3d, such transportation facilities as will probably ensure a good representation from abroad. Communications regarding matters of transportation or of a local character should be addressed to Peter H. Bryce, M.D., Chairman Local Committee of Arrangements, Toronto, Ont. The cooperation of all persons interested in the public health, or in any subject allied to sanitary science, is respectfully solicited. A circular giving full and concise information regarding local matters, programme, transportation, etc., will be issued in due season before the meeting.

> The Lomb Prize Essays .- Mr. Henry Lomb, of Rochester, N. Y., who is already well known as a public benefactor through the prizes which he gave last year for the best essays on certain sanitary subject, offers for the present year the sum of \$1750

to be awarded as prizes on the following subjects, as feet to the inch, except those representing details, per conditions mentioned elsewhere:

School-Houses and School-Life. One Prize, \$500.

The object of the essays must be to furnish the

may be all the details allied to the subject.

Appleton, Wis.

Death in American Manufactories and Workshops, and the best Means and Appliances for Preventing

and Avoiding them. One prize, \$500.

the American mechanic are to be especially conbe regarded of more value by the judges than a super- and drains as will be within the walls. ficial review of the whole field. Original investigations will weigh much in awarding the prizes, while statement of the whole question of the best arrangecompilations from existing literature or foreign statistics will not find favor with the Committee of Awards.

Committee of Award .- Dr. Granville P. Conn, President of State Board of Health, Concord, N. H.; pear upon the drawings, or upon anything accom-Dr. John Fallon, Member State Board of Health, Lunacy, and Charity, Lawrence, Mass.; Dr. Stephen Smith, New York City; Crosby Gray, Esq., Pitts-burgh, Penn.; Dr. C. W. Chancellor, Secretary State Board of Health, Baltimore, Md.

3. P.ans for Dwelling-Houses:

(a). A plan for a dwelling-house not to exceed in cost, exclusive of cellar, \$800. Prizes: First, \$200; second, \$100; third, \$50; fourth, \$25.

\$200; second, \$100; third, \$50; fourth, \$25.

Accommodations to be provided for families con-

sisting of five persons.

J.; Dr. J. H. Raymond, Brooklyn, N. Y.; Prof. same motto upon the outside of the envelope. Charles N. Hewitt, Secretary State Board of Health, Red Wing, Minn.

Specifications Regarding Plans for Dwellingrepresented by the following drawings:

1. A plan of the principal story.

2. A plan of second story (if present).

3. A longitudinal section.

of the design. The drawings are to be made all upon Public Health Association. one sheet of paper, and comprised within a rectangle of 171/2 by 24 inches.

They are to be made at a uniform scale of four upon which they are to pass judgment.

and are to be made by lines, in India ink, without 1. The Sanitary Conditions and Necessities of color or washes. Shading, if any, is to be obtained by India ink lines.

The drawings are to be accompanied by a concise, most complete paper possible, embracing as far as clear description of the arrangements and materials of construction, together with a detailed estimate of Committee of Award .- Dr. E. M. Moore, President the cost of construction, which is to comprise Ma-State Board of Health, Rochester, N. Y.; Medical sonry work, Plastering, Iron work, Carpenter work, Director Albert L. Gihon, U. S. Navy; Major Charles Roofing and Painting, Plumbing work, Sanitary ap-Smart, Surgeon U. S. A.; Prof. C. A. Lindsley, pointments, and other required work and materials, Secretary State Board of Health, New Haven, Ct.; and contingent expenses required to render the build-Dr. J. T. Reeve, Secretary State Board of Health, ing ready for occupancy. The estimate to be given for each of the kinds of work above named, sep-2. The Preventable Causes of Disease, Injury, and arately. The estimates to be made in good faith, from trustworthy data, and to be based upon the present market prices of material and labor in Albany, N. Y. The prices made use of to be given in full Under this head, the conditions and necessities of detail to enable comparisons to be made for different localities, plumbing to be based upon the supposed sidered, and the thorough consideration of a class will use of pump, and estimate to cover so much of pipes

Object of this competition is to secure a general ments, both in economical and sanitary points of view,

for housing the working classes.

The name of the author of the design is not to ap-

panying them.

Each drawing is to be marked with a selected word or sentence, used as a motto to distinguish the design from others. This motto, written on paper, together with the author's name, is to be enclosed within a sealed envelope, and this sealed envelope is to be enclosed within a second envelope, sealed and endorsed, with the word or motto, only, placed upon the drawing.

Each design, together with the description and es-(b). A plan for a dwelling house not to exceed in timate, is to be enclosed within a tube of metal or cost, including the cellar, \$1600. Prizes: First, very stout paper—the tube not less than two inches diameter—and sealed and forwarded to the Secretary.

Conditions: All essays and plans for the above prizes must be in the hands of the Secretary, Dr. Committee of Award.—Major John S. Billings, Irving A. Watson, Concord, N. H., on or before LL.D., U. S. A., Washington, D. C.; Col. George Aug. 15, 1886. Each essay must bear a motto, and E. Waring, Jr., C. E., Newport, R. I.; Dr. E. M. have accompanying it a securely sealed envelope Hunt, Secretary State Board of Health, Trenton, N. containing the author's name and address, with the

After the prize essays and plans have been determined upon, the envelopes bearing the mottos corresponding to the prize essays or plans will be opened, Houses.—The features which will have especial weight and the awards made to the persons whose names are with the committee of award will be: 1. Ventilation. found within them. The remaining envelopes, unless 2. Drainage and other sanitary appointments. 3. the corresponding essays or plans are reclaimed by Convenience of arrangements. Each design to be authors or their representatives within thirty days after publication of the awards, will be destroyed unopened by the Secretary.

The Committees of Award are empowered to reject all papers and plans, if in their opinion none are 4. A front elevation and drawings of such details worthy of a prize. The essays and plans awarded as may be required to illustrate any peculiar features the prizes are to become the property of the American

> None of the members of the Committees of Award will be allowed to compete for a prize on the subject

The awards will be announced the first week in October, 1886, at the annual meeting of the American LUMBIA. —At a stated meeting of the Medical Associa-Public Health Association.

sentially American in their character and application, and this will be considered by the judges as an especial merit.

Competition is open to authors of any nationality, but all the papers must be in the English language.

While the privileges of competing for the Lomb Prizes is open to all persons, it should be remembered quired to win.

Per order Executive Committee.

IRVING A. WATSON, Secretary.

methods looking towards an advancement in the reading papers, notes or communications, or by exsanitary condition of the Commonwealth, the preven-tion of sickness and avoidable death, and the im-receive the title of any proposed paper as early as provement of the conditions of living, will be held convenient. in Philadelphia, under the auspices of the State Board of Health, on Wednesday, Thursday, and Friday,

May 12, 13, and 14, 1886. The following will be among the subjects that will be discussed by prominent Sanitarians: 1. The Sanitary Needs of School Buildings and Grounds. 2. The Water Supply of Towns and Cities. 3. The Water Supply of Philadelphia. 4. The Disposal of Slops, Garbage, Refuse, etc. 5. The Prevention of Communicable Diseases. 6. The Influence of Clothing on Health. 7. Ventilation. 8. The Drainage and Sewerage of Cities and Town. 9. The Drainage and Sewerage of Philadelphia. 10. The influence of Diet on Health. 11. The Relations of Christianity Capt. Ino. Van R. Hoff, Asst. Surgeon, leave of absence extended for eleven months, with permission to leave the United States. (S. O. 85, A. G. O., April 12, 1886.) Management. 14. The Necessities of Physical Ed. Capt. Richard Barnett, Asst. Surgeon, granted leave of absence program in Country for two months. (S. O. 16, Div. Atlantic, April 12, 1886.) ucation. 15. Drainage and Sewerage in Country Districts. 16. Sanitary Science in Villages. Municipal Sanitation. 18. Artificial Feeding of Infants. 19. Condensed Milk. 20. Various Artificial Baby Foods. 21. The Inheritance of Disease. 22. Hygiene of the Home. 23. Sanitary Plumbing and Drainage. 24. Tests for Impurities in Water: The Use of Filters. 25. Germicides. 26. Vaccination. 27. The Hygiene of Old Age. 28. Cholera. 29. City versus Country Life, from a hygienic point of

The public are cordially invited to take part in and help to make a success of this Convention. A circular of details will be issued at a later date.

JOSEPH F. EDWARDS, M.D., Chairman Committee of Arrangements. 224 S. 16th St., Philadelphia, Pa.

THE ASSOCIATION OF AMERICAN MEDICAL EDITORS will meet in St. Louis on Monday evening, May 3, time and place to be announced. There will be a banquet, and each member is expected to contribute to the expenses.

MEDICAL ASSOCIATION OF THE DISTRICT OF COtion, District of Columbia, held on the 6th inst., the It is intended that the above essays shall be es-following were elected officers for the ensuing year:

President.—Dr. J. M. Toner. First Vice-President .- Dr. J. W. Bulkley. Second Vice-President .- Dr. Geo. Byrd Harrison.

Secretary.—Dr. Lachlan Tyler. Treasurer — Dr. S. S. Adams.

GEORGE N. Powers, M.D., has been appointed that the highest standard of excellence will be re- Professor of Ophthalmology and Otology in the Medical Department of the University of California, to fill the vacancy occasioned by the recent death of Professor A. M. Wilder, at San Francisco.

NEW YORK STATE MEDICAL ASSOCIATION—FIFTH NATIONAL SANITARY CONVENTION.—A Sanitary DISTRICT BRANCH.—The fourth special meeting of Convention, the object of which will be to afford an the Fifth District Branch will be held in Kingston, opportunity for an expression of opinion on matters on Tuesday, June 15, 1886. All Fellows are correlating to the public health and the discussion of dially invited to contribute to the meeting, either by E. H. SQUIBB, M.D. Sec'r. P. O. Box 94, Brooklyn, N. Y.

> Hæmorrhage after Uvulotomy.—Dr. E. Car-ROLL MORGAN, 918 E. St., N. W., Washington, D.C., wishes to collect recorded and unrecorded cases of this accident, in order to publish a monograph on the subject.

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SFRVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM APRIL 10, 1886, TO APRIL 16, 1886.

Capt. J. H. Patzki, Asst. Surgeon, relieved from duty at Jackson Bks., La., and ordered for duty as Post Surgeon at Mt. Vernon Bks., Ala. (S. O. 75, Dept. East. April 12, 1886.)

Capt. H. P. Birmingham, Asst. Surgeon (Camp Grant, New York City), temporarily assigned to duty at Ft. Columbus, New York Harbor. (S. O. 72, Dept. East, April 8, 1886.)

First Lieut. Philip G. Wales, Asst. Surgeon, granted leave of absence for two months. (S. O. 85, A. G. O., April 12, 1886.)

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S. MARINE HOS-PITAL SERVICE FOR THE THREE WEEKS ENDED

Wyman, Walter, Surgeon, to represent the Service at the meeting of the American Medical Association, at St. Louis, Mo. April 12, 1886.

Sawtelle, H. W., Surgeon, detailed as chairman of Board for physical examination of officers of the Revenue Marine Service. April 15, 1886.

Urquhart, F. M., Passed Asst. Surgeon, relieved from duty at Norfolk, Va., May 1, 1886; to assume charge of Cape Charles Quarantine. April 16, 1886.

Yemans, II. W., Passed Asst. Surgeon, detailed as recorder of Board for physical examination of officers of the Revenue Marine Service. April 15, 1886.

Heath, F. C., Asst. Surgeon, appointed an Asst. Surgeon. April 15, 1886. Assigned to duty at Chicago, Ill., April 16, 1886.

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS

PUBLISHED WEEKLY.

Vol. VI.

CHICAGO, MAY 1, 1886.

No. 18.

#### ORIGINAL LECTURES.

#### THE DEMAND FOR MEDICALLY-EDUCATED WOMEN

The Doctorate Address delivered at the Commencement Exercises of the Woman's Medical College of Chicago, April 6, 1886.

BY D. W. GRAHAM, M.D.,

PROPESSOR OF SURGERY IN THE WOMAN'S MEDICAL COLLEGE, OF CHICAGO, ILL.

Two years ago, at the graduating exercises of this they ignorantly slay. college, our worthy President, Dr. Byford, made an — It is often claimed

These considerations were made from what we restoration of health. may call the subjective standpoint—having reference

Is there in it a demand for her services, and what are lic press. the promises and opportunities for work and usefulness? Medicine means very much more in these fession are almost the only members of society who latter days than healing the sick and attending to have an active and an abiding interest in preventive their immediate wants. It had its origin in the simmediate. They almost stand alone as contributors ple desire to relieve human suffering, and for a long to the sum of knowledge which makes up sanitary time was synonymous with the "healing art." But science. it has grown in scope and power with the ages, and it is especially within the last few decades that med-workers in those organizations whose objects are to ical science has taken on new duties and new life, teach and to preach hygiene and health to the comuntil it stands to-day for the physical and moral per-munity, or to prepare the way for and urge correct fection of the human race. A recent writer (Dr. A. sanitary legislation. It is difficult for the public to existence of man; his place in nature; his origin, been accomplished for humanity in this direction. development and growth; his preservation and continuance,—the prevention and cure of disease being have been suppressed, and their ravages mitigated. but a part thereof.

Another writer (Sir Henry Acland) says: What ever be the duty of individuals, medical art and sci ence collectively now aim as a whole, 1st. At the preservation of health. 2d. At the averting of dis ease from individuals and from nations. 3d. At rearing healthy progeny for the family and the State by probing the laws of inheritance, and 4th. Procuring legislation effectual to these ends. It claims, therefore. a voice in moral education as well as physical training; it holds a duty in relation to the diminution of vice for the sake not only of its self-destroying victims, but more for the sake of the innocents whom

It is often claimed for the medical profession, both address in which he entered a strong and convincing by its own members and others, that its chief glory plea for the fitness and capacity of women as prac- is its charity. But its greater glory is the record of titioners of medicine. He also pointed out how the its effort and its interest in the prevention of disease. changing conditions of our social fabric are constant. The brightest page of its history, and that which ly increasing the number of women who may and covers a multitude of its sins, is that in which it reought, for their own sakes to enter the medical pro- cognizes that the preservation of human health is a privilege and an obligation no less sacred than the

The medical profession, as a constituent class of largely to the interests and qualifications of individ- the community, has no more interest in preventing uals as candidates, or as possible candidates, for the or mitigating the ravages of epidemics, or the spread honors and responsibilities of medical practitioners. of communicable diseases, or in analyzing and study-But there is an objective side to the question of ing the conditions of our individual and associated the medical education of women-having reference environment to discover which promote health and to the objects and aims of medical science and its which give rise to disease, than has any other class. place and power as one of the factors of civilized And as practicing physicians, all their efforts in this society. Accepting it, then, as proved by argument direction would be suicidal from a business point of and demonstrated by experience that women may view, and in every way detrimental to their own best and ought to enter the domain of medicine, we may interests, if they are to be measured by the standard ask what is the nature and scope of that domain? of the average judgment of the public and the pub-

Yet we find that the members of the medical pro-

They are always the leaders and the most zealous I. Gibon) says: It embraces all that relates to the realize or to estimate rightly the value of what has

It is possible to eradicate such a disease as small-pox

child were treated in accordance with the established sist upon and demand better laws, better managefacts of vaccination.

The list of preventible disease is constantly in- sane. creasing and the means and methods of preventing them are being better understood. We know better criminal class which no one is so well qualified to than ever before, as individuals what to do, where to study and solve as the medically-educated man or go and how to act, that we may avoid disease and woman. It is questionable whether the prevailing preserve health.

It is along this line that medical science is yet to win more than now, but even now, the spirit of our its best victories. New facts are to be discovered, criminal laws and the method of enforcing their pennew principles established, new problems solved and alties is largely the spirit of retaliation. It is a well-new methods elaborated. But in order to make these recognized fact that some individuals are born with facts and discoveries available and effective, a knowl- moral defects as others are born with physical deedge of them must be diffused among the people and fects. The actions of a man who is born blind or is if the sanitary science of the future is to demand of color blind are judged of differently from those of the law maker such laws as will give the people the other people. Should a man who has analagous three pure requisites—pure air, pure water, and pure congenital moral defects be judged as other men food-to quote a prominent sanitary writer, then that are judged? In China, when a man has committed law maker must be one who knows what constitutes a capital crime, a minute inquiry is first made into purity and something of the best methods of secur- his physical condition, his temperament, his mental ing it.

in relation to the defective and the helpless classes most inconsiderable antecedents of the members of society. Together these form a considerable per- of his family, and is even carried back to his ancescentage of the population. One of the marks of try. While the Japanese laws, it is said, include the civilization, and, at the same time an index of the parents of the criminal in the punishment (Ribot, degree thereof, is the care bestowed on these unfortu"Heredity").
nate classes. In barbarous tribes they are either Then there killed outright or conveniently allowed to die, in the to the education and environments of the plastic same way, and for the same reason that the female period of youth, just as there are acquired physical children are disposed of-they eat but cannot fight, deformities. For instance, take the foot of the and hence are an incumbrance to be got rid of. The the Chinese woman, which has been arrested in its deaf and dumb, the blind, and the feeble-minded growth and distorted into an unrecognizable mass have claims and rights which civilized communities by the systematic training applied to it from recognize. They have not only a right to live, but youth up. We do not expect such a person to walk a right to a higher life than simple animal existence, with the same ease and grace and equilibrium as one belongs to medical science to discover the underly-torted to have the same rectitude of purpose and ing physiological and pathological conditions of these conduct as one whose faculties have been trained defects, and to point out and apply the most effect into full and normal development. philanthropic work.

full measure of its duty towards these unfortunates. bility. In many communities they are treated less humanely

entirely from the earth if every man, woman and by virtue of their knowledge and their calling, to inment, and better public provision for the chronic in-

Again, there are great problems concerning the methods of dealing with criminals do not cause But the work in this broad field has only just begun, more crime than they prevent. Formerly much complexion, his prior acts; nor does the investiga-Medical science has both a duty and a privilege tion stop at the individual—it is concerned with the

Then there are moral defects and deformities due They have a right to be made useful-a right to that whose feet have normal power and development. kind of treatment and training which will compen- Why, then, should we expect one whose mental and sate as far as may be for their natural defects. It moral faculties have been similarly stunted and dis-

tual methods of securing the desired results. It is When facts like these are fully developed and to the honor and the credit of the medical profes-recognized, our management of criminals will be sion that they have ever been foremost in this truly more discriminating, more rational, and more productive of results, and while not holding the criminal Then, of what are called the helpless classes, take, guiltless of his crime, our laws will take cognizance for example, the incurable insane—a large and an of the fact that there is guilt somewhere outside of increasing class. Society does not come up to the the individual himself, and a corresponding responsi-

Then there are the facts and the laws of heredity, and with less consideration than if they were crimilas yet almost an unknown quantity. What are they nals. Right here, in our own city, enough facts and what is their import? How and to what extent could be collected in twenty-four hours by anyone may a knowledge of them be made available for the which, if plainly stated, would be a revelation to benefit of the race or the individual? What do we nine-tenths of our citizens, and a cause of shame to get by inheritance from our ancestors in physical us all. And if we consider the facts as they exist, characteristics, in intellectual traits, in moral ten-especially in relation to the pauper insane, through-dencies. It is an established fact, as an authority out the whole country, it would be a dark page of (Ribot) says, that heredity tends to transmit to the our boasted civilization. The medical profession descendants the whole nature of their parents, as are largely responsible for this state of things, know- well every physical, mental, and moral deterioraing their duty and doing it not. They have a right, tion, as every physical, mental and moral amelioration. But we know little about the laws of inherit- that reminds one of this criticism, so out of proporance, and still less about how they may be utilized. tion are the simply ornamental accomplishments. These are great questions, and have an important But it will continue to be as heretofore, that the great bearing on all that pertains to human progress, majority of those who study medicine will expect to They especially concern the physician in his efforts practice medicine. to prevent and control disease, and their study and solution are peculiarly within the domain of medi- condition of the medical profession. It is a favoritecine.

all matters of education—not only to advise and whether these complaints are just and in accordance supervise, but to dictate. Here, if anywhere, medi- with the facts when we look at the question in comcine should exercise the right of eminent domain. parison with other professions and occupations where Education and heredity are correlative factors. To special and superior knowledge and training are regether they determine whether the individual shall quired. They are all crowded, and probably in about be good or bad-a useful or dangerous member of the same degree. Inquiry will show no vacant place, society. No educational theory is correct unless no encouragement for the new recruit, the supply these facts are duly recognized.

ing has anywhere received proper practical recognitrades and professions. The young woman, as the tion as one of the elements of a complete education. I young man, looking for an occupation, who accepts More generally it is practically ignored, or assigned the surface indications of supply and demand, will a very subordinate place in our educational institu- never find a place that is not preëmpted and occutions. More especially has this feature been nepied, and may just as well surrender before beginning glected in the education of our girls. But there is the battle. It is often stated that the ratio of pracevidence of a growing interest in this direction. An ticing physicians to the population is steadily increas-association of National character has for one of its ing, and that there are more physicians to a given chief objects the promotion of the physical educa- number of people in this country than any other. tion of women. In a recent report they realize that Both of these statements are probably correct, but the physical status of American women of the edu-they prove nothing against the claim I am now cated class is painfully low, and urge measures making, viz.: that the medical profession is relatively

many others of a similar nature, there is a positive standard is misleading. There are other factors that demand for the services of the medically-educated enter into the question which it is not necessary to woman. Here are opportunities enough and scope point out here.

enough for all shades of tastes and all degrees of And while it would probably be difficult to find any talent. Women are peculiarly adapted for much of community in this country where there is an apparent this kind of work. The thousands of women of our need of more physicians, and while it is true, as is land without occupation, with physical and mental claimed, that the standard of requirement for admiscapacity for a long life of usefulness, with noble and sion to the ranks of the profession is not as high as philanthropic aspirations, will find in these fields the present conditions of things demand, yet when abundant work which will yield the most beneficent all is said and everything admitted, it still remains a

those who may devote themselves to these lines of man or woman of average intellectual capacity and work and study, but more or less knowledge of med-good training as can be found anywhere, both for ical science and its fruits is necessary for all. But earning a good living and for a life of the highest there is no better preparation for and no better stim- usefulness. There is room and even demand for the ulus to pursue such an occupation than a thorough thoroughly earnest, well educated medical woman in medical education. Even as a means of individual almost all parts of our country. But it is outside of our education the study of medicine, I believe, ought to own country that the American medical woman will have a place for the women who expect to spend find the great opportunities and an unlimited demand their lives in the relations of home and family excluss for her services as a practitioner of medicine. sively. With some modifications a three years' study of medicine would be of more benefit to any woman of people-fully one-half of the population of the in the way of mental discipline, combined with ac-quisition of useful knowledge, than a three years' tries has been portrayed many times. The story of course of study in most of our popular seminaries. their physical, mental and moral condition sounds to The purely ornamental in the education of women, us like a fable. A writer says: The women of I think all will agree, has been overdone. A young architect once presented a specimen of his work to his senior for criticism. The criticism was the inhave the very best opportunities for observation junction: "Ornament construction instead of con- cannot appreciate their real condition. If we except structing ornament." There is much in refined society

We hear much in these days about the overcrowded theme of discourse both in public and private and on Medical science also claims the right to speak in many occasions. It may be fairly doubted, however, being already greater than the demand in all of them. It is only within recent years that physical train- Close and never-failing competition is the rule in all against this dangerous deterioration of physique. not more crowded than other lines of desirable and In all these directions I have pointed out, and in useful occupations. Moreover, the purely numerical

fact that to-day the practice of medicine in this coun-A medical education is not a pre-requisite for all try offers as good prospects and opportunities to the

The oriental countries contain about Soo millions

<sup>1</sup> Houghton Women of the Orient

Japan, it may be truthfully said that throughout the representatives of the profession. General Sher-Orient a girl is regarded by the entire household both man in his memoirs makes the observation that the as an intrusion and a calamity, and the prevailing rear of an army in action is not the place from which estimate of the female sex is most degrading and to judge of success at the front. On approaching brutish. In Mohammedan countries at least, a man from the rear one would conclude that defeat and makes a profound apology whenever he deems it disaster had overtaken the whole army, while at the necessary to speak to another man of either a dog, a front there would be nothing but victory hog, a donkey or a woman. The Japanese, although So it is in the medical profession. The truly repmore liberal in their treatment of woman than other resentative members, those who work and win the Eastern nations, habitually look upon her as a portion victories for medical science and humanity, are like of creation whose only use is to perpetuate her spetches and minister to man's pleasure and comfort.

Practically she is recognized only as a slave, and and rejoicing in their triumphs; and also, like the whether in the palace of a prince or the hut of a beg-fighting part of the army, they are mostly out of sight gar she is systematically condemned to moral and of the public eye and out of hearing of the public physical degradation, In China, also, the idea that ear. But in the rear are the laggards, the croakers, woman exists only for the convenience of man, and the cowards, the spoil-seekers and the prophets of scarcely shares the same nature, is thoroughly fixed evil. These seek and obtain the public ear; and in the national mind; while with the Hindoos, both hence it is that the public so often fail to discrimby sacred law and custom, she is consigned to a delinate between, for instance, the spoil-seekers or gradation which is without a parallel in the history of the croakers and the honest and faithful workers. our race. In every particular the Eastern idea of Hence it is, also, that so often in our current litwoman is debasing and unworthy.

eral way by all Christendom, yet I think there are spirit and status of the rear of the medical army are very few who actually realize that this is not an exag-gerated picture of the condition of more than half The most comprehensive advice I can give you the women of the whole world. The science of med-to-day as new recruits is to face to the front and icine as we know it has no existence among the orien-tal people. They have no knowledge of the structure with the faithful veterans. Thus you will never be or functions of the human body nor of the true nature troubled about individual duty, and need give yourof disease. "Charms, superstitious rites, barbarous selves no concern about the rewards and honors, for treatment, vile medicine and foolish religious cere- these will come spontaneously. monies are the unavoidable accessories of the sick room, and frequently induce a fatal termination which profession as you do to day intrusts you with a share than the supply. Experience shows that the direct of the Netherland provinces, a free woman who interdegraded sisters. A great responsibility is upon the band dead; choosing the other she adopted the symwomen of America. sibilities are infinite.

Speaking now more directly to the graduating class, I extend to you in the name of the Faculty a cordial welcome to the ranks of the medical profession. You have passed the arbitrary line which technically separates the student from the physician. You will realize that in one sense this line is only an imaginary one, such as astronomers use for the purposes of reckoning. But still to all who pass that line, as you

erature and the public press the medical character While this state of things is well known in a gen- is a weakling or a medical monstrosity, and that the

Accepting the badge of admission to the medical nature, if left to herself, would have averted." In all of responsibility for the honor and good name of the except the few localities where European civilization profession, and implies a tacit acceptance by you of has penetrated they are practically without medical this trust. The temptations for the physician to viotreatment. And the women are deprived of even late this trust, to turn aside into devious ways for these slight advantages owing to the seclusion which selfish ends, to subordinate the professional to the the inflexible religious and social customs impose, trade spirit, and to make commerce of the sacred So that educated female physicians can find in this relation of physician and patient, are many, and not vast region a special field for their services, where a few find them irresistible. The condition and fate there is no competition and the demand is greater of such are somewhat as when centuries ago, in one benefits to these women of rational medical treatment married with a slave condemned herself and offspring are incalculable. But it is as pioneers and forerun- to perpetual bondage and disgrace. But she had an ners of a Christian civilization that these medical alternative. She was girt about with a sword and a women are to carry the greatest blessings to their distaff. Choosing the one she was to strike her hus-The opportunities and the pos- bol of slavery and became a chattel for life.

#### OVARIAN EPILEPSY: FOUR CASES.

A Clinical Lecture delivered in the Gynecological Clinic of the Medical College of Ohio,

BY C. D. PALMER, M.D.,

PROFESSOR OF GYNECOLOGY IN THE COLLEGE

The first case to-day, gentlemen, is that of Mrs. do to-day, there come new privileges and new duties. Mary C., aged 29 years. She has been married nine If you would enjoy the one you must fulfil the years, and has had two children, the youngest being other. If you would eatch the spirit of duty you now four years old. The patient is a bleacher in a must align yourself with the true workers and laundry, in which she has worked for eighteen months.

while at work.

ent position. The menstrual flow occurs once a mobile nervous system.

curring more frequently at the menstrual periods, and the usual manner, with candy, nuts, etc., and conaggravated by the patient's occupation. She has tracted a cold. On the next day she had an attack, been under treatment for three months, on pil. po- the first for sixteen weeks. She has been under treatdophyllin for the constipated condition, and bromide ment now for five months and a half, on the bromide of potassium for the epilepsy. Under this treatment of potassium, and has had no attack since the one there has been marked improvement.

a condition of slight leucorrhoea, and she complains treatment. of backache and constipation. She has had periodical attacks of unconsciousness and convulsions at parentage, unmarried, 27 years old. She entered the the menstrual period for eight years, especially dur- Clinic in the spring of 1883, and stated that for nine ing the past two years. Occasionally, say each third years previously, that is, since the first appearance of time, the attacks intermit; but sometimes she has the menses, she has suffered from epileptiform atattacks in the intervals.

slightly retroverted, and congested. There is no sciousness. Prodromata were always present, in the laceration of the cervix.

barb for the condition of the bowels, she has im- and she was never regular in menstruating until the proved in general health.

who was admitted to the Hospital on September 1, teen months. She has not menstruated, but it is four days, though there was some dysmenorrhea. probable that ovulation has taken place. The attacks Physical examination showed nothing markedly abcome on regularly once every month. You can see normal, except tenderness in the posterior lip and that she is small and but illy developed. Like the left ovarian region. other patients shown you to-day, she is very consti-

put on bromide of potassium, gr. xv three times a times a day of a solution of bromide of potassium day, and pil. podophyllin. It is necessary that she (5ss—water 3ij). Tincture of iodine was applied have good food, exercise, moral and mental training, locally in the ovarian region, and later the emplasand vegetable and chalybeate tonics. We give bro-trum cantharidis over the ovaries a few days before mide of potassium to this class of patients because the time for menstruation. This treatment was conit has a sedative influence on the nervous system, and tinued for a considerable length of time with very on the sexual organs at the menstrual period. This marked improvement. Up to April 19, 1885, she rue, etc., a very pernicious method of treatment. times a day. We may as well try to get a girl five or six years old. In this case improvement followed almost immeto menstruate. The salient features of the case are diately on the commencement of treatment, that is,

Her occupation requires her to remain standing ably at the time of ovulation. Why does she have epilepsy? Probably she has no organic disease of She has been having fainting spells once a day, the nervous system, and if brought to view probably more severe at the menstrual epochs. These faint- no structural changes could be found. There is probing spells came on after she began work in her pres- ably some defect in the hemispheres; she has a very

month, and lasts two days. She has backache and When examined on December 7, three months after is constipated. The left ovary is prolapsed, and admission, she had had no attack for three mouths. there is slight retro-version and congestion of the Previous to this the last two attacks were two months apart, but occurred at the time of her menses. On The diagnosis in this case is epilepsy, petit mal, oc- December 25 she began to celebrate Christmas in at Christmas. This treatment will be continued for The second case is that of Mrs. A. K., a widow, a year or two, even if there be no recurrence of the aged 43, who has had one child. Her menstrual attacks, simply as a preventive measure. As shown flow is regular, lasting four or five days. It is not by her experience at Christmas, errors in diet may accompanied by pain, and is rather scant. There is render futile all the good accomplished by months of

The fourth case is that of Miss L., of American tacks. They usually occurred in the day time, sel-Physical examination shows that the uterus is low, dom at night, and were accompanied by loss of conform of headache, general nervousness, and pain in The malady was diagnosticated as menstrual epi- the left ovarian region and the left arm; all aggralepsy, and on treatment with bromide of potassium, vated by errors in diet. After their first appearance three times a day, and Hunyadi Janos water or rhu the menses ceased, but the attacks occurred monthly, year before she was admitted to the Clinic. For a The third case is that of Miss A., 15 years of age, short time, too, she had intermenstrual attacks.

On admission her general health was fairly good, 1885. She has had epileptic attacks for the past fif-the menses regular, of normal quantity, and lasting

On the diagnosis of petit mal of ovarian origin, she was put on regulated diet, with Fowler's solution On the diagnosis of ovarian epilepsy she will be for the stomach trouble, and a teaspoonful three patient should have physical employment, not severe, had had four attacks; on April 25 she had another; and should get out into the fresh air every day. We and three more by May 24. On May 31, 1884, it may say that the diagnosis in this case is favorable was noted that she had had only two attacks since for cure. It is probable that the uterus of this pa- Christmas. She attended the Clinic irregularly, but tient is as ill-developed as her body, and her menses bought the bromide by the pound and took it reguwill probably come on later. It is one of the cases larly at home. In the autumn of 1885 she began to in which mothers resort to hip baths, hellebore, savin, take gr. xxx dissolved in half a glass of water three

that the girl has had attacks every four weeks, prob- within six or seven weeks. Treatment was then sus-

that there is much local pelvic disease to produce calf & Co., of Boston, viz.: boracine. of the mind, so that it may be better developed, when or lanolin, the new basis for ointments. it is less liable to disturbances. Mental shock, moral disturbances, indigestion, worms, ovulation, etc., may disturb the nervous system sufficiently to cause these attacks. It is probable that this patient masturbates. Patients who have migraine often escape epilepsy, one attack it is a great gain for the nervous system, as every attack weakens, and increases the liability to others. Finally, for these cases the ovaries may nier ressort.

#### ORIGINAL ARTICLES.

#### BORACINE.

BY W. THORNTON PARKER, M.D.. OF NEWPORT, R. I

The earliest of medical writers knew of the antiseptic qualities of boric acid, and its healing and purifying properties have been recognized for centuries. It has been recommended for use in solution, in powder and in ointment for the treatment of tion known to me. For an injection in the puerperal wounds, burns, and sores of all kinds, and yet when state nothing could be better than a 25 per cent. the dangerous properties of carbolic acid, iodoform, solution of boracine. This can be used with safety, and the bichloride solution had been proved over and while other preparations like carbolic acid have often over again, and no satisfactory substitute discovered, proved injurious and even dangerous. In gynecology borax still remained in great obscurity. Although its it is especially useful in solution as an injection for leuvalue was known so well, yet it was not considered corrhea, vaginitis, etc. It is an excellent application worthy of rank as an antiseptic, and few believed for ulcerated cervix, spread thickly on the diseased surthat it posessed germicide properties.

antiseptics while attending the surgical clinics of Prof. the Continental hospitals opportunities were afforded for witnessing the effects of carbolic acid, salicylic acid, iodoform, bichloride solution, etc. In the hospitals of Bonn, Leipzig, Vienna, Freiburg, Tübingen, Munich, Heidelberg, Würzburg, Paris, London and Dublin, I watched the development of the antiseptic made vaginal and rectal suppositories of boracine in method for surgery which Lister had so brilliantly combination with gelatin, and pencils of the same brought forward. Each hospital had its individual for intra-uterine and other uses. These contain 25 procedure for the protection of wounds. The Charper cent. of boracine. The suppositories are of three ing Cross Hospital, London, in 1882, had developed sizes—Nos. 1, 2, 3. No. 1, the smaller, is a useful

pended and the attacks recurred. It was renewed, and since that time to the present the writer has found and the attacks became much less severe, and dimin- no preparation more satisfactory for antiseptic purished to two in a month. It does not at all follow poses than that now manufactured by Theodore Met-

this form of epilepsy. In some cases the attacks oc- Boracine is composed of boric acid, glycerine, cur only at certain menstrual periods at first, and menthyl salicylate, menthol, thymol and eucalyptol. after a few years they come on more frequently and For surgical purposes it is best prescribed in solution, with more severity, and between the menstrual pe- one part of boracine to twenty or thirty of water. riods. This often occurs in patients who are irregu- It can be used, however, from 10 per cent, to 50 per lar in menstruating. It is difficult to say just what cent. in strength as may be indicated. Under its use pathological lesions are present in these cases. Many wounds of all kinds heal as rapidly and as satisfactoof these cases occur in persons who are illy de rily as under carbolic acid dressings; but with boraveloped as regards their nervous systems. They cine there is no danger from poisoning, and the wound need improved hygienic surroundings, good food, and the surrounding tissues are not inflamed or inand evenness of life. They should not be idle, but jured. It is, in fact, entirely innocuous when applied the occupation should not be arduous. If young, to a wounded surface. For minor surgery it is useful great attention should be given to proper schooling as an ointment combined with cosmoline, vaseline,

R.	Boracine		 	 ãjss.
	Adips Lanolin		 	 ãij.
	1	Μ.	 	 ð.,,

Boracine is useful as an application in chronic and vice versa. If you can carry the patient over otorrhea, in diseases of the nasal passages, chronic catarrh, etc., and for diseases of the rectum. I have found it very useful as an application for chronic cases of pruritus ani, as well as in general cases of prurigo. be removed, but this should be done only as a der- In such cases it will often afford perfect relief where other remedies have failed. For the treatment of ulcers of the leg nothing could be more satisfactory. It should be used as a thick paste completely covering the sore. I direct the patient to carefully and thoroughly wash the ulcer and the surrounding skin with the best Castile soap, then apply the pure boracine, and then to bandage the leg with the solid rubber bandage.

For injection in cystitis it is to be highly recommended. For use in diseases of the eve it is excellent. For the treatment of diphtheria in 25 per cent. solution for the steam atomizer I have found it excellent, and altogether preferable to any other preparaface. It can also be spread on absorbent cotton and The writer first became interested in the subject of introduced and applied in that manner. After considerable experience with the various preparations used Lister, in Edinburgh, in 1870, and subsequently in for local treatment in these disorders, I find none yielding such satisfactory results as the boracine. The cleanliness and the gentleness of this remedy. and the steady improvement resulting from its use, will be very satisfactory to both patient and physician.

Messrs. Metcalf & Co. have, at my suggestion, the value of boric acid in combination with glycerine, suppository in various rectal disorders, particularly

ally by using them every other night.

action of boracine remarkably good. Cases which underneath will always prevent it being drawn too have refused to improve under ordinary treatment tight. So effectually does this answer its purpose respond quickly to the use of boracine ointment. I that I have on more than one occasion found the direct the head to be shaved and carefully washed original dressing, on first exposing the stump, almost with Castile soap, and boracine ointment, 15 to 20 perfectly dry and clean. Oakum, besides being per cent., applied. The washing with Castile soap more or less antiseptic, keeps the cotton together, and and careful drying is to be attended to night and enables us to save the use of the latter to a certain morning, and then the ointment is applied with the extent as well. Wood-wool, although a most excelmost satisfactory results. In many obstinate dis-lent absorbent dressing in suitable cases, is somewhat

but the writer feels confident that the experience he has had with the new antiseptic justifies him in praising its merits and in cordially recommending it for it be a lower one, is fixed in a heavy box splint and use by the medical profession. To say the least, we well packed round with cotton. Should the upper general usefulness.

Newport, R. I., April, 1886.

#### MEDICAL PROGRESS.

infrequent dry dressing, free drainage, accurate adap- ria prevails.

in piles, and I have also used them with great success tation of flaps, and rest. Under the last mentioned, in the treatment of "thread worms." No. 2 is of pressure by means of bandages may be included medium size, and can be used either for the rectum. To prevent putrefaction of bloody and serous disor for the vagina. Where a larger amount of bora-charge I prefer to have the dressing medicated with cine is required, in cases of chronic leucorrhea, vag-| some unirritating stable material. Of all I have tried, initis, or uterine disease, No. 3 suppository is indi-boracic acid or iodoform is decidedly the best. The cated. The larger suppositories should not be used latter is more expensive, however; hence I have more than three nights in succession, and experience found boric cotton more convenient to use. In order has taught me that the best results are obtained usu- to press the flaps close together, and thus lessen or avoid exudation. I draw the bandage as tight as pos-In chronic eczema of the scalp I have found the sible; the thick elastic pad of cotton and oakum eases of the skin boracine will be found very valuable. unmanageable in amputations. Made into pads, it So many new antiseptics have come into notice of does not fit closely enough; and employed loose, it late that boracine will be viewed with some doubt, is difficult to apply, and is inclined to get lumpy or have no antiseptic better at hand at present, and, in limb be operated on, the stump is securely fastened the writer's opinion, nothing which can equal it in to the side of the trunk, with plenty of cotton interposed and placed around. The cotton packing, as well as the thick dry dressing, preserves the normal heat of the parts, a matter which I believe is essential to rapid and perfect union. Lowering of the temperature by wet dressing, exposure, or cold applications tends, I am convinced, to delay or prevent union by first intention. During the progress of the THE ANTISEPTIC TREATMENT OF WOUNDS .- At case the thermometer is used morning and evening; the close of an interesting article on this subject if the temperature remains normal, or does not rise SURGEON-MAJOR W. GRAY calls attention to the fact beyond 99.5° F. occasionally, all is going on well, that in a long series of cases the latter half were much and the original dressing need not be disturbed soonmore successful and this greater success appears to er than the ninth or tenth day. When removed the coincide substantially with the disuse of the water- flaps will be found firmly united. The drainage-tube proof covering, and with the adoption of dryer and may now be withdrawn, its track gently syringed out thicker absorbent dressing. Accurate adaptation of the with carbolic or sublimate lotion, a little iodoform flaps I regard as of great importance. I now always introduced, and the stump redressed with oiled lint mark them out with a scalpel, in order to insure even or with boric cotton, taking care to sprinkle either ly cut edges, and when the skin has contracted they with iodoform. Some of the unsoiled boric cotton are completed by transfixion in the usual way. My from the original dressing will do quite well enough, experience has taught me, too, that antiseptic appliary A pad of oakum and a bandage complete the second cations direct to the wound are in many cases unner dressing. This may remain on for four or five days cessary. I allude especially to those cases where the longer, and when removed the track of the drainagetissues are perfectly healthy. Still they do no harm, tube will have closed. The sutures may now be taken and, by way of making "assurance doubly sure," out, the stump being practically healed. Should the may be employed in every instance. All I mean to temperature, during the course of the second or convey, however, is that we can in a certain class of third day, rise to 100° or beyond, and remain so, the cases obtain as good results without as with them, antiseptic dressing has probably failed and must be provided we attend carefully to other precautions. removed, the stump being treated in the ordinary I never under any circumstances use the spray, way, or, better still, with wood-wool and iodoform. Moisture in any shape or form I look upon as one of Before doing this I always administer quinine, as the the most fertile sources of failure. Our whole efforts fever may be of malarial origin, and not traumatic. should be directed to preserve both the wound and the In more than one instance this has proved to be the dressing in the driest condition possible. The essen- case. The precaution I note here is, however, tials, then, of my present procedure are cleanliness, scarcely necessary, except in a climate where mala

This paper has run on to such a length that I can rect, it follows that bleeding is due to functional hardly do more than to mention that the treatment, derangement of the liver, or, to put it differently, on the same principles, of other surgical and of acci-dissolution from its normal and healthy development dental wounds has met with nearly equal success. or imperfect evolution. In the former class of cases, especially where there Now, I firmly believe that the tendency to bleed is much areolar tissue—say, the axilla after removal occurs with the gouty diathesis; and that the excess of a large tumor—the surface, after bleeding has quite of uric acid in the blood, and the locality of the bleed-ceased, is well rubbed over with iodoform, closed, ing, is due to individual peculiarities. Most people and dressed with boric cotton and oakum, as described above, and the result is all that can be described above, and the result is all that can be described above. The provides for the adjust the provides for the provides sired. In the operation for the radical cure of hernia, from the lungs. Now, those who do so from the lungs or after hernioromy, this treatment of the wound has need not necessarily descend from phthisical ancesbeen attended with remarkable success, union by tors; a badly formed thorax, interfering with due exfirst intention being the rule. Accidental lacerated pansion of the lungs, may be a sufficient cause. and incised wounds are first thoroughly cleansed with apart from such considerations, and to come to treatcarbolic lotion, then washed with sublimate lotion, ment, I think such people are best cared for by being iodoform is rubbed in, and the dry dressing, either dieted. Alcohol and meat are pernicious. But, supboric cotton or wood-wool, applied. Sutures are posing such a person has an hæmoptysis, saline purgnot used, no matter how widely the wound may gape. atives, diuretics, and diaphoretics will best meet the The first dressing may be left on for twelve or fifteen case. But as these people are always very nervous, days, or even longer, provided the temperature keeps it is necessary to administer a nervine tonic. Opium down. In compound fractures the preliminary cleans- may also be given; cannabis Indica is almost better. ing must be very carefully done before the sublimate I quite agree with Dr. Samuel West in his remarks on lotton and iodoform are applied. The latter lotion should be forcibly injected with a syringe into every crevice of the wound. I find that for this purpose It is to my mind often amusing to read the experia Higginson's enema syringe is the most convenient; ence of some as to the value of a particular remedy a continuous stream of lotion may be easily sent by in the treatment of bleeding. It seems to be forgotit up the sheath of a tendon or, in case of amputa- ten that bleeding naturally ceases when the vascular tions, between the flaps after the sutures have been system is adequately reduced. This is nature's inserted. The dry dressing in compound fractures method of saving the patient, and we cannot do requires to be very thick and to be bound on firmly; better than imitate her. Bleeding, therefore, or dry the limb is afterwards fixed on the appropriate splint. cupping, or depressants, ought to be effectual aids as Small or clean-cut wounds under this method of applied by us. Certainly, astringents imbibed cannot treatment will be found closed on removal of the hold out much prospect of doing good. And as iron dressing, and larger ones with a healthy granulating and opium also do not agree with these gonty people surface.—Lancet, April 3, 1886.

TREATMENT OF HEMOPTYSIS.—MR. H. T. BACH-ELOR, of Queenstown, Cape Colony, says: In con-noxious combination. A man has an haemoptysis, sidering the treatment of hamoptysis, one naturally we will say, and he is given such a mixture. It is to be included the liability to bleed in the individual, the bleeding has stopped naturally. He continues that is, the constitutional liability, as well as the reason with the mixture to prevent a recurrence, with frewhy he bleeds from the lungs. Bleeding is by no quently unhappy results. liable; but if we could select our bleeding ground, it digitalis increases the tension in the already wounded to be regarded chiefly as an expression of a diathesis, naturally expected. Then, as to the bleeding from whether it comes from the nose, lungs, stomach, rec- the lungs, the danger does not lie in the amount lost, tum, kidneys, or uterus; an expression of a diathesis but in the irritative changes it induces in the lung aggravated probably by some error in diet or other substance. Now, it is believed that the cough must temporary cause. I am not now referring to bleeding be allayed (and to do this, opium is usually given), from ulcerated lungs or stomachs, etc., where a vest in order to prevent more bleeding. If it be accepted hiemorrhage which occurs suddenly in a person in the expectoration of the effused blood. I am cermembrane. The diathesis which underlies the ten opium continuously, in order to stop more bleeding, dency to bleed has, by Mr. Jonathan Hutchinson, although the patient may not die of hemoptysis, he been shown to be the gouty. Fothergill's definition assuredly will eventually of lung inflammation. To of gout is: "Gout is hepatic reversion—the forma- give opium is assuredly a barbarous way of treating liver." If these two statements be accepted as cor-discrepancy with a former statement, when I said

if continuously used, much care ought to be exercised in prescribing them.

Iron and digitalis I believe to be a particularly oblooks for the cause; but I think in the cause ought supposed that it stops the bleeding, whereas I believe The iron impedes still means an unfamiliar accident to which mankind is more the already imperfectly acting liver, and the would not be the lungs. But bleeding in itself ought vessel. It follows, then, that a recurrence may be sel is opened, and the treatment would best be met as true that the bleeding naturally tends to cease, I by a ligature if we could only apply it, but to the think we ought not to do anything to interfere with good health, and from an apparently healthy mucous tainly of opinion that, if it be necessary to give tion of primitive urine products by a mammalian lung affections. In order to explain an apparent

that opium might be given to allay the vascular and symptoms of iodism. The latter patients he had -British Medical Journal, April 10, 1886.

most of which the patients not only received relief benefited. during their attacks, but were cured without the inpalliative, like the fumes of niter, but as a true cura tive remedy, and one entirely free from all inconveniences.

Dr. Lublinski's communication (Centbl. für die Ges. Ther., Heft xii, 1885), embodying his experience with pyridine in asthma, is of considerable interest and value taken in connection with the foregoing abstract of Professor Séc's paper. He does not undervalue the importance of treating the nasal passages, and the administration of potassium iodide, in most cases of asthma. But a certain number of patients remain that are not benefited by the former, and in

nervous tumult, I wish to say that a single dose may been in the habit of treating variously until he had be given for this object, but the continuous adminis- read Professor Sée's article on the treatment of such tration is hurtful. As I said before, I believe can- cases with pyridine. Since then he has been employnabis Indica the better of the two for this purpose. ing. at his Poliklinik, pyridine inhalations according to Professor Sée's instructions. Nearly all the patients gave expression to a feeling of relief at the Pyridine in Asthma. - Professor Sée, in a lengthy commencement of the inhalation, and said they felt article (Bull. Gen. de Thérap., Oct. 1885) upon the the breathing grow easier and the chest expand more treatment of the various forms of asthma, makes the freely. Objectively, Dr. Lublinski could confirm following remarks upon pyridine in the treatment of these statements in emphysematous patients by notthat disease: When the iodides can not be taken, ing that the respiration diminished in frequency, and or when they give rise to grave symptoms of iodism, the loud whistling ronchi ceased. There was no apthe patient usually resorts to some empirical remedy parent effect on the heart, but the pulse not infrein the form of an inhalation. An analysis of this quently showed a diminution in the number of its usually shows it to contain pyridine as the active in- beats, while its rhythm and quality remained ungredient. Pyridine is the product of dry distillation changed. The invincible tendency to sleep, which of pit-coal, and is a liquid, colorless, very volatile, Professor Sée mentioned as occurring only occasionand has a strong and penetrating odor. It is miscible ally, supervened in most of Dr. Lublinski's patients. with water in all proportions, forming with the mineral The patients all said they felt improved, and that they acids soluble but unstable bases. It diminishes the had passed better nights. They came to the Polireflex functions of the medulla and respiratory center. klinik twice daily to be treated, some of them quite The best way of administering it is to put 3j to 3j a distance, which was strong evidence that their statemxv in a saucer, and place the saucer in the center ments were grounded on truth. Still says Dr. Lubof a small room, the patient to sit in one corner of linski, it must not be denied that in a few cases the room, so that, as he breathes, he inhales an air symptoms manifested themselves that appeared dangmingled with pyridine. The séance should last from erous. In one case, trembling of the limbs and twenty to thirty minutes and be repeated three times nausea occurred; in another, violent vomiting, with a day. The absorption is rapid, for it soon appears dizziness and headache; and another patient felt as in the urine. Great relief is experienced in a short if paralyzed. All these symptoms disappeared, howtime. Occasionally, toward the end of the sitting, ever, after a time without leaving any further ill-effects the patients have an invincible tendency to go to on the patient's health. Still, they were not infresleep. In some cases the attacks of asthma had en quent, and required careful attention. In decrepit tirely disappeared; in others they returned in eight individuals with emphysematous asthma, a weak heart, or ten days. The following is an analysis of Pro- and poor circulation, and in those with valvular affecfessor Sée's experience with the drug: Of fourteen tions with symptoms of congestion, those symptoms patients (three females and eleven males, from 30 to are particularly prone to develop. An analysis of 60 years of age), three suffered from pure neurotic the cases treated by Dr. Lublinski shows them to asthma, and were cured; three, with catarrhal and have been two cases of emphysematous asthma comemphysematous asthma, received amelioration; in plicated with phthisis, two of neurotic asthma, four one old case of nervous asthma there was benefit, of bronchial, and five of cardiac asthma. Of these but the drug had to be suspended on account of the twenty-one patients that had been treated with the vertigo and nausea it caused; in five cases of cardiac pyridine for a time (8-14-21 days), only the two with asthma the amelioration was pronounced without any neurotic asthma could be said to be cured. Of the ill effects upon the heart. In a subsequent note Pro-remaining patients, ten experienced marked improvefessor Sée adds: During the past three months I five received some relief and were at least able to have used pyridine inhalations in about fifty cases, in pass the night in bed, and four were not appreciably

Dr. Lublinski employed pyridine in heart affections, tervention of potassium iodide. I am, therefore, independent of asthma, and the results, briefly stated, constrained to consider pyridine no longer as a simple are that it gave marked relief in the feeling of oppression accompanying that disease. To sum up, the author would say that pyridine is not a specific in the various forms of asthma; that it finds its best application in cases of neurotic asthma, in which potassium iodide, nitro-glycerin, and amyl nitrite are contra indicated, but even in these we must wait for further experience; that in the various other forms of asthma pyridine is a palliative, which must not be used indiscriminately; the cases require to be selected. -New York Medical Journal, April 17, 1886.

THE INFLUENCE OF STARVATION ON THE NERVE whom the smallest dose of potassium iodide produces | CENTRES. - DR. P. J. ROSENBACH, house-physician to Professor J. P. Mierzejewski's clinic, has studied tense, as to create a distinct and characteristic macro-(Vestnik Klin. ee Sudeb, Psikhiatr., vol. 1, part 2, scopic appearance. The connective tissue of the and St. Petersburg Inaugural Dissertation, 1883) ex-structures is somewhat rarefied. The sympathetic perimentally, in dogs and rabbits—1, the microscopic (cervical) ganglia present the same alterations, but in changes occurring in the central nervous system in a slighter degree. animals starved to death; 2, the influence of starvation on the excitability of the brain; and 3, the clin-points out that the same lesions are found in myelitis ical symptoms resulting from the action of starvation of traumatic and idiopathic (Leyden, Erb, Hayem, on the nervous system.

changes wrought by starvation were very marked and the guidance of Prof. J. P. Mierzejewski: Danillo's constant, though they were almost exclusively limited "On the Morbid Anatomy of the Spinal Cord in to the nerve-cells, the cells of the anterior horns pre- Phosphorus Poisoning," 1881; N. Popoff's "On Acute senting the most intense alterations. The latter Myelitis from Lead, Arsenic, and Mercury," 1882 consisted in "opaque swelling" of the protoplasm, (see the London Medical Record, December 1883, p. wax like degeneration with loss of the processes, 515); and Tchij's "On Alterations in the Spinal Cord granular or hyaline degeneration or disappearance of in Poisoning by Morphia, Atropia, Nitrate of Silver, the pucleus, sieve-like vacuolization, and complete and Bromide of Potassium," in the Meditz Pribav, R disintegration of the cell with fatty degeneration of Morsk. Shorn., May and June 1883.—Rep.] But, at detritus. The longer the animal has lived under the same time, there are present important distinctions starvation, the greater are the alterations found, the between starvation on one side, and myelitis and lesser is the number of normal multipolar ganglionic poisoning on the other. In starvation, there is abelements met at an individual section. All other sence of all inflammatory phenomena, such as infilconditions being equal, the most intense changes are observed in the neighborhood of the blood-vessels. "granular cells," thickening of the vascular coats, etc., [That is, the morbid process in starvation follows the which are always found in myelitis and poisoning general law of spreading of diffuse degenerative processes in the spinal cord, as established by Dr. James nothing but results of a defective nutrition, in con-Ross, and as subsequently supported by N. Popoff, sequence of arrested supply of nutritive material. Tchij, etc.] The cells of the posterior horns under. The localization of the degenerative process is dego the degeneration in a far slighter degree than those termined by the nerve-cells possessing a comparaof the anterior. The neuroglia and nerve-fibres show tively weaker power of resisting any disturbances only some opacity and swelling. [Like Dr. Man- of the general nutrition. kovsky (see the London Medical Record, Feb., 1884, p. 73), Dr. Rosenbach never saw anything like "ho- (conjointly with Professor V. M. Bekhtereff) a series mogenous degeneration" of the interstitial tissue of of experiments on stimulation of the psycho-motor the gray matter, as described by Dr. N. Popoff; centres in dogs, the author found that, to obtain the neither did he see Popoff's "pigment degeneration" minimal motor effects, the strength of electric current of the ganglionic cells.] The vascular changes are must be greater than in the normal (non-starved) anthe most marked in sections presenting the most in-tense degeneration of the nerve-cells, and consist in the brain is lowered under the influence of starvation. intravascular accumulation of red and white bloodcorpuscles in capillaries and veins; in hæmorrhage not present any nervous symptoms at all. As to per diapedesin; and, relatively rarely, in "plasmatic" | dogs, there were observed some individual differences. or "colloid exudation" (Lockhart Clarke's "granular" Thus "stray" or "street dogs" (or "no man's dogs"), or "fluid disintegration").

the psychomotor area, as well as in the occipital, diet good humoredly, and even preserve a cheerful frontal and parietal lobes) there are present the same disposition for a pretty long while. Meanwhile, the degenerative changes, but they are considerably less animals accustomed to good care and regular feeding pronounced than in the spinal cord. The ganglionic at first manifest considerable restlessness, whine, and elements in the optic thalami, corpora quadrigemina, howl. But afterwards all starved animals become etc., present only slight opaque swelling. The white quieter and listless, lie motionless, and do not even substance everywhere is free from alterations. The touch any food put before them. Dr. Rosenbach circumvascular spaces show marked dilatation, but did not see anything like delirium or hallucinations without any accumulation of leucocytes.

ized in Purkinje's ganglia; shrinking of their proto-life.—London Medical Record, January 15, 1886. plasm, vacuolization, and disappearance of the nucleus, being the changes prevalent.

same degenerative changes, except hamorrhage and cases in which this drug was used in cystitis. colloid metamorphosis, are found. The lesions of

Discussing the changes above described, the author Vulpian) as well as toxic origin [as proved by the Morbid Anatomy. - a. Spinal Cord. - The following experimental researches carried out under

2. Excitability of the Brain .- Having carried out

3. Nervous Symptoms in Starvation.—Rabbits did accustomed to vicissitudes of life and half-starving b. Brain.—In all parts of the cerebral cortex (in generally, in the beginning bear a complete hungerof inanition, except in one case where the animal c. Cerebellum.—The degenerative process is local- gnawed off a part of its paw in the last day of its

PICHI (FABIANA IMBRICATA) IN CYSTITIS.—DR. d. Intervertebral and Sympathetic Gang.ia.—The HAL. C. Wyman, of Detroit, gives a record of five

The first case in which I used the fl. ext. pichi was the nerve cells in the intervertebral ganglia are so in- early in January, when my attention was called to the drug by Dr. J. E. Clerk, the chemist of this city. A was the subject of spina bifida over the upper part of without causing the patient any inconvenience.

the one used.

present in abundance. He was put on fluid ext. pichi, Journal, April 10, 1886. and continued its use for three weeks. He has made an excellent recovery.

and sciatica in the course of which urates were pre- delphia, in an article on this subject, gives the concipitated from the urine in large quantities, and which clusions of Durand, and then his own as follows: recovered while the patient was taking the pichi. Combined with a potassium salt I have found it to act more quickly than any other remedy in bringing about a solution of the urates and relieving the rheumatic neuralgia so frequently associated with that unstable condition known as lithuria, phosphatism, etc.

A formula I have often used is-

S - Teaspoonful once in two hours.

- Therapeutic Gazette, April 15, 1886.

Dr. Lycerti exhibited a girl, aged 6, who, at birth, Merck of Darmstadt, there is no reason why a con-

Mr. G., aged 23 years, who contracted gonorrheea a the sacrum, forming a tense sessile tumor, of the size year or more ago, and who had stricture of the urethra, of an orange, having an ulcerated surface of the area which I found necessary to divulse a few days before of a crown-piece, which, on healing, formed a thin Christmas. A copious hæmorrhage from the deep membranous covering to that portion of the sac. nrethra followed the operation, and a few days later As it became thinner through expansion, it was severe vesical tenesmus disturbed the patient so that tapped when she was six weeks old. An ounce and sleep and appetite vanished. All the symptoms of a half of fluid was drawn off, and forty minims of typical cystitis speedily developed. Morphine, bella- iodo-glycerine injected with a negative result. The donna, hyoscyamus, and alkalies were used internally sac refilled about a week afterwards; about an ounce and by the rectum for a week without materially of fluid was withdrawn, and the injection increased modifying the symptoms. So irritable did the bladder to a drachm and a half, causing the sac, in a few days, become that it would not retain urine longer than to become obliterated. Co-incidentally with the five to fifteen minutes. I now began the use of the shrinking, however, came loss of sensory and motor fluid extract of pichi in 15-drop doses in water once power in the legs, with incontinence of fæces and in three hours. The tenesmus and pain began to de- urine; the paraplegia, which persisted, being comcline after twenty-four hours, the mucus and pus also pletely below, and incomplete above the knees. to diminish in quantity, and at the end of the week Hydrocephalus also commenced immediately after the bladder would retain its contents three hours the operation, and gradually increased until the third year, when the fontanelles closed without developing This patient has now, March 8, fully recovered, any nerve-phenomena, or impairing the mental power. I think the cystitis was of traumatic origin, the harsh The horizontal circumference of the head now measmanipulation of the vesical mucous membrane with ured twenty-two inches. In the report of the comthe divulsing apparatus. Thompson's instrument was mittee, appointed by the Clinical Society of London to inquire into the subject of spina bifida, there was Mr. H., aged 71 years, had been getting up nights a case recorded, where paralysis supervened and so pass urine for the last five years. Ten months ago persisted after the cure of the tumor, and appeared he found he could not empty his bladder, and was to be due to the treatment adopted. In several cases compelled to call a surgeon to use the catheter. A temporary paralysis occurred, which passed off in a severe chill followed, and he was very sick for two variable time; once complete paraplegia, which submonths, having the catheter used every day. He sequently disappeared. In three cases, hydrocephlearned to use it himself, and continued to use it alus set in subsequently to the cure of the spina daily until last February, when he had another chill, bifida. Of the various operative measures, that by and his left testicle swelled and inflamed. He was the injection of iodo-glycerine was recommended in too sick to use the instrument. I was summoned by preference to any, as promising the greatest success, his medical attendant in consultation, and opened a though the table of results showed that of 7: cases, large abscess of the left testicle, and advised against only 35 recovered, 27 died, 4 were relieved, and 5 further use of the catheter. His prostate was greatly unrelieved. As evidence of the frequency and serienlarged. Opium and camphor suppositories relaxed our nature of this affection, it appeared that it caused the spasm of the catheter. His urine was heavily no fewer than 647 deaths in 1882, of which 615 were loaded with urates. Mucus, blood, and pus were in children under one year of age.—British Medical

Physiological and Therapeutic Effects of I might enumerate numbers of cases of lumbago ADONIDINE .- DR. HOBART ARMORY HARE, of Phila-

Durand says that in doses of gr. ss adonidine-

- 1. Increases arterial tension.
- 2. Regulates the heart-beat.
- 3. Diminishes the frequency of the pulse.
- 4. Increases the force of the cardiac contractions. 5. Acts with rapidity, its effects being only present
- during its administration. 6. Increases diuresis.
  - 7. Is well tolerated.
- 8. That the indications for its use are the same as

He commends its use, especially in mitral insufficiency and interstitial myocarditis, and in palpitation Paralysis after Injection of Iodo-glycerine of the heart. Such a drug ought surely to be of sig-FOR SPINA BIFIDA. —At the meeting of the Wolver- nal service to the profession, for though it is at preshampton and District Medical Society, on March 4, ent of high price, being made almost entirely by tinued call for it should not make its cost within the subject an operation for removal of the foot, which reach of everyone, the adonis vernalis being by no he believes has several advantages over Pirogoff's means rare, its rhizome having been used as an adul- amputation. Standing on the outer side of the limb, terant for black hellebore, and the process of obtaining he commences an incision at the insertion of the tenthe glucoside is not expensive.

accelerator apparatus.

minished in calibre.

tion, unless the quantity administered be enormous. forceps and turned so that the articular surface is Under these conditions it paralyzes the sensory side towards the operator. The forceps are now taken peutic Gazette, April 15, 1886.

obstinate gonorrhœa no especially remarkable effects now brought into apposition with them. The adby severe vesical tenesmus, frequent and painful posterior tibial artery is itself untouched, only its micturition, etc., the acute symptoms were speedily branches being divided. 2. The insertion of the ally in quantity. 3. In a case of suppurative neph- 3. The surfaces of the os calcis and of the leg bones micturition, and the urine was loaded with pus, an April 3, 1886. improvement was noted within twenty-four hours, and at the end of a fortnight the pus had entirely disapof ordinary remedies for over a month; he was rein the seventh month of pregnancy. The injection lieved permanently in a few days by the use of yellow of two drops of a 20 per cent. solution of cocaine within two days after giving santal oil the improve-ment was marked, and at the end of a week the ana-sarca had disappeared and no more albumin could be halation seemed to rouse her, and after the second February 14, 1886.

TAUBER described and demonstrated on the dead Medical Record, March 15, 1886.

do Achillis, and carries it forward just below the ex-Conclusions. - Adonidine in all doses increases ar- ternal malleolus to the dorsum of the foot, and then terial pressure by stimulating the vaso-motor centres vertically downwards on the inner side in front of and by increasing the cardiac force.

the heel. When the middle line of the sole is reached In moderate doses it increases the pulse-rate and the incision is carried along it backwards and proforce from the first, but when large toxic doses are longed upwards to the starting point at the insertion given, it primarily slows the heart by stimulating the of the tendo Achillis, a flap having thus been cut pneumogastric, and then increases pulse-rate by de-consisting of the inner side and half of the sole of the pressing the inhibitory nerves and stimulating the heel. The joint is then opened, the external ligaments being first divided and then the internal. The The slowing of pulse-rate is also in all probability astragalus is seized with the bone forceps and redue in part to increased arterial pressure, as under moved, and the anterior part of the foot cut off by these circumstances the blood-paths are greatly di- Chopart's line, nothing being left but the os calcis, the soft coverings of which on the inner aspect are On the nervous system the drug has but little ac- untouched. The os calcis is seized with the bone of the cord, but has no effect on the motor tract or by an assistant, who holds them tightly; the operator on the efferent or afferent nerve-trunks.—Thera- then saws the bone longitudinally in two; the outer half, which is free, is removed, the inner half remaining attached to the flap. The ends of the tibia and SANTAL OIL IN URINARY AFFECTIONS.—DR. A. P. fibula are then sawn off just above the malleoli. The GIPOULOU gives the following as the results of his use cut surfaces of these will be found to correspond of the oil of yellow sandal-wood: 1. In chronic and almost exactly with that of the os calcis, which is were produced. 2. In acute gonorrhoea accompanied vantages claimed for this operation are: 1. The relieved, though the discharge diminished only gradu-tendo Achillis, as well as its bursa, are not injured. ritis of the left kidney, in which there was frequent correspond very nearly to one another.—Lancet,

ANTIDOTE TO COCAINE POISONING.-DR. F. SCHILLpeared from the urine. 4. A railway employé was ING describes a case of cocaine poisoning, coming on suffering from acute cystitis, accompanied by tenes- after the drug has been locally applied for the extracsandal-wood oil. 5. In a number of cases of vesical caused sufficient anæsthesia for the extraction of the catarrh equally rapid and permanent results were ob- tooth. As the patient was leaving the room the tained. 6. In three cases of simple acute unilateral dentist noticed that her eyes were fixed, and a few nephritis speedy relief was afforded by the same minutes after making her sit down she became unremedy. 7. In two cases of nephritic colic excellent conscious, reacting to no stimulus. The injection of results followed the administration of santal oil; the ether had no result. During the unconscious state, attacks were promptly cut short, and an apparent which lasted over half an hour, the breathing was cure was the result. 8. Finally, he relates a case of quiet, the pulse 86, and regular; the eyes were wide acute Bright's disease following scarlet fever, in which open, with medium-sized pupils, and the conjunctival there was general anasarca and the urine was heavily reflex had disappeared. The patient could not be loaded with albumin. During a treatment of four or roused by shouting, but after a time began to call her five days with diuretics the cedema increased, but husband by name. Dr. Schilling, considering that found in the urine. - Journal de Méd. de Paris, she could answer questions hesitatingly, but correctly. She was well in a short time. As the author states, it is a question whether the symptoms were not due Modification of Pirigoff's Method. - At the to shock, as the patient was pregnant. He, however, recent Congress of Russian practioners, Professor considers this an improbable explanation.—London

#### Journal of the American Medical Association. PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to he published. All communications in regard to editorial work should be addressed to the Editor.

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#### SATURDAY, MAY 1, 1886.

#### PELVIC ABSCESS IN THE MALE.

CHARD, Lecturer on Surgical Emergencies at Bellevue tedious suppuration, with its attendant evils. Hospital Medical College, read a paper on "Pelvic letter for this week.

pelvic cavity—below the cavity of the abdomen, pressure on sensitive nerves and organs from which it is separated by the pelvic reflections of the peritoneum, and above the muscular floor formed their tendency to burrow, and there are very great by the levator ani muscle. It is not to be confounded dangers attendant thereupon. Their natural destinawith abscesses of the abdomen-typhlitic, perityphtion should be the peritoneum, and such, doubtless, litic, etc., -nor with those originating below the leva- would be the case, were it not that the extremely tor ani, in the ischio-rectal fossa. Mr. Henry Morris dense fibres of the levator ani and the prostatic musdivides such iliac abscesses of pelvic origin into two cles, which are largely composed of firm, fibrous tisgroups: (1) the subperitoneal, and (2) the sub- sue, present an almost impenetrable obstacle. The spread widely, in both an upward and a downward and here many of these abscesses are evacuated. direction, reaching the upper boundaries of the ab- Many, however, mount the pelvic cavity, and appear domen and even burrowing behind the diaphragm, within the abdomen, after which their course is erratic. while the latter are more circumscribed, forming be-

tween the fascia iliaca and iliac muscle, and producing caries or necrosis of the bone.

The clinical history and symptoms naturally vary according to the acuteness or latency of the attack. Should the attack be acute, both the constitutional and the local disturbance are proportionately greater. and it may readily be mistaken for one of general or circumscribed peritonitis, on account of the similarity of the symptoms. Abscesses which form thus acutely are more likely to evacuate themselves spontaneously, either in the rectum or the bladder, than those of a subacute or chronic character. The inference is logical that suppuration, when it occurs, does so a considerable time before it makes itself manifest by external tumefaction, and that the delay in getting the evidences of abscess is not due to absence of pus, but rather to the difficulty which the pus has, on account of the suppurative process, in coming to the surface. During all this time, however, the constitutional evidences of internal suppuration are more At the meeting of the New York Academy of or less pronounced, and a carefully conducted exam-Medicine, held on April 15, Dr. T. HERRING BUR- ination at this stage may prevent many months of

Nevertheless, chronicity, rather than acuteness, Abscess in the Male," which was of special interest seems to be the rule with pelvic phlegmons in the on account of the presence at the meeting of a pa-male, except in cases having a traumatic origin; and the tient on whom Dr. Burchard had performed lapar- affection most frequently occurs in the poorly nourotomy for the relief of the condition named. The ished and cachectic, in whom inflammatory processes details of this case may be found in our New York are slow. The diagnosis in such cases is often very difficult, partly on account of the inaccesibility of the While pelvic abscesses in the male have not at- parts affected, and partly owing to the perplexity of tracted the same surgical attention as those occurring symptoms arising from so many different tissues, orin the female, the serious nature of the affection, Dr. gans, blood-vessels and nerves being implicated in the Burchard thinks, is quite as great in the one as in the inflammation. Speaking further in regard to diagnoother. He also believes that it is of more frequent sis, Dr. Burchard said that inflammation, occurring occurrence than the meagre literature of the subject here, manifests itself, in addition to local distress or would lead us to suppose. By pelvic abscess he de-pain, which is generally severe in character, by the sires to be understood as meaning a phlegmonous usual constitutional disturbances. After tumefaction inflammation occurring in the superior portion of the has occurred, another set of symptoms arises, due to

Another feature, peculiar to these abscesses, is aponeurotic. The former, he claims, are prone to next most natural route would seem to be the rectum.

Clinically, it is important to distinguish between an

inflammatory condition pure and simple—a cellulitis of Physicians and Surgeons, the Medical Department simplex—and the same condition after it has passed of Columbia College, of New York, on the 24th into the suppurative stage. The presence of pus of April, 1886, of the very liberal and yet remarkably cannot be recognized at too early a period. It is considerate bequests of the Vanderbilt family for the likewise necessary to distinguish between a pelvic advancement of medical science and art, and thereby cellulitis and general or localized peritonitis; and also the more efficient prevention or relief of human between this and cystitis, proctitis and prostatitis. suffering. First, the late Wm. H. Vanderbilt donated Rheumatism and neuralgia, too, must be borne in \$500,000, of which \$200,000 was for the necessary mind. Surgically, it is necessary to differentiate between abdominal abscesses, ileo-pelvic abscesses, pel-buildings, reserving perhaps something as an endowvic abscesses, abscesses of the ischio-rectal fossa and ment of the scientific laboratories. Next his daughter, perineal abscesses. Exceptional possibilities must Mrs. Sloane, added \$250,000 for the founding of a be carefully considered—such as hernia strangulated Maternity Hospital and endowing it with perpetual in the pelvic foramina, passage or impaction of renal free beds, which was to occupy a part of the same calculi, acute inflammation of the psoas muscle, lots; and finally the four sons of Wm. H. Vandertyphlitis and perityphlitis, and lastly, scrofulous, ma- bilt have given \$250,000 more to establish on the lignant, tubercular and syphilitic diseases of the pel-same premises an extensive Clinic and Free Dispenvic glands.

solves itself into treatment of the cellulitis before ical colleges in this country is placed in a condition suppuration, and treatment after suppuration is es- not only to furnish facilities for the most complete tablished. In the first case rest, morphia, quinine in education of medical men in all departments, both free doses, local refrigeration, and, possibly, local scientific and practical, but also to prosecute such origdepletion by leeches to the perineum, are required, inal researches as add to the sum of human knowl-In employing cold in this or any other inflammatory edge and increase the resources for relieving human condition about the rectum, Dr. Burchard thinks that suffering for generations to come. And vet the nothing equals in efficacy and comfort the continuous Maternity Hospital, and the Clinic and Dispensary, douche of cold water, which passes up and immedi- will be an ever present resource for the relief of large ately returns through a double-flow blind tube. The numbers of the suffering poor. great mistake that is often made by the inexperienced If the actual relations of medical education to the in the application of either this or the ice-coil is in health and comfort of the human family are studied, can be used, and with astonishing relief.

rectal explorations should be desisted from, as they thought to the modes by which they could so bestow often do more harm than good. After suppuration a portion of their wealth as to make it the means of may reasonably be expected, a careful examination, perpetually increasing the knowledge of diseases and under anæsthesia, should be made, in order that the their remedies and in the same ratio diminishing abscess may be evacuated into the rectum at the human suffering and prolonging human life, the exearliest possible moment. If evidence of internal ample furnished by the Vanderbilt family would find suppuration is present, and there is reason to believe many followers. Wealthy men in Chicago have inthat pus is burrowing upwards, an abdominal explor vested more money in building and furnishing mere atory incision is obviously demanded. If this can club-houses, than would be required to endow and be made without opening the cavity of the peritoneum, perpetually maintain the scientific and practical labit certainly should so be done. The object to be at- oratories of all the regular medical colleges of this tained, however, is the evacuation of the pus; but we city. The comparatively small sum of \$100,000 cannot always be successful in this, as adhesions will donated to the Trustees of the Chicago Medical at times form impassable barriers.

#### RICH LEGACIES WELL BESTOWED.

sary for the poor. By thus aggregating the mag-The treatment of these abscesses, externally, re-nificent sum of \$1,000,000, one of the oldest med-

applying it too cold at first. The water at first should we doubt whether \$1,000,000 has ever been donated be warm, and then gradually cooled until ice-water to one general purpose with more wisdom than in the present instance. And if the men and women in our During the stage of acute inflammation frequent country possessed of great wealth would give more College as a special or perpetual endowment of her histological, physiological, pathological and chemical laboratories, in addition to her present equipments, We are reminded by the account of the laying of would at once add an efficient department of original the corner-stone of the new building of the College investigation as active as in any of the institutions of

country in the possession of similar endowments.

their surplus wealth among too many institutions, vent the attendance upon sick women of male phywhether educational or otherwise, and by so doing sicians that it is only necessary to make this allusion the greater part of it becomes immediately absorbed to them. Here, then, is the great field for the female in buildings and grounds, leaving little or nothing as physician; and this has been fully shown in the past permanent endowments for maintaining perpetual and year by the results of the munificient charity of Lady efficient instruction and research. Let those in pos- Dufferin. It is very doubtful if any purely missionsession of a surplus of this world's goods think of any society will be able to show the results, within these things.

#### DR. GRAHAM'S ADDRESS.

the present and future.

itated for the study of medicine few will deny, save fective and helpless classes of society, the moral de-(civilized) country. A recent report of the New occupation, with physical and mental capacity for a the Medical Record, of April 17: "About forty aspirations," many "will find in these fields abundant millions of heathens die every year with scarcely any work which will yield the most beneficent and tangimedical aid. There are two white missionaries to ble results." about one million of heathens. There is one med- Dr. Graham makes some very pertinent remarks ical missionary to about ten millions of heathens, on the "overcrowded condition of the medical pro-Modern medicine and surgery appear miraculous to fession." It is not so much those who look for places

Europe. We mention the Chicago Medical College, the heathens; it is often very difficult to prevent them because it was the first medical college to establish from even worshipping a doctor. Their gifts in gratiand maintain a thoroughly graded system of medical tude for medical aid would shame many Christians. instruction in this country, and a high standard of A medical missionary can, to a large extent, obtain requirements for graduation; but we would also re- his own support. His medical skill will open doors joice to see every meritorious medical college in our otherwise closed to the gospel." So much has been said in the journals of the past two or three It is too much the custom of our people to divide years of the Chinese and Hindoo customs which prethe next five years, that will follow Lady Dufferin's

But apart from this, there is a field in home medi-The address of Dr. D. W. Graham to the graduatione for woman-a fact that is so clearly shown in ing class of the Woman's Medical College, at the clos- Dr. Graham's address that it need scarcely be dising exercises a few weeks ago, which is published in cussed. The female physician, on account of the this issue of The Journal, is so different from the demands of the profession, may not live so long as usual address of the kind, in this country at least, she might otherwise, but it is to be remembered that that it may not be inappropriate to call more particu- "the life is long which answers life's great ends." On lar attention to some of the many suggestive ideas the other hand, her knowledge of medicine may so embodied in it. As was pointed out in an editorial guide her as that she will avoid, and, better than the article in The JOURNAL of May 23, 1885, the usual man, induce other and non-professional women to valedictory, inaugural, graduate, and alumni address avoid, many of the follies of civilization, so that life contains more or less assertion that the profession in may be longer, happier, and more fruitful. If medithis country is in a state of scientific and educational cine has a place in moral education, surely meddepravity. In the address under consideration, how-ically educated women have some part of that place; ever, the author has risen above such pessimistic and it must be claimed that the education in which views, and instead of taking an icteric view of the medicine has a place is the triple education-moral, past and present he speaks wisely and hopefully of mental and physical. To quote the words of Dr. Graham: "There is a positive demand for the services The first point upon which Dr. Graham touches, a of medically educated women. Here are opportumatter which has been much discussed of late years, nities enough and scope enough for all shades of is the fitness and capacity of woman for the study of tastes and all degrees of talents;" in preventive medimedicine. That women are both fitted and capac-cine, in investigating the questions relating to the deupon the grounds that woman's place is the home fects and deformities of youth and adult life, and in circle, and that she is physically unsuited to the de-placing the triple education of which we have just mands of modern medicine. But let us take another spoken on a sound and scientific basis. "Women aspect of the case, leaving out of view for the present are peculiarly adapted for much of this kind of work." those who intend to practise medicine in their own Of "the thousands of women of our land without York Medical Missionary Society says, according to long life of usefulness, with noble and philanthropic

as those who make places, who find them; not those the living body. If it could be shown that adenine who stay in the rear and wait, like Micawber, for is a cumulative poison it would seem to follow that something to turn up. The recent graduate, like the animals fed constantly on the spleen and pancreas one of long standing, has a trust and responsibility in should in time show symptoms of the poisonous action. the honor of the profession; and should he see those going astray who are old enough to set a better example, let him or her hold still more firmly to honor and duty; and remember that medicine when followed as a science and profession is the noblest of all arts, but when entered into with any other view it is the most despicable of trades.

#### ADENINE-A NEW ANIMAL POISON.

In March, 1885, Kossel published an account of a new base, to which he gave the name adenine, which he extracted from the spleen and pancreas, though he says that it is present in all vegetable and animal cells. It is an alkaloid, and isomeric with hydrocyanic acid, and Kossel claims that it proceeds from the physiological decomposition of nucleine, of which the cellular nuclei are composed. Nucleine may be decomposed, when isolated, into albumen, phosphoric acid and adenine; and when adenine is treated with nitrous acid it is transformed into hypoxanthine or sarcine.

M. Gautier now claims that this discovery of Kossel, and its confirmation by M. Morelle, in Gautier's laboratory, uphold his leucomaine theory. M. Morelle finds that adenine is present under normal conditions, and has a powerful influence on the medulla, causing asphyxia and collapse when injected under the skin of guinea pigs and frogs, the symptoms being somewhat similar to those caused by muscarin and digitalin. Accordingly Gautier now announces a general medical law which must henceforth be taken into consideration: Not only the most highly organized cells constantly manufacture poisonous substances, but their nuclei and protoplasm have a groundwork, consisting of an aggregation of most potent toxic molecules.

We may very properly ask, with M. Colin, why animals which are fed on the spleen and pancreas do not die of this terrible poison? M. Gautier replies that the quantity of the poison in a few pounds of spleen or pancreas is too small; that though adenine is isomeric with hydrocyanic acid, it has not the same properties; and that all living cells contain a substance isomeric with hydrocyanic acid But does he not mean that cells once living contain, when dead and treated with chemical agents, poisonous substances? This does not prove that the poisonous substances were in the cells while they were a part of out the battery, inevitable.

## SOCIETY PROCEEDINGS.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, April 19, 1886. THE PRESIDENT, E. J. DOERING, M.D., IN THE CHAIR.

Dr. G. C. Paoli read a paper entitled

THE REASONS WHY FEMALE PHYSICIANS ARE DESIRA BLE IN INSANE ASYLUMS.

He demonstrated that the most eminent specialists in pschiatry in the United States are a unit in maintaining that female physicians are best qualified for treating the female insane. Many States have passed laws requiring one female physician to be allotted to each one hundred female insane in their

Dr. J. G. Kiernan said eminent authorities had already pointed the relation which exists between uterine disease and insanity. Popular opinion is growing in favor of the employment of female physicians in the treatment of the female insane.

Dr. Wm. T. Belfield reported nine cases of

## IMPERMEABLE STRICTURE TREATED BY ELECTROLYSIS.

(See The Journal, April 24, p. 455.) During the past two years he has treated thirtyseven cases of stricture by electrolysis; and except for strictures located within an inch of the meatus, and for strictures of large calibre elsewhere, considers it preferable to dilatation and urethrotomy for the following reasons: 1. It will pass through any stricture, however tight, rigid, long or tortuous. 2. As a rule it causes no pain, bleeding, chill, nor urethral fever. 3. It is always devoid of danger. 4. Its ef-

fects are lasting. In certain numerous cases electrolysis is not merely a preferable, but really the only practicable treatment. Such are, 1, old, rigid, cartilaginous strictures in men of middle or advanced age, where urethrotomy is dangerous and dilatation ineffectual; 2, impermeable strictures; 3, tight and rigid strictures with perineal or scrotal fistulæ.

Dr. Belfield then narrated the successful treatment by electrolysis of nine such cases. In three of these there was complete retention of urine, the bladder being distended above the umbilicus; these strictures were absolutely impermeable, to urine from within as well as to instruments from without. In each case a No. 10 electrode (French) was passed into the bladder in less than twenty minutes, permitting the immediate introduction of a catheter. In each of these cases perineal section would have been, withthese strictures were theoretically permeable, though bert, speak about the matter in a similar way. practically impermeable. In these also a small elec-

meatus and not from the fistulæ.

When properly used, the heat produced is insignificant; not connected with a battery, would produce." with six to fifteen small cells and a weak fluid, the tissues.

culty in micturating since the operation.

used electrolysis with good result.

time, while Sir Henry Thompson has only met with surgery, does not mention electrolysis with a word. three impermeable strictures in his whole life. By were impermeable in the strict sense of the word-

In the remaining six cases Dr. Belfield, as well as solute impermeable strictures, says a stricture may other surgeons, had failed in attempts to pass bougies be impermeable for one man, or at a certain time, into the bladder; yet as the patients were still ena- and permeable for another man, or at another time. bled to force a feeble, dribbling stream outward, Other modern authors on surgery, as König and Al-

The second surprise to him was the advocated trode readily entered the bladder in one or two sit-treatment by electricity, or electrolysis. There has always been in his mind a suspicious halo of mysti-In one case, seen in consultation with Dr. Miller, cism about the electrolysis, whether applied to the the patient had a series of tight, rigid, impermeable different forms of surgical tumors or to strictures of strictures, and twenty-seven fistulous openings in the the urethra. He understands from the paper, that scrotum and perineum; he had submitted to both the electrolysis does not mean galvano-caustic treatinternal and external urethrotomy, and to numerous ment, although quite recently Jardin, of Paris, uses unsuccessful attempts at dilatation; was urinating a small galvano-cautery knife for passing slowly every half hour, day and night. In fifteen minutes through the stricture. Dr. Belfield warns very justly a No. 10 bulb entered the bladder; that night pa- against canterization. The non-caustic electrolysis tient rose only once to urinate, and for the first time is to me a very mystic process. Dr. Fenger rememin several years the urine flowed entirely from the bers years ago of one of Billroth's clinics which he spoke about electrolytic treatment of venous an-The unfavorable results obtained by various phy-giomas of the face, that he expressed as the result of sicians in their attempts at electrolysis have been his experience the following: "The electrolystic caused by the use of improper currents, whereby heat needle has no more or other effect on the tumor in was generated and the urethra cauterized causing vio-question, than the mere mechanical disturbance of lent inflammation and even extensive sloughing the tissue-elements, that is, than any other needle

Frankly, Dr. Fenger said that the historical fate of cicatricial tissue constituting the stricture is dissolved electrolysis in strictures, as well as elsewhere, up to away but not cauterized. Since cicatricial tissue is date, has invariably been the following: Ever since but scantily supplied with blood, and is therefore Tripier, in 1864, and Mallez, in 1872, applied the poorly nourished, it yields to a dissolving current electrolysis in strictures of the urethra, this method which is insufficient to disturb the healthy urethral of treatment has come to the surface once every two or three years only to disappear again, and it has Dr. L. I.. McArthur said he had treated with never been able to take any hold on the profession; success by electrolysis one case in which numerous not because it has not been tried, but rather because operations had already been performed. When pa- it has not been found superior, or even equal, to the tient came to him he could pass a No. 8 sound; used other methods. Dittel states that, on the rather prom-No. 9 electrode, and the patient can now pass No. ising representations of Tripier and Mallez, he tried 15 American sound. Never had any pain or diffi-electrolysis in three cases of very narrow stricture. It proved of no effect in any of the cases, and in one Dr. M. B. Brown detailed two cases of imperme- of them a local inflammation followed. Sir Henry able and two of permeable stricture, in which he Thompson does not even mention the electric treatment anywhere in his writings about strictures, but DR. C. FENGER said he must confess that he was warns very emphatically against any method of causomewhat surprised by seeing the announcement of terization. König says, in a very short appended Dr. Belfield's paper "nine impermeable strictures notice, that only the short and soft strictures dependtreated by electrolysis." He had tried electrolysis a ing upon a polypus or warty growth of granulationfew years ago, but never had any success from it. tissue are proper objects for cauterization, either It surprised him that Dr. Belfield should meet with chemical (Duchamp), or galvano-caustic (Middelnine impermeable strictures in a very short period of dorf). Otis, our American authority in this line of

Newman, of New York (Medical Record, August hearing the paper read, however, he understood that 12-19, 1882), is not only the advocate of electrolysis Dr. Belfield does not mean to say that the strictures in this country, but has written so assiduously and specified the method so minutely as to have it termed, the only correct one—but only meant that it was diff in the foreign literature, "Newman's method." In ficult to pass any instrument through these strictures. 1882, Newman's old and new cases numbered twen Sir Henry Thompson, in his "Diseases of the Urinary ty three only. In reporting Newman's articles for Organs," of 1882, p. 28, says: "Impermeability can Virchow's Jahresbericht, Guterbock, of Berlin, says not be held to describe a character, a physical qual- that "Newman's method has already, in 1872 and ity of the stricture itself, but rather indicates the 1876, been criticised so thoroughly that not much quality of the surgeon who has treated it." Impermore need be said about it." Dikmann, in New York meable stricture is a contradiction in terms; it is not M.dical Record, Jan. 5, 1884, reports twenty-eight heard of so much now as it was twenty years ago. cases. Graf, in Norway, reports, in 1884, two cases Dittel, of Vienna, in speaking about relative and ab- treated by "Newman's method," and Verneuil, in

1884, recommends Jardin's "electrolyse lineavu"-- ly possess one point of national economic value that is, cauterization.

been tried off and on for over twenty years, but has ing many patients. only taken hold here and there, sporadically, and for a short time. It has in the urethral, not any more norantly used; when properly employed it comes than in the other fields of surgery, as yet to any extent replaced the more rational treatment by mechanical means.

The electrolysis may, however, have a further trial, and if the success in extensive resilient strictures, as in one of Dr. Belfield's cases, should prove to hold good for other cases of that kind, it is possible that this treatment will have a better fate in the future than it has had in the past.

DR. R. TILLEY said he did not consider electrolysis to be the proper term to be used in connection Electrolysis, in the ordinary acceptation of the term, means the decomposition by electricity of water, or tissues, being in the nature of a chemical decomposition. He would like to know how far apart the electrodes were placed. (Dr. Belfield replied that the negative electrode was placed in the urethra, and the positive pole in any position on or near the penis, according to the effect intended.) He could not see how electrolysis could be produced with the electrodes so far apart, and a weak fluid, without a caucocaine in producing contraction of the tissues in the nose, he would expect to secure as good if not strictures of the urethra as in the use of electricity. followed by wonderful results.

DR. W. T. BEI FIELD closed the discussion by saying that in reply to Dr. Fenger's criticism that these strictures were not impermeable, he would remind him that he called six of them "theoretically perstream was forced through, but no instrument could about the operation. be introduced. The remaining three were absolutely impermeable to urine as well as instruments. They traumatic osteo-myelitis of the tarsus resulting in anwere water-tight, the bladder in each case being im- chylosis of the joints, fistulæ on dorsal side of tarsus mensely distended. Dr. Fenger, in the cases where and a loss of substance of the skin of the heel. Pirohe attempted electrolysis, evidently made the usual goff's or Syme's operation being out of the question, mistake: he employed a strong current and cauter- the choice was only between a supra-malleolar ampu-12ca, but did not electrolyze, the stricture. With a tation and the osteo-plastic resection. This operation proper current he would probably have a better re- was performed fourteen months ago. Union of the sult. Sir Henry Thompson and Prof. Dittel do not, bones took place in four to six months, and it is only it is true, endorse electrolysis; but he knows that the subsequent small operations for bringing the toes neither of them has ever fairly tried it; they have in dorsal flexion that have required so long a time contented themselves with the vague, unfavorable before the patient has been able to commence to walk. verdict of those who, having once or twice misused ed by everybody else.

which electrolysis lacks, namely: they assist in re-Thus the electrolytic treatment of stricture has pressing the excess of population by quietly remov-

Electrolysis "bobs up" and down only when ig-

To Dr. Tilley he would say that the action is properly termed "electrolysis;" it is the same effect as is seen in the decomposition of water, and is produced by the same current. During the action of the current a white foam and bubbles come up alongside the instrument. Cocaine causes contraction of blood-vessels in the urethra as well as in the nose: but it can not, so far as he is aware, remove cicatricial tissue in either locality.

In conclusion, he would repeat that the secret of with the use of electricity in the manner suggested, success lies in securing chemical force and avoiding heat; the former removes the stricture easily and painlessly, the latter causes violent inflammation and sloughing.

## OSTEO-PLASTIC RESECTION OF THE FOOT.

Dr. C. Fenger then presented a patient before the Society with the following words: I wish to bring this patient before the Society to illustrate the results of an operation called "osteo-plastic resection of the foot," and devised by Wladimnoff and Mikulicz. terizing effect. From his extensive experience of The operation consists in removal of the heel, soft parts and bones, and then uniting the remainder of the foot to the tibia in the position of an artificial pes better results, reasoning by analogy, in its use in equinis. As you will see, the patient has on a plaster cast from the toe to below the knee, and is able to He would think its internal application would be walk in this cast without crutch or cane. He limps because the leg operated upon is two inches longer than the other one, and not because of inability to step on the leg. He will have in future to wear a high sole or heel under the well foot. While this plaster cast is being taken off I shall pass round the meable, practically impermeable;" that is, a feeble specimen of the removed heel and say a few words

The patient had suffered for one year from a chronic

The plaster cast being now removed, you will find the current, attribute to the battery the faults which, the foot in the axis of the leg in equinus position, the belong to themselves. Thompson's conservatism and toes dorsally flexed to a right angle with the foot intolerance are notorious; he bitterly opposed Bige. There is active flexibility of the toes and some active low's litholapaxy (without trying it) until it was adopt- mobility of the foot. This mobility, however, does not take place between the united surfaces of the Possibly, as Dr. Fenger says, these is no "urgent tibia and fibula on the one side and the scaphoid and necessity for any other method than urethrotomy cuboid bones on the other; as can be seen by examand dilatation; but surgeons who have to treat many iming the prominences representing the rudimentary such strictures as those described in the paper under newly formed malleoli—but the mobility takes place discussion, think otherwise. These methods certain | in the joints of the metatarsus. As to the question

field. You will further notice that the walking surface of the foot, being the plantar surface of the heads, obtain an approximation of one with of a micronilli larger than the surface which either a Syme's or a quantity does not permit of any differentiation Piragott's operation would leave the patient to walk on. This, together with the active mobility of the the globular dimensions in the same species in a phytoes, is regarded as an advantage that functionally other operations mentioned

on pressure, and consequently there is nowhere any recurrence of the disease.

Mikuhez feared that the anterior tibial artery might strike an average. not be sufficient for the blood supply of the foot, his method of operating dividing all the branches of the surations, in five sittings and on five different prepar founded, as in one of Sordina's cases operated upon millimetre, the blood may belong to a man, a guincafoot necessitated supramalleolar amountation on the metre, the blood does not very probably belong to a none, but as all the nineteen cases have fallen within the last few years except. Wladimnoff's, and consequently have been treated antiseptically, it cannot be said that the danger is less than either in Syme's or Pirogoff's operation. There is no doubt that the fine fronal results are far superior to that of a supramalle. olar amputation even if the patient will always have to wear the Mikukez boot. Consequently it may be at the Pair Faculty of Medicine, died on Thursday, safe to say that osteo plastic resection has already a legitimate place, although perhaps as yet not strictly enough defined, in the surgery of the tarsus

## FOREIGN CORRESPONDENCE

## LETTER FROM PARIS

PROMERCIA OWN COMMUNICATIONS !

Origin of the Blood, from a Medico legal Point of Frew Death of Professor Bouchardat.

army has published an essay on The Origin of the Blood, from a Medigo legal Point of View. The dit ficulties attending this class of researches are very as a mark of respect great, and the expert is often placed in an awkward predicament when called upon to give his opinion in a court of justice. M. Mareson has endeavored in his essay to facilitate these researches so that the experimay always be ready with a definite reply as to

whether these joints will be able to bear the strain of whether a blood stain was produced by the blood of the weight of the body during walking with the foot a man or an animal. After giving the different in this abnormal position, this patient of course proves, modes of procedure to ascertain this fact, the author nothing as yet. But from the other cases operated states that the great cause of the alteration of fresh upon, in all uincteen, we can conclude that we have blood globules reades in the dampness of the medium the right to expect a useful toot for walking. A partor vehicle in which they are contained, the effect of tient operated upon by Socia, in Basle, is able with which is to prevent the evaporation of the water of out boot the boot devised by Miculia, which I now the plasma. In dired blood, the globule resists for a pass round for inspection or cane to walk, but can much longer time the causes of alteration, no liquid walk all day long and perform a farmer's work in the can regenerate the altered globules. In the mension ration of the globules by the inicroscope, we may of the metatarsal bones and the toes, is considerably metre, but in reality, a variation of this infinitesimal Moreover, in consequence of the great variability of siological state (Hayem), and particularly in a path places the osteo plastic resection superior to the two ological state, (Kelsch, tound them, augmented in volume in impaladism, and Malage, in chlorosia, We find by examining the toot everywhere pandess, according to this last author, the dimensions of the globules are reduced in cancer), the experiments must take a great number of mensurations and then

It is advisable to have at least five series of joinenposterior tibial artery. I had the same apprehension, ations. In operating on dried blood with the higher and changed the incision so as to save one of the of Victory (solution of potash at 30 per cent,) the terminal branches of the last named vessel, namely, conclusions arrived at are as follows: the mean diamthe internal plantar artery. This fear is not un-eter of bematics being superior to Anth part of a according to Mikulicz's description, gangrene of the pig, a dog, a rabbit. Below Alabh part of a milli-The mortality of the operation is as yet, man, but to one of the animals which, after him and the guinea pig, possesses the greatest immber of globules. Below that hot a millimetre the blood does not certainly belong to a man. The author incident ally mentioned that the presence of nuclei can alone permit one to pronounce between the blood of ovipane and that of mammifers.

Dr. Bouchardat, the emment Professor of Hygtene April 8, in the 8oth year of his age. The occupied this chan for thirty four years, from which he had to retire not only on account of his great age, but because he was affected with deatness. He took his degree in 1842 and was soon after promoted to Agrege - He was elected Member of the Academy of Medicine in 1850, and became its President in 1866. His funeral took place in the midst of a large concourse of friends and colleagues, but according to his desire there was no official representation The clust monners were in two sons, one of whom is a Surgeon Major in the French Army, and the other a professor at the School of Pharmacy. The President of the Academy of Medicine at its meet Dr. Masson, Pharmacien major in the French ing, April 14, after having retraced in touching terms the long scientific career of the lamented Protessor, closed the meeting without proceeding any further,

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Memorial Exercises in Honor of Dr. Flint-Pelvic Abscess in the Male-Second Trial of General Shaler-The Vanderbilt Clinic-The "Medical Record" and the Academy of Medicine.

The meeting of the New York County Medical Association, held April 19, was entirely devoted to Dr. P. Brynberg Porter, from Prof. N. S. Davis, of memorial exercises in honor of the late Professor Chicago; Dr. E. M. Moore, of Rochester, President lege Commencement last month, still remained in County Association. A large number of other simiposition, and the attendance of members was much lar letters were received from members, as well as larger than at any previous meeting of the Association; being considerably larger than even that at the will, no doubt, publish an official account of this meeting on the eve of the last annual session of the memorial meeting, and in it will be included series of State Association, in November, when Dr. Flint resolutions passed by the Association of Physicians, read the admirable paper on The Elements of Prog- Louisville, Kentucky, and by the Erie County Mednosis in Bright's Disease, which has since attracted ical Society, which were not received in time for the so much attention.

It was deemed advisable to have brief addresses from as many of his associates, friends and former April 15, Dr. T. Herring Burchard read a paper on pupils as possible in the time at command, rather Pelvic Abscess in the Male. Dr. Burchard has met than a lengthened eulogy by some specially selected with five cases of pelvic abscess in his personal expememorialist; and the plan proved a most excellent rience, and he gave the detailed histories of all of one. The interest was thus maintained to the very them in his paper. That of the last and most interlast; while the high attainments, illustrious services esting one, however, will suffice here: Peter Murand noble character of the departed master were phy, aged 28, married, a porter by occupation, always presented in a more striking and varied manner, as temperate, and robust and strong up to March. 1882, viewed from so many different stand-points, than at which time he was suddenly seized, after some could possibly have been accomplished by any one unusual exertion, with sharp pains in the right iliac

had been drawn up by a special committee, consist- of his operation. ing of the Vice-President, Dr. John Shrady, and Drs. E. S. F. Arnold and J. W. S. Gouley, were read by dital, suffering from the same intense pain. Poulthe Chairman, Dr. Shrady. The first, after the read-tices were applied, but no suppuration occurred. In ing of the resolutions, to pay his tribute of affection the following August, after several unsuccessful aspi-and respect to the memory of Dr. Flint, was Profestrations, an abscess of the right lumbar region, midsor Lewis A. Sayre, who spoke in a most feeling way between the iliac crest and ribs, was evacuated manner, and in the course of his remarks alluded to by the late Prof. James A. Little. The case was one of his traits which was especially worthy of imi- regarded by him as one of perityphlytic abscess. At tation by all. This was the lifelong habit of always this time the patient's condition was very bad; with setting about, at once, whatever he had to do; so severe, steady pain deep in the pelvis and perineum, that nothing ever came from his pen which was not and darting pains extending through the rectum into complete and perfect in every detail. In illustration the right testicle and down the sciatics. There was of this, he stated that since Dr. Flint's death, there also priapism, with involuntary nocturnal emissions. had been found among his papers the address which In December, a second abscess was opened by Dr. he was to have delivered in August next before the Little. Although suffering more or less constant British Medical Association, and which, even at this pain, his health improved during the winter; but in early date, was already entirely finished. When this fact was known to the authorities of the Association, the side and on the body of the ilium. These were he had no doubt that they would request a copy of it also opened. In August and September he had for publication with the proceedings of the year's the pain and constitutional disturbance of forming session.

Among the others by whom addresses were made pus.

DOMESTIC CORRESPONDENCE were the following:-Prof. Wm. H. Welch, of the Johns Hopkins University, Baltimore; Dr. T. R. Varich, of Jersey City, Surgeon-General of the State of New Jersey; and Drs. E. G. Janeway, J. Lewis Smith, J. D. Bryant, F. E. Dennis, Isaac E. Taylor, Ellsworth Eliot, H. M. Biggs, and George L. Peabody, of the Association. A touching tribute was also paid by Prof. Frank H. Hamilton, who was associated with Dr. Flint and the late Dr. James P. White in founding the Buffalo Medical College.

Letters of regret were then read by the Secretary, Austin Flint, and it proved a most impressive and of the New York State Medical Association; Dr. E. interesting occasion. The mourning decorations 1). Ferguson, of Troy, Secretary of the Association; which had been put up in the lecture hall of the Dr. Joseph R. Hutchinson, of Brooklyn, and Dr. Carnegie Laboratory at the time of the Bellevue Col. Wm. Detmold, of this city, the first President of the invited guests from a distance. The Association meeting.

At the meeting of the Academy of Medicine on fossa, which lasted thirty hours. This paroxysm ter-The exercises were opened by a carefully pre-minated in a dull, heavy pain, which extended across pared and effective address by the President, Dr. the hypogastrium, into the left iliac region, and which Charles A. Leale; after which the resolutions, which continued with greater or less severity up to the time

In June, 1884, he was admitted to St. Luke's Hosabscesses, but five incisions failed in giving vent to

process was opened, and carious bone detected, oakum. A superficial dressing of borated cotton This was removed by gouge and augur. The super- was made over all. tially closed.

October 29. tions failed to throw light on the case.

formed within the pelvis, but instead of discharging was felt that something effective ought to be done, of Health. and yet there was nothing tangible upon which to On April 24th the corner-stone of the new building

Operation.-St. Elizabeth's Hospital, February 1, \$1,000,000. 1886; Drs. H. Marion Sims, Mandeville, and C. W. detected. The sinus having been laid open, its efficient and earnest supporters. walls, which were almost cartilaginous, were thor- Even in the best regulated folds black sheep are

October 5, patient's health evidently failing. All rubber, eight inches long, were carried directly to the old pains have returned. A careful examination, the bottom of the sinus, and the whole thoroughly under ether, was made; but, owing to the thickness irrigated with a solution of the bichloride of mercury, of the abdominal walls from fat, this was very unsat- I to 2000. The abdominal wound was now closed isfactory. Rectal examination revealed nothing. A with deep and superficial sutures. The incision leadlocalized phlegmon over the ilium, two inches below ing through the bone was kept open, and dressed and to the front of the posterior superior spinous from the bottom with iodoform and bichlorodized

ficial caries led into a larger abscess cavity in the The patient rallied nicely. On the third day the ilium, and this in turn communicated, by a direct temperature rose to 1021 and the pulse to 120, and opening, with the iliac fossa. The finger, introduced there was a very slight circumscribed peritonitis. On through the bone, could detect nothing abnormal the sixth day the patient's temperature was practiwithin the abdomen. The carious bone being thor- cally normal, and the discharge from the tubes scarceoughly removed, a lint of bichloridized oakum was ly amounted to half a drachm. After this the tubes introduced through the ilium, and the wound par- were shortened gradually, and at the end of three weeks were entirely removed; firm granulations hav-After great pain, referred to the ing filled up the cavity of the sinus. The opening hypogastrium, right iliac region and right testicle, through the bone has likewise been filled in with new another abscess formed, and discharged through the tissue, and is now closed. Dr. Burchard then said opening in the bone. The source of this could not that he had the pleasure of exhibiting the patient to be detected, and both external and rectal examination the Academy in better health than he has enjoyed for years; and he certainly presented all the appear-In the early part of December another abscess ances of a man in robust physical condition.

In the second trial of General Shaler for bribery through the opening in the ilium, pointed over the in connection with the selection of an armory site crest, and was evacuated at this point. The patient's for one of the militia regiments, the jury has again condition was now critical in the extreme. He was disagreed, this time standing four for conviction and rapidly losing strength and flesh, and was being worn eight for acquittal. On the 26th of April is set down out with constant pain and suppuration; while albu- General Shaler's trial before the Mayor, on a charge men, with hyaline casts appeared in his urine. It of malfeasance in office as President of the Board

found a diagnosis, beyond the fact that at irregular of the College of Physicians and Surgeons was laid intervals abscesses in the right iliac region would by Mr. George W. Vanderbilt, the youngest son of form and discharge. Repeated examinations were the dead millionaire, Mr. Chauncey M. Depew denegative in results; but the indications clearly were livering the address. The four sons have just doto open the abdominal cavity (of course employing nated \$250,000 for the erection and maintenance of every antiseptic precaution), and, if possible, by a building for clinical purposes, to be known as the s ripping up the peritoneum from the right iliac "Vanderbilt Clinic," which makes the total gifts of fossa, to seek and remove the source of irritation.

P. S .- The New York Medical Record, it will be Stimson, assisting, An incision was made commenc- seen, has seen fit to take your correspondent to task ing just above and posterior to the posterior inferior for the reference made in his last letter to the recent spinous process of the ilium, and following the bone changes in the constitution and by laws of the New downwards for a distance of five inches. The dis- York Academy of Medicine, which it thinks "will section was carried through the abdominal muscles, be looked upon as unwise and unnecessary, if not and the peritoneum exposed. This Dr. Burchard actually malicious." Certainly nothing was further endeavored to detach from the subjacent fascia, but from his thoughts than any idea of maliciousness so firmly adhered was it that, in spite of very gentle when he wrote it; but it did seem right to him manipulation, it tore. A flat sponge was introduced that when a body of such high standing and introduced that when a body of such high standing and introduced that when a tody of such high standing and introduced that when a tody of such high standing and introduced with the hand a thorough exploration was made. cuts itself off, to a certain extent at least, from Almost immediately a mass of adhesions was found the profession throughout the country, this fact should that led to an abscess cavity which occupied the pos- be known to the profession at large. The course terior half of the fossa, and extended, like a great which the Academy has pursued, it need hardly be sinus, directly from the ilium on the line of the pelvis said, has been most painful to many of those who and down into its cavity. No dead bone could be have hitherto been among its best friends and most

oughly revivified with a dull curette. The sinus apt to be found; but if one is to accept the statethrough the bone was likewise curetted, and some ments of the Record, the Fellows of the Academy carious bone removed. Two drainage-tubes of soft are all very much in the blissful condition of certain

perfectionists in some of the religious bodies, who cal, botanical and pharmaceutical terms to be found claim to have attained such a state of sanctity that in all the general dictionaries. A prominent journal, they cannot commit any sin. It is not to be sup-in reviewing Barnes's book, said that his additions posed that the Academy would take into its fellow-were "not particularly or at all scientific." In many ship any one who was known to be a thief and black- cases, after giving certain of my words and definileg; but if it should afterwards be found that any of tions, he has repeated the same word and given anits Fellows were of such a character, it would certainly other combination of definitions, evidently taken seem desirable that it should have some means for from the common dictionaries. The remark that getting rid of the offending members. As to whether "Barnes's dictionary contains errors in words that any irregular practitioner will ever be received by it, are not in Cutter's dictionary at all, and other errors (against which, as has been pointed out, there is no in words that are correctly given by Cutter," is very restriction whatever in the constitution or by-laws), true, and many of them present evidence that Barnes seems likely to depend on the men composing the was not capable of writing an original work of the committee on admissions hereafter. When the ap- kind. plication of a candidate has been favorably acted. I assert that no "injustice in regard to this matter date of the kind alluded to.

Since the last letter was written a case has become known which would not have been referred to at all stated that the firm who imported Barnes's book volin this correspondence except for the strictures of untarily, and without investigation, returned their the Record, but which furnishes a somewhat striking importation to England. This suppression of Barnes's commentary on some of the statements made in that book did not take place until after a considerable letter. A Fellow of the Academy having done some correspondence, and a suit was about to be comaction (which need not be mentioned here) believed menced. My counsel had prepared overwhelming to be worthy of censure a member of the Council, proof that Barnes had pirated the whole of my book. a gentleman of refinement and great eminence in the I wrote to this effect to all the prominent British profession, was asked to remonstrate with him in rejournals of medicine, but, with one exception, they gard to the supposed offence; but when the latter refused to publish. So much for simple justice to attempted to do this, on more than one occasion, if one not in the country to defend himself. the writer is correctly informed, he was coolly greet-ed with the polite advice to "go to h—II." Now claimed in the preface, and was the product of years what can the Academy do about it? In former of hard study. To steal such a work is to inflict a times the course to be pursued would have been suf- much greater injury than the reprinting of an essay ficiently plain, and there would have been no hesita- or work of that nature. I should not have even protion in taking suitable action.

#### INJUSTICE TO DR. BARNES.

TO THE EDITOR OF THE JOURNAL:

Dear Sir: - My attention was to-day called to an editorial in your journal of the 10th inst., under the THE ADDRESS IN MEDICINE BEFORE THE heading of "Injustice to Fancourt Barnes," which does me great injustice. I therefore request that To the Editor of the Journal: you give this note equal prominence in an early issue.

review, and the fact that Barnes's book contains a editorial statement in connection with the selection greater number of words than mine, are claimed as of Dr. J. S. Billings, of the Army, "to deliver the proofs that the reviewer was not familiar with either address in Medicine before the next meeting of the book. A careful comparison shows that Dr. Barnes British Medical Association in place of the late Probook. A careful conjugation shows that Dr. Bathes british Medical Association in place of the late Procepied all of my words and definitions, with one or fessor Austin Flint," that "the well known ability of two exceptions. Most of the errors copied could not Dr. Billings and his familiarity with general medical have been made so continuously and peculiarly alike literature, makes the selection one eminently proper." had not the printer of Barnes's book used my printed. The ability of Dr. Billings is, of course, well known, page as part of his copy. Such uniform, exact and and his familiarity with general medical literature is constant repetition of definitions, punctuation, etc., unquestioned, but a great many have presumed to in their sequence throughout several thousand words doubt whether the selection of a bibliothecary, howcould have occurred in no other way. Barnes's book, ever noted and conspicuous, who has often disclaimed contains very few strictly medical terms not found in any practical acquaintance with disease, who has mine. The mass of his padding consists of chemi- probably not written a prescription for twenty years,

upon by this committee, it is an almost unprecedent- has been done to Dr. Barnes in this country," and ed thing for the applicant to be blackballed; and, in that this claim of piracy is not a fable; neither is the growing laxity of feeling as regards irregulars in Dr. Barnes's book superior to mine, as a comparison this community, it is not by any means inconceivable of the two books will show any person capable of that at some time a committee on admissions may judging which is most reliable. I cannot expect to give its endorsement to the application of a candibe afforded the space for citing the many facts at my disposal in proof.

In the concluding paragraph of your editorial it is

tested had it been simply reprinted in England as "Cutter's Dictionary." I have no quarrel with any one, but I shall certainly protect my rights.

Respectfully, G. R. CUTTER. 52 Bedford Ave., Brooklyn, N. Y., April 17, 1886.

## BRITISH ASSOCIATION.

Dear Sir:- I hope you will not take it amiss if an My name having been misprinted "Cutler" in the humble reader of The Journal dissents from your and who would not presume to undertake the charge of a sick person, is one "eminently proper," while as of the uterus generally, on the functions of digessuch famous pathologists live as Henry I. Bowditch, tion, is perhaps the most marked, the most important, Francis Delafield, William Pepper, James Tyson, James T. Whittaker, Wm. H. Welch, Paimer Howard, N. S. Davis, and a dozen more. If the British tween the uterus and the stemach in the physiological Medical Association does not know of these men, the British Medical Association has much to learn.

#### CAUTERIZATION OF THE CERVIX UTERI, A REMEDY FOR THE OBSTINATE VOMIT-ING OF PREGNANCY.

To the Editor of the Journal:

Dear Sir :- In THE JOURNAL of to-day, April 24, is a letter from Dr. M. O. Jones, of this city, taking Dr. Jos. Taber Johnson, of Washington, D. C., to task for forgetting to credit the writer with originating the treatment by nitrate of silver of the vomiting of pregnancy. It seems Dr. Jones suggested this method to Dr. Sims in 1872. Dr. Sims regarded it as original, wrote in the Lancet concerning it soon afterwards, and gave it the stamp of advanced knowledge. It never struck me that way by reason of the following quotations. In Bennet's work on the Uterus,1 he says:

"The discovery of the frequent existence of inflammation, with or without ulceration, during pregnancy, is one of vital importance, inasmuch as it affords a key to most of the accidents and morbid symptoms of the pregnant period. It appears to have escaped the notice of all the Continental writers —such as Lisfranc, Duparcque, etc.—who have recently paid attention to uterine diseases, and no English work or publication on midwifery or the diseases of women contains the most distant allusion even to the possible existence of such disease during the pregnant state." But twenty-four years before this date, in 1840, Bennet says that M. Boys de Loury called his attention to it. And he adds: "I believe that I am authorized to attribute to M. Boys de Loury this important discovery, as I certainly never heard any other practitioner before him allude in the most cursory mannner to the subject, and I am not acquainted even with a hint respecting it in the entire range of medical literature. M. Boys de Loury's discovery was briefly noticed in 1843, by one of his house physicians, M. H. Costilhes, in a thesis sustained before the Paris Faculty of Medicine. M. Costilhes's cursory notice was the only one that had appeared of this pathological fact in any language when the first edition of the present work was published. Since that time I have devoted great attention to the elucidation of inflammatory disease of the cervix and to chronic metritis generally during pregnancy, and have ascertained that they are of frequent occurrence, that they are the keystone to the diseases of the pregnant state, and the most general cause of laborious pregnancy, obstinate sickness, moles, abortions, miscarriages, and hæmorrhage. The results of my researches on these points as contained in the present chapter, were read before the physiological Section of the British Association at Southampton on September 11, 1846.

-1 Sixth edition, 1864. pp. 144, 145.

"The influence of inflammation of the uterine neck," Francis Minot, Albert L. Loomis, Henry W. Draper, and the most common of all the sympathetic relations which we have to study; nor can we be surprised, when we consider how intimate the connection is bestate. As an illustration of this physiological connection, I would again recall to mind the sickness that generally accompanies the increased vital activity of the uterus during the first months of pregnancy." (Page 104.)

"In some cases vomiting constantly takes place after food, and even at other times. When this is the case, the body of the uterus is often implicated, and all remedies may fail permanently to arrest the vomiting until the uterine disease be subdued." (Page 107.)

"The dyspeptic symptoms observed in obstinate leucorrhoea are nearly invariably the result of the sympathetic reaction on the stomach of the inflammatory disease of the uterine neck" (p. 103). These quotations are from the chapter dealing with married women. Now let us see what Bennet says of the

"The only caustic that can be used with advantage in inflammation of the cervix without ulceration or hypertrophy is the nitrate of silver, which acts, however, more as an astringent than as a caustic" (p. 237).

"The existence of pregnancy, so far from being an obstacle to the local treatment of inflammatory and ulcerative disease of the uterine neck, is a strong reason why it should be adopted and carried out without delay." . . . "During the first six or seven months, . . . it is the absolute duty of the medical attendant to treat the disease, as by curing the ulceration, or even by modifying its irritability, not only is much suffering spared to the patient, but abortion is often prevented. The local treatment must consist in astringent injections and cauterization with nitrate of silver, . . . " (p. 296).

Again: "This has emboldened me to apply them (the above remodies) in the early stages of pregnancy in some females in whom repeated abortions had occurred, with a view to diminish congestion and to carry on gestation. I have done this repeatedly with suc-

cess." (p. 297.)

It is perfectly clear that Bennet treated the congested cervix of the pregnant female to overcome the sympathetic irregularities of the digestive organs, and to use his own language, "I have devoted great attention to the elucidation of inflammatory disease of the cervix and to chronic metritis generally during pregnancy, and have ascertained that they are of frequent occurrence, that they are the keystone to the diseases of the pregnant state, and the most general cause of laborious pregnancy, obstinate sickness," etc. Who can fail to see that the pathology of this matter belongs to M. Boys de Loury, stated by him in 1840, and that Bennet laid down the treatment in 1846 at Southampton, twenty-six years before Dr. Jones presented it to Dr. Sims at Chicago as a new idea. Very R. Stansbury Sutton. M.D. 410 Penn Ave., Pittsburgh, Pa.

## BOOK REVIEWS.

THE ESSENTIALS OF HISTOLOGY, DESCRIPTIVE AND PRACTICAL, for the Use of Students. By E. A. SCHÄFER, F.R.S., Professor of Physiology, University College, London, etc. 8vo. Philadelphia: Lea Brothers & Co. 1885.

The author of this book is well known, and is recognized as a writer of authority. He has attempted in this volume to supply the student with directions for the microscopical examination of the tissues, at the same time describing the essential facts of the science so as to make a complete elementary text-book on histology.

Each chapter is prefaced by a few paragraphs in be prepared for examination. These are detailed and will enable a student readily to demonstrate all of its regular resident members, and one for every that is essential in the histology of the various tissues additional fraction of more than half that number: and organs. The book is most excellently illustrated. It will undoubtedly be found very useful by many teachers and students in college, as well as by those who are working by themselves and to whom the practical suggestions of the book will be particularly of the Association. useful. Dr. Schäfer is so well known to pathologists and students of histology for his exceedingly careful work and natural abilities, that it seems unnecessary to give any detailed account of his work.

AN ATLAS OF CLINICAL MICROSCOPV. By ALEXAN-DER PEYER, M.D. Translated by A. C. GIRARD, M.D., Assistant-Surgeon U.S. Army. First American from second German edition, with additions. Societies. Ninety Plates, with 103 Illustrations, Chromo-Lithographs. New York: D. Appleton & Co.

This book is handsomely illustrated by well drawn original figures. It covers a field that has not been perfectly covered before. The aim of the work is to furnish illustrations of the objects seen in the various secretions, excretions and exudates commonly examined for clinical purposes. The text is brief and will serve chiefly as a guide to rather than as a full explanation of the objects illustrated. The scope of Dr. S. C. Gordon, Portland, Me., Chairman; Dr. J. F. the work can be better comprehended by quoting the titles of its main divisions: 1. Microscopic Examination of the Blood; 2. Of the Milk; 3. Of the wankee, Wis., Chairman; Dr H. H. Mudd, St. Louis, Urine; 4. Of the Sputum; 5. Of the Stool; 6. Of Mo., Seerstary, the Contents of the Stomach; 7. Of Fluid from Abdominal Tumors; 8. Of Secretions from the Female Ill., Chairman; Dr. F. E. Daniel, Austin, Texas, Secy. Sexual Organs; 9. Various Micro-organisms Provok-For example, from urinary sediments the various St. Paul, Minn., Secretary. forms of crystalline bodies are shown, blood, pus, epithelium, spermatozoa, and so forth. The draw-ville, Ark., Secretary. ings, with the exception of only two plates, are original with the author. A reference book of this kind Chicago, Ill., Chairman; Dr. A. E. Baldwin, Chicago, has long been needed by students of clinical medi- Ill., Sceretary. cine, and this one will certainly be found useful. It one who is familiar with the subject.

## ASSOCIATION ITEMS.

#### AMERICAN MEDICAL ASSOCIATION.

The Thirty-seventh Annual Session will be held in St. Louis, Mo., on Tuesday, Wednesday, Thursday and Friday, May 4, 5, 6 and 7, commencing on Tuesday at II A.M.

The delegates shall receive their appointment from permanently organized State Medical Societies and such County and District Medical Societies as are recognized by representation in their respective State Societies, and from the Medical Department of the Army and Navy, and the Marine Hospital Service of the United States.

Each State, County, and District Medical Society which directions are given as to how specimens must entitled to representation shall have the privilege of sending to the Association one delegate for every ten Provided, however, that the number of delegates for any particular State, territory, county, city or town shall not exceed the ratio of one in ten of the resident physicians who may have signed the Code of Ethics

Secretaries of Medical Societies, as above designated, are earnestly requested to forward, at once, lists of their delegates.

Also, that the Permanent Secretary may be enabled to erase from the roll the names of those who have forfeited their membership, the Secretaries are, by special resolution, requested to send to him, annually, a corrected list of the membership of their respective

#### SECTIONS

"The Chairman of the several Sections shall prepare and read, in the general sessions of the Association, papers on the advances and discoveries of the past year in the branches of science included in their . ."-By-Laws, Art. 11, Sec. 4. respective Sections.

Practice of Medicine, Materia, Medica and Physiology.-Dr. J. T. Whittaker, Cincinnati, Ohio, Chairman; Dr. B. L. Coleman, Lexington, Ky., Secretary.

Obstetrics and Diseases of Women and Children .-Y. Paine, Galveston, Texas. Secretary.

Surgery and Anatomy. - Dr. Nicholas Senn, Mil-

State Medicine.-Dr. John H. Rauch, Springfield,

Ophthalmology, Otology, Laryngology. - Dr. Eugene ing Disease. Each subject is considered in detail. Smith, Detroit, Mich., Chairman; Dr. J. F. Fulton,

Diseases of Children .- Dr. W. D. Haggard, Nashtube casts, mucus, all forms of cylinder or tube casts, ville, Tenn., Chairman; Dr. W. B. Lawrence, Bates-

Oral and Dental Surgerv.-Dr. John S. Marshall,

A member desiring to read a paper before a Secis fortunate that the translation has been made by tion should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the

one month before the meeting.—Bv-Laws.

wood, St. Louis, Missouri, Chairman.

## AMENDMENTS TO BY-LAWS.

By Dr. Foster Pratt, Mich .- Each Section shall nominate its Chairman and Secretary-all other nomi nations to be made, as now, by the nominating Committee.

By Dr. I. N. Quimby, N. J .- Create a new Section, to be known as the Section on Medical Juris-WM. B. ATKINSON, M.D., prudence.

Permanent Secretary. 1400 Pine St., S. W. cor. Broad, Philadelphia.

PROGRAMME OF SURGICAL SECTION.—Tuesday.— Blood Tumors of the Cranium in Communication with the Intra-Cranial Venous Circulation, especially the Sinuses of the Dura Mater"; Prof. Moses Gunn. of Chicago, "On the Value of an Attempt at Enucleation in a Neuroma which seems to demand Resection of the Nerve, illustrated by a case"; Dr. B. A. Watson, of Jersey City, "Fibre or Spindle-celled Sarcomatous Tumors, with the report of a case and presentation of the specimen"; Dr. Joseph Ranssohoff, of Cincinnati, "Treatment of Thoracic Aneurisms by Introduction of Wire, with a case"; Professor E. Andrews, of Chicago, "Incisions and velope instead of applying individually. Drainage of Lumbar Abscesses.

Wednesday.-Prof. Christian Fenger, of Chicago, "Osteoplastic Resection of the Foot; Excision Washington City, D. C., by Chesapeake & Ohio Railof the Heel"; Dr. W. T. Belfield, of Chicago, "Digital Exploration of the Bladder, with report of twelve cases, including five Vesical Tumors and two cases of Prostatotomy"; Dr. Robert Newman, of New York, "Galvano-Caustic in Diseases of the Prostrate Bladder and Urethra"; Prof. E. E. Glover, of Terre Haute, Ind., "The Treatment of Anal Fistula associated with Phthisis"; Dr. J. T. Jelks, of Hot Springs, Ark.. "Stricture of the Urethra."

Thursday. - Dr. Theo. A. McGraw, of Detroit, "Experimental Researches with reference to Sutures of the Intestines"; Prof. S. McF. Gaston, of Atlanta, "Surgical Relations of the Ilio-Cæcal Region": Dr. Henry H. Smith, of Philadelphia, "What is the Proper Treatment of Penetrating Wounds of the Abdomen," being the opening remarks on the discussion of the subject, with discussion by Dr. B. A. Watson, of Jersey City, Dr. J. McF. Gaston, of Atlanta, Dr. E. H. Gregory, of St. Louis, and Dr. H. H. Mudd, of St. Louis; Dr. Henry O. Marcy, of Boston, "Hernia and the Best Method of Cure"; Dr. R. Harvey Reed, of Mansfield, Ohio, "Some of the Complications in Strangulated Hernia."

RAILWAY CERTIFICATES TO THE ASSOCIATION MEETING-Special Notice.-To delegates and oth ers who will attend the meeting of the American Medical Association, St. Louis, May 4 to 8: Parties located east of Buffalo, Niagara Falls, Pittsburgh and Parkersburg, will apply by mail to Secretary of Trunk Line Committee, 346 Broadway, N. Y., for certificates. Parties west of points named above and east

Chairman of the Committee of Arrangements, at least of the Mississippi River, and north of the Ohio River, will apply to Geo. H. Daniels, Commissioner C. P. Committee of Arrangements .- Dr. Le Grand At- C., Chicago, Ill., for certificates. Parties south of the Ohio River, and east of the Mississippi River, will apply to M. Slaughter, Commissioner, Richmond, Va. Parties from Missouri River points, and from Chicago, will apply to E. P. Wilson, Arbitrator, Chicago. Points in the west and local points on the lines centering in St. Louis, will be arranged for, by agent at starting point or upon arrival here.

Delegates in making application to the above named persons for a certificate, must not forget to enclose a two cent stamp to pay postage on the return letter enclosing to them the certificate. This must be done to insure the certificate being sent. Any delegate who fails, after making every effort, to get Dr. William M. Mastin, of Mobile, Ala., "Venous a certificate in due form, will take a receipt from the ticket agent at the point from which he starts, for amount of full fare paid by him, coming to the meeting; and in this receipt be particular to have named the form and number of ticket, and the road over which he will come. If not directly on one of the lines entering into this arrangement of reduced rates, pay your fare only to it, and then pay your full fare from that point, securing your certificate or receipt as above directed. State, County or City Societies can apply for the number of certificates they may wish, and have the number wanted sent in one en-

Round trip tickets from Chicago, Ill., also from New York (339 Broadway), Richmond, Va., and road, from Philadelphia via Penn. Central and B. & O.

Members of the American Medical Association, or members of any medical societies, who may see the above, will please report it to individual members, or their societies, and try to get a notice of same in their city or county newspaper.

R. M. JORDAN, M.D.,

Chairman Transportation Committee. St Louis, Mo.

RAILWAY FACILITIES TO THE ASSOCIATION MEET-ING .- The regular through trains of the Illinois Central Railroad from Chicago to St. Louis will afford excellent accommodations for delegates who wish to attend the meeting of the American Medical Association at St. Louis the first week in May. The night express, with Pullman sleeping cars, leaves Chicago at 8:30 P.M., and arrives in St. Louis at 7 A.M. The rates are \$7.50.

The rates on the Baltimore and Ohio Railway for those coming from the East and South-east are full fare coming and one-third fare returning.

RAHLROAD FARES .- The Boston & Albany Railroad will, upon application at their office, 232 Washington St., Boston, sell to delegates and their families tickets to St. Louis and return for one and onethird fares for round trip. A parlor car, to run through from Boston to St. Louis, will be attached to the train leaving Boston at 3 P.M., May 1st.

## MISCELLANEOUS.

IN MEMORIAM -- AUSTIN FLINT, M. D., I.L. D.-At a regular meeting of the New York County Med-living. ical Association, held April 19, 1886, the following

was unanimously adopted:

home; and

sal of his many virtues; Therefore, be it

worth;

Resolved, That we recognize in him an author of marvelous industry, who has made his impress on the gratitude of his patients and will ever live in their April 17, 1886. most blessed memories; a consultant who dispensed rich stores of knowledge, ever judging kindly, more mised land of his cherished hopes.

long benediction.

A SANITARY CONVENTION AT KALAMAZOO, MICHI-GAN, under the auspices of the State Board of Health, will be held on Tuesday and Wednesday, June 1 and P.M. and 7:30 P.M.; on the second day at 9 A.M., 2 P.M., and 7:30 P.M.

addresses or papers on subjects of general interest first Presidents, and a member at the time of his pertaining to public health, each paper to be followed death, was a member of the Illinois State Medical

by a discussion of the subject treated.

be present and take part in the discussions. The worth and attainments.

objects of the Convention are the presentation of facts, the comparison of views, and the discussion of methods relating to the prevention of sickness and deaths, and the improvement of the conditions of

Among the subjects which it is expected will be presented and discussed are the following: 1. His-WHEREAS, It has pleased God, in the exercise of tory of Investigations Concerning Micro-organisms, His Divine Will, to remove from the sphere of his and the germ theory of disease. 2. Personal duty nsefulness our esteemed co-worker, Austin Flint, touching prevention of spreading communicable dis-M. D., LL.D., revered abroad, but best loved at ease: (a) From the standpoint of the lawyer; (b)From the standpoint of the clergyman; (c) From WHEREAS, It is but proper that we take to our-the standpoint of the health officer. 3. Disinfection. selves that consolation which comes from the rehear. 4. Sanitary condition of public buildings in Kalamazoo. 5. The diseases incident to poverty. 6. Healthy Resolved, That as an Association to whom he gave Homes. 7. The need of a public hospital in Kalahis latest work, and ever his cherished counsel, we mazoo. For further information address H. B. add our own to the many other testimonials of his Hemenway, M.D., or Rev. M. W. Haynes, Secretaries, Kalamazoo, Michigan.

MEDICAL MISSIONS .- MR. · T. FISHER UNWIN is medical thought of the age, modest and just, but still about to publish a work entitled "Medical Missions: a master of deliberate statement, conscientious in their Place and Power." It is written by the Rev. the recognition of the labors of others, and despising John Lowe, the Secretary of the Edinburgh Medical not the humblest contributor to that science to which Missionary Society, and will contain an introduction he devoted his life; a practitioner of his art without by Sir William Muir. It will also be further embelldevice, zealous for the dignity of his calling, suave, ished with a medallion portrait of Dr. John Aberconsiderate and gentle; one who worthily gained the crombie, the founder of the above Society.-Lancet.

MEDICINES FOR INTERNAL AND EXTERNAL USEcareful of the rights of others than his own, cheery By a notice recently issued in the District of Potsdam and abounding in charity for his brethren; a teacher, in Prussia, it is ordered that the directions to be hand-in-hand with his pupils, analytical, pains-taking, affixed to medicines for internal use shall be written less eager for glory than exactness, ever approachable and always ready with a reason for the faith that bright red paper, on which writing with black ink is was in him; and a man in all the walks of life blame-easily legible. The latter must also be distinctly less, "who hath borne his faculties so meek" and marked "external." An order regulating the color "hath been so clear in his great office," and who, of the paper to be used has existed since 1825, but laboring to the last, hatl. fallen in sight of the pro- its provisions have gradually been transgressed; hence the new regulations. Such regulations as that to And be it also Resolved, That we tender to those which allusion is now made, are scarcely calculated of his own household and kinship our heartfelt sym-to obviate the danger of mishap. Difference in the pathies, knowing well that to his son, his life was a color of paper is useful, so far as it goes; but it appæan of touching affection, and to his widow one peals to the sense of sight alone; and, as we have already urged, it should be substituted or supplemented by an appeal to the sense of touch, by a difference in the configuration of the bottles used respectively for "internal" and "external" medicaments.—British Medical Journal, April 17, 1886.

DEATH OF DR. HIRAM NANCE. - DR. HIRAM NANCE, of Kewanee, Ill., died at his residence in 2, 1886. There will be sessions the first day at 2:00 that place on April 6. He was born in Floyd Co., Ind., in 1822. He graduated at the Missouri Medi-1., and 7:30 P.M. | cal College in 1845. He was one of the founders of At each session of the Convention there will be the Military Tract Medical Society, was one of its Society, and for twenty-five years a member of the The admission to all sessions of this Convention American Medical Association. He was known will be free, and the ladies are cordially invited. The throughout Northern Illinois as a leading practitioninvitation is especially extended to health officers to er, a kind physician, and a man of high personal THE GROCERS' COMPANY AND BIOLOGICAL SCI- through—in other words, waste. 9. The front bars

of invalids; and if he reduces the cost of coals by one-fourth, he will deserve the thanks of all who in which are as follows: 1. As little iron as possible is "Every inspection must include not only a thorough

ENCE.—A city company officially represented at a should be vertical, that ashes may not lodge and look lecture on Physiology is surely a sign of the times. untidy, narrow (perhaps a quarter of an inch in So, too, is a lecture, not on the art of dining, but on thickness), so as not to obstruct heat, and close toa novel and somewhat abstruse physiological research, gether (perhaps three-quarters of an inch apart), so a novel and somewhat abstrace physiological research, getter (perhaps three-quarters of an inter apart), so conducted with funds provided by the company, as to prevent coal and cinders from falling on the The audience which gathered to hear Dr. Wooldridge's hearth. 10. There should be a rim an inch or an lecture at the University of London, on April 13, inch and a half in depth round the lower insertion of contained this unusual element; for in the seat of the vertical bars. 11. The chamber under the fire honor beside the vice-chancellor, were the master and should be closed by a shield or economiser. 12. certain members of the Court of the Grocers' Com-Whenever a fireplace is constructed on these principany, and the furs of city magnates were mingled ples, it must be remembered that a greater body of with the plainer robes of the leaders of the medical heat is accumulated about the hearth than in ordinary world. The occasion therefore, had a special char-fireplaces, and corresponding care taken by an ashacter on this account, but the story which Dr. Wool- pan against heating wooden beams, etc. This ashdridge had to tell had an interest of its own, from the pan should have a double bottom, the space between physiological point of view, and may come to have the two plates being filled with artificial asbestos, slagimportant practical applications in pathology. The wood two inches in thickness. 13. A fireplace on peculiar substance which he has isolated from the this construction must not be put in a party wall blood produces clotting within the vessels, with the most extraordinary rapidity, and it has already been found to be notably increased in quantity under certain diseased conditions. Sir James Paget, in a few well chosen phrases, after the lecture, congratulated the Creative of the control the Grocers' Company on the public spirit which they his audience by showing two small glass bottles conhad shown in expending a thousand a year in the en-taining the small ash residue of the coal burnt in his dowment of research. No immediate practical ap-fireplaces, which consisted not of cinders, but very plication of Dr. Wooldridge's observations was perhaps fine powder. As to the saving of coal, the general possible; but, said Sir James, when a scientific re-manager of the Leeds Infirmary estimates that in that search comes to have a practical application, it institution it amounts to a sixth or 100 tons in the ceases to stand in need of the generosity even of a year. We have only space left to say that from some rich city company.—Brit. Med. Jour., April 17, 1886. observation of Mr. Teale's own fireplaces, and some experience of them, we believe he has got hold of MR. T. PRIDGIN TEALE ON FIREPLACE CONSTRUC- the right principles and in a large measure of the de-TION.—The subject of firegrates may seem one some tails. He was careful with the true candor of a what alien to the surgical mind, but if the studies of scientific man to show how curiously his discoveries Mr. Teale lead to less poisoning of the atmosphere were anticipated last century by that remarkable man by the products of coal consumption, and to greater Count Rumford, who did study medicine, but, unlike warmth of our houses in inclement weather like this. Syme and Teale, drifted into other pursuits and was he will have earned the gratitude of the public and lost to the medical art. - Lancet, February 13, 1886;

SANITARY INSPECTION IN CHICAGO. - On April o these hard times have difficulty in making ends meet. Chief Inspector Genung issued the following order We shall best describe Mr. Teale's views as to the to the City inspectors regarding the inspection of principles of domestic fireplace construction by quot-tenements, and house-to-house inspection of all the ing his rules, which he states with great brevity, and tenant or rental class of dwellings throughout the city:

to be used. 2. The back and sides of the fireplace examination of all the conditions within the houses, should be of brick or fire-brick. 3. The firebrick back but also the condition of the privies, cesspools, yardshould lean over the fire, and not lean away from it. 4. areas, and spaces under the buildings and sidewalks. The bottom of the fire, or grating, should be deep from in fact, every part of any premises where it is possibefore backwards, probably not less than nine inches ble for any thing of an unsanitary character to exist. for a small room, or more than eleven inches for a large It is not enough that you simply point out these unone. 5. The sides or coverings of the fireplace should healthful conditions, but you must also cause them to incline to one another, as the sides of an equilateral be remedied at the earliest possible moment that the triangle. 6. The lean-over at the back should be at law will permit, as in the prompt application of these an angle of 70°. 7. The shape of the grate should remedies lies the whole value of your labors. Your be based on a square described within an equilateral work for the last year exceeded the previous one, as triangle, the size to vary in constant proportion to did all its predecessors; therefore, the present year the side of the square. 8. The slits in the grating, should be no exception to the past, and must surpass or grid, should be narrow, perhaps a quarter of an all others in quantity and quality of work performed. inch for a sitting-room grate and good coal, and three- This can be readily accomplished if each inspector eighths of an inch for a kitchen grate and bad coal. will do his full duty, as nearly all of you are well ac When the slits are larger they allow cinders to fall quainted with all its requirements. Neglect of duty

task-work is not demanded, yet, a reasonable amount as to to the madness have been cut short by the of efficient work will be required from each of you. It is wholly unnecessary to talk further upon this subject, as each of you knows precisely what your duties are, which, if well performed, will give us the best record in this kind of work on this continent." -Sanitary News, April 17, 1886.

THE ASSOCIATION OF SURGEONS OF THE PENNSYL-VANIA COMPANY will hold its seventh annual meeting Paget, Drs. Burdon Sanderson and T. Lauder Brunin Mansfield, Ohio, on Tuesday, May 18, 1886, commencing at 8:30 A.M., standard time. Several inter- committee to inquire into Pasteur's method of innocesting papers are announced.

THE SANITARY CONVENTION, announced last week as a "National Sanitary Convention," to be held in Philadelphia in May, will be held under the auspices of the Pennsylvania State Board of Health; and the circular.

ALUM IN BAKING POWDERS .- In the official report of the Minnesota State board of health, for March, 1886, is a report by Professor J. A. Dodge, of the University of Minnesota, of the analysis of seven samples of baking powder, the computation being made to anhydrous or "burnt" alum, without the water of crystallization. Of the seven samples all contained alum, the amount ranging from 33 to 65 per cent. Several analyses of "Snow Flake" and "Royal" baking powders have shown them to be entirely free from alum. Prof. J. S. Wood (Sixth Report Mass. State Board of Health) says: "The competition existing among manufactures of the better brands of baking powders, insures purity to a considerable extent; but the numerous cheap articles, the sale of which is promoted by the presentation of cups and saucers, tin spoons and other table ware; chromos, etc., are always suspicious and should be avoided on general principles. The cheaper baking powders are more likely to contain alum than cream of tartar. The latter substance is acid salt, which is most commonly used in the manufacture of the better brands. The alum powders are condemned as unwholesome since the weight of evidence on the subject is to the effect that alum is not a proper substance to be used in baking bread."

PROFESSOR E. G. JANEWAY has been appointed to the Chair occupied by the late Dr. Flint. No more fitting appointment could have been made. He will prove a most able successor to an extraordinarily able teacher.

M. Chevreul, "Doyen des Etudiants," the illustrious chemist and Academician, and the various learned societies of France propose to have a public demonstration in honor of the event.

MORE PATIENTS FOR PASTEUR.-The towns of Pullman and Kensington have sent three or four patients to Pasteur for prophylactic treatment against hydrophobia. It was not entirely certain that the

and incompetency will not be tolerated, and while dog which bit the persons was mad, and all inquiries shooting of the dog.

> Professor Ollier.—A cable report announces the death of Professor Ollier, the distinguished surgeon, of Lyons. The name is incorrectly spelled in the report, and it is sincerely to be hoped that the report is untrue.

> THE HYDROPHOBIA COMMISSION. - Sir James ton, and Sir Henry Roscoe, M. P., will serve on the ulation for hydrophobia.

THE Academy of Medicine of Rome will send a delegate to Paris, to study Pasteur's method, of innoculation, and it is said that the German Government will send Drs. Koch and Virchow for the same purword National was inadvertently printed on the pose. Archduke Charles Theodore, of Bavaria, a practising physician, will also go to Paris, to study Pasteur's method.

> DR. EDWARD FOURNIÉ, the distinguished laryngologist and aurist, and for a long time Director of the National Asylum for the Deaf and Dumb of France, and Editor of the Revue Medicale, died on March 24, aged fifty-three years.

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM APRIL 17, 1886, TO APRIL 23, 1886.

> Major M. K. Taylor, Surgeon, granted one month's leave of absence, on surgeon's certificate of disability, with permission to leave the limits of the Department. (S. O. 39, Dept. Mo., April 16, 1886.)

> Capt. Win. W. Gray, Asst. Surgeon, ordered to Ft. Maginnis, M. T. Capt. Ezra Woodruff, Asst. Surgeon, ordered to Ft. Missoula, M. T.

First Lieut. Reuben L. Robertson, Asst. Surgeon, ordered for temporary duty at Ft. Snelling, Minn. (S. O. 33, Dept. East, April 15, 1886.)

First Lieut. Philip G. Wales, Asst. Surgeon, granted leave of absence for one month. (S. O. 56, Dept. Columbia, April S, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U.S. NAVY, DURING THE WEEK ENDING APRIL 24, 1886.

Lovering, P. A., Past Asst. Surgeon, ordered to Navy Yard, New York.

Biddle, Clement, P. A. Surgeon, detached from "Monocacy,"

ordered home and wait orders.

Ames, H. E., P. A. Surgeon, detached from Navy Yard, New York, and ordered to "Monocacy."

Crawford, M. H., P. A. Surgeon, ordered to Naval Hospital

Hord, W. T., Medical Director, U. S. N., and Medical Inspector J. C. Spear, U. S. N., delegates to the meeting of the American Medical Association to be held at St. Louis on May 5, 1886.

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S. MARINE HOSPITAL SERVICE FOR THE WEEK ENDED APRIL 24.

Long, W. H., Surgeon, granted leave of absence for seven days.

April 24, 1886. Banks, C. E., Passed Asst. Surgeon, granted leave of absence

for ten days. April 20, 1886. Armstrong, S. T., Passed Asst. Surgeon, granted leave of absence for five days. April 20, 1886.

# Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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CHICAGO, MAY 8, 1886.

No. 19.

## THE PRESIDENT'S ADDRESS.

Delivered before the Thirty-Seventh Annual Meeting of the American Medical Association. Tuesday, May 4, 1886.

> BY WILLIAM BRODIE, M. D., OF DETROIT, MICH.

GENTLEMEN OF THE AMERICAN MEDICAL ASSO-CIATION:-With great pleasure I congratulate you on your coming together to renew old friendships, to make further acquaintances, and to add to the genealso in theirs.

We have reason to be thankful to the Supreme Ruler of the universe that no epidemic disease has tions, that a general state of health has existed. We have also to be thankful that so many have been spared to again meet in council and demonstrate our in 1848, as a delegate from the Medical Society of vitality as an association. Yet with all these blessings showered upon us, Death has been within our elevation as president, in 1882, he was in almost conranks, and some of our honored ones have yielded stant attendance upon its meetings and was always to his sceptre. It is, therefore, with sadness that I one of its firmest supporters. refer to the decease of Drs. W. K. Bowling, of Nashville, Tenn., John L. Atlee, of Lancaster, Penn., and from the Most High, and he considered this Associa-Austin Flint, Sen., of New York City, during the past year, ex-Presidents of this Association.

Dr. Bowling first identified himself with the Asso- the practice of medicine in his native town, where he ciation in 1853, and from that time to his death was resided until his death, October, 1885. one of its firmest friends. In 1851 he founded the "Nashville Journal of Medicine and Surgery," which medicine he achieved his reputation. He was promhe sustained for a quarter of a century. The same inent as one of the pioneers in this country for the year he assisted in founding the Medical Department successful operation of ovariotomy. of the University of Nashville, and was elected Pro- entitles his memory to a grateful recognition by the fessor of Practice and Institutes of Medicine. American medical profession. My first acquaintance Deeply interested in public education, in 1853 he with him began in 1856, when he took an active delivered the oration upon the occasion of laying the interest as a delegate from his native city. He was corner-stone of the first public school building in a tall, slender-looking man, with a clear and express-Nashville. In 1856 he was elected Third Vice Pressive countenance, indicative of firmness and confiident of this Association. In 1861, he was sent as dence in the truth of his convictions, ardent in the peace ambassador from the State of Tennessee to pursuit of knowledge; he was neither obsequious to the Governor and Legislature of Kentucky. In men nor submissive to opinions which he thought 1867 he was elected First Vice President; in 1873, hostile to the best interests of his profession. He President of the Association of Medical Editors, and was opposed to anything that savored of quackery, in 1874, President of the American Medical Asso- and believed that medicine was a science, and based ciation.

His contributions to medical literature are to be found in the journal of which he was editor. He was never negative, but always positive in the views and opinions he advanced. In 1876, he was appointed by his State a member of the International Medical Congress of 1876, which met in Philadelphia.

As an editor, it was said of him, he never kept his printer waiting for copy or money, and the greatest living medical critic said of him in his journal: "A man of genius as well as learning, of the true poetic temperament, he has written some of the most brilliant articles in our medical annals."

He was a scholarly man and a beloved physician. As a teacher he was worshipped by his classes, and ral storehouse of medical information, thus demon- when declining years warned him of his approaching strating to our fellow-citizens that the medical pro- end, he retired to his summer home, Monteagle, in fession are not only interested in its own welfare, but the Cumberland mountains, for rest and recreation. But so devoted was he to his profession that the sufferings of a little child appealed to his benevolent heart and was his last patient. He died as he had devastated our land, and, with but few local excep- lived, a noble, generous-hearted man, loving his profession and his God.

John Light Atlee: We find his name first registered the State of Pennsylvania. From that time to his

The code of ethics was to him as an injunction tion as the embodiment of perfection.

In 1820, at the age of 21 years, he commenced

Surgery was his element, and in this department of upon fundamental principles.

term, taking an interest in every department.

his large consulting practice.

He left a record of 2,125 important surgical operasions, and attended 3,264 cases of parturition, all independent of hospital or college connection, and

were exclusively private.

His practice embraced a period of 65 years, and to strangers as a man of only threescore years and well be said, "To die is noble." ten. Of him it can be said, correct business habits enabled him to accumulate a handsome fortune. At fession are fast fading away. The seats they have so the same time, he did a large amount of unrequited honorably filled in this Association are becoming and benevolent labor. Not unmindful of his honor vacant-may we indulge the hope, to be again filled as a man, he never sought to enhance his own popu- by those of the present, who will so well represent o which every honorable physician is justly entitled.

Dr. Atlee was a constant and devoted member of upon deserving merit. the Episcopal church, and adorned the doctrine he professed with reverent acknowledgment and an like as a shock of corn cometh in its season."

Austin Flint, Sen., died March 13, 1886, at his resipresent as a delegate from the Erie County Medical entirely different object in view.1 Society of New York, at the initial meeting in 1847.

papers to the Association. Among the most prominent were those on Practical Medicine, Materia Disease, Clinical Study of Heart Sounds, Pathology national Medical Congress of 1876, in Philadelphia, and his address as President of the Association, in 1884, were especially able. In the latter address he presented the suggestion of inviting the Ninth International Medical Congress to meet in this country, at its Capitol, Washington.

laborer in the field of medical science. His reputatation as a teacher and author was world-wide. their constituents, elevated him to the position of the study of medicine.

true gentleman.

ln his death we have lost a bright star, and the volume.

He was a physician in the widest sense of the International Medical Congress, for which he was selected (I may say unanimously) as its presiding He had the confidence of the profession in his officer, must mourn his sudden demise. Few men home and the State of Pennsylvania, as evinced by have been so justly eminent and yet so widely beloved and admired. His works are the expression of his experience and observation, and have been received by his professional brethren, not only at home, but abroad, as standard authority. The British Medical Association was honored by his acceptance of their invitation to deliver the address on continued till a few days before his death. Though Medicine at their next meeting, thus demonstrating advanced to his 86th year, he retained the vigor of the appreciation with which he was held abroad. manhood to such a remarkable degree as to appear With such a reputation as he had achieved, it may

The past generation of the great men of our proarity by depreciating that remuneration for services their honor and professional integrity, that future generations may say of them, their mantle has fallen

It is my purpose in addressing you at this time to abiding faith. He came to his "grave in full age, confine myself chiefly to matters pertaining to the progress, interest and welfare of this Association. Although I may seem to tread in the footsteps of my dence in New York City, of cerebral apoplexy. He predecessor, Dr. Flint, in his address at Washington. was one of the founders of the Association, being and the subject may seem familiar, yet I have an

When the first National meeting of the profession, He was then appointed one of the committee under the call of the New York State Medical Soci-"Upon a uniform and elevated standard of the ety, was held in the city of New York, May 5, 1846, requirements for the Degree of Doctor of Medicine Dr. I. Hays, of Philadelphia, moved, and it was reby all the Medical Schools of the United States." solved, "That it is expedient for the medical profession of the United States to institute a National resolutions appended, with only one slight amend- Medical Association for the protection of their interment, were unanimously adopted, and laid the foun- ests; for the maintenance of their honor and respectdation of the advanced requirements of the present ability; for the advancement of their knowledge and the extension of their usefulness." Upon this broad During his membership, he gave several valuable foundation has arisen the largest representative medical association known in history.

At this gathering 120 medical men met in consulta-Medica and Physiology, Cerebral Symptoms in Heart tion. They fully endorsed the resolutions presented by Dr. Hays; they also recognized the necessity of of Diabetes. Typhoid Fever, and Variations in Pitch a united profession, and in order to attain this great in Percussion. His Address on Medicine and Med- end they resolved that a committee of three members ical Progress in the United States, before the Inter-should be appointed to report a plan of organization at a future meeting to be held in Philadelphia the first Tuesday in May, 1847.

They also recognized that a uniform and elevated standard of medical education should be adopted by all the medical schools for the degree of M.D. in the United States, and to properly present this question From his youth up, Dr. Flint was an indefatigable to the profession and the schools they appointed a committee to report at the same time.

They also recognized the fact that men were being Conscientions in his relation to the profession he so educated who had received no suitable preliminary fondly loved, and to the public, his recognition of the training, and they appointed a committee to report code of ethics, as exemplifying the honorable rela- a standard of requirements which should be exacted tions of the profession towards one another and to of such young men as purposed entering upon the

and conduct another, and that the Golden Rule, how-common schools, academies, colleges and universities, ever sound and correct, failed in practice; that, how- the people themselves were more highly educated. ever good the intention, experience had shown that Men entering into the learned professions readily obwrttten rules and regulations were of much more served that, in order to gain the respect of their binding force than abstract reasoning and even Divine patrons who were educated, they themselves must also Law. They therefore deemed it essential that the be educated. This report at once gave a stimulus in entire medical profession in the United States should the proper direction, and from that day to the presbe governed by the same code of ethics, and to that end a committee was appointed to report.

The question of the union of teaching and licensing in the same hands was also considered. It was believed to be wrong in principle and liable to great allowed to enter the portals of the medical profession abuse in practice. Instead of conferring the right to license on medical colleges and State and county medical societies (as was then the custom), it was pedient that the medical profession should be govdeemed best that it should be restricted to one Board erned by the same code of medical ethics in this in each State, a principle now fully recognized, and country, founded their report on the "basis of relipractically carried out, by the State of Illinois. This was also referred to a committee to report.

The subject of urging upon the several State govsidered, and referred to a committee.

They also considered the necessity of a proper was also referred for report.

According to the best information I can obtain, only four of these pioneers of this Association are now living. To them this Association owes a debt pathists, have copied its principles in their constituof gratitude which can never be paid. Of these four, two have been honored by the Presidency-Dr. A. Stillé and Dr. N. S. Davis. Drs. Alonzo Clark and Lewis P. Bush are the other two. All have reached their three score years and ten.

the District of Columbia were represented at that meeting by 247 delegates. Considering the modes of traveling at that day it was a large representation of the profession of our country, and again showed the interest in the organization of this Association. At this meeting the report of the committee on the organization of the American Medical Association was adopted, Dr. John Watson, of New York, chairman, and, what is remarkable, stands with but slight changes as the present constitution.

The report of the committee upon a uniform and elevated standard of requirements for graduation in medicine, which was adopted, called the attention of the profession to the necessity of a more rigid examination and a higher degree of preliminary education. The Educational Department at once recognized the value of the suggestion, and to-day we find the medical schools giving more attention to the quality of their graduates than to the numbers of those who receive from them the degree of M.D.

The report of the committee on preliminary education aroused the attention of both the private preceptors and the medical schools to the deficiencies of young men desirous of entering the profession. The time had come when the demand for medical of that committee is now living. men with a modicum of preliminary education was

They also recognized that principle was one thing less than the supply. By means of the system of ent, preliminary acquirements of a higher standard are required by all medical colleges which have any regard for the standing of their graduates. Education is the requisite of a gentleman, and no one should be who has not that qualification.

The committee, under the resolution that it is exgion and morality," which comprised not only the duties but also the rights of a physician. The high character of that committee, their age and experience, ernments the adoption of measures for a registration fully qualified them for the delicate duty imposed of marriages, births and deaths, was favorably con- upon them. Time has fully proved the wisdom of that report.

The Code of Ethics as adopted has stood the test nomenclature of diseases, adapted to the United of nearly forty years, and for more than nine-tenths States, with reference to a general registration. This of the regular medical profession of these United States constitutes their rule of action and professional government.

Even those styling themselves eclectics or homeotions and made it the basis of their relations to one another and to the public. The government of the United States is based upon a written constitution; States and municipalities are governed by the same principles. The doctrine of majorities as thereby The convention of 1846 adjourned to meet in inculcated governs the action of organized society in Philadelphia May 5, 1847. Twenty-two States and its minute ramifications; the medical profession is no exception. We meet here to-day upon this broad principle, and what is most remarkable, of every State Medical Society, county society, or local organization which has adopted the Code, only one has repudiated it and entered upon the rôle of a solitary minority. I allude to the Medical Society of the State of New York, from which came the invitation, in 1845, for the preliminary meeting that gave birth to this Association.

To their honor be it written, the majority of the profession of that great State repudiated the action of their State Medical Society, and it now has the unenviable position of being solitary and alone in its opposition to the Code of Ethics. The reason for this defection was so manifestly financial that its influence did not extend beyond its own jurisdiction. It is through its Code that this Association represents the whole body of the medical profession throughout these United States, as the American Congress represents the people of the same.

Could those wise men who framed this Code be here present with us to day in this hall and witness your presence, they would say, like one of old, "Now lettest thou thy servant depart in peace." But one

<sup>&</sup>lt;sup>1</sup> Alonzo Clark, M.D., New York City.

In no one subject are the people of our country

fession is more respected.

Educated as the large majority of them are, they fully comprehend the relations of the profession, and the Classification of Fever by the Nervous Sys-They are independent thinkers, and in their relation to the profession cannot be bought or sold. How the late Marshall Hall .- Vol. 10. wide the difference between this country and Europe! There a practice can be bought and sold; here a transfer is of no value because there can be no delivery.

It has been charged that this Association has failed of being a body for the advancement of scientific laid the foundation for such record. - Vol. 12. medicine has degenerated into a body of "thankless intriguers and demagogues."1 For thirty-nine years this Association has been in existence. At its organization no other National association of medical

men existed.

A few of the older States had their State societies. The county societies in those States were few and far between. In the larger cities local societies were maintained; each was independent of the others. There was no general forum where individuals could present their investigations, and when presented, no transactions of this body be critically analyzed, the charge that scientific medicine has not been advanced by its existence would lamentably fail.

The character of the work done by the Association since its organization may be well exemplified by a

few selections from its Transactions.

The essay of Dr. Dalton on the Corpus Luteum in Pregnancy gave him a National reputation as a physi-

ologist .- Vol. 4.

Value of Pitch in Percussion, and Respiratory Sounds and their Application to Physical Diagnosis, opened a new era in the investigation of pulmonary diseases. - Vol. 5.

Coxalgia or Hip Disease, by Alden March, M.D., an ex-President of this body, gave the first impulse to the proper diagnosis of this disease, and its treatment.

The prize essay of Prof. Charles D. Meigs, on Acute and Chronic Diseases of the Neck of the Uterus, laid the foundation of the department of gynecology, and the plates illustrating his cases are copied S. D. Gross, M.D., LL.D., Oxon. - Vol. 26. to the present time.

The Surgical Treatment of certain Forms of Fib- S. D. Gross, M.D., LL.D., Oxon. - Vol. 26. rous Tumors of the Uterus, by Washington L. Atlee,

M.D., opened the field for the ovariotomist.

The Cell-its Physiology. Pathology and Philosophy, by Waldo J. Barnett, from original investiga-

tions, anticipated Virchow .- Vel. 6.

The new method of treating Ununited Fractures and Certain Deformities of the Osseous System, by Daniel Brainerd, would have done credit to Mal

Deformities after Fractures, by Dr. F. H. Hamilton, has become authority at home and abroad. - Vol. 8. Statistics of Placenta Prævia, by Dr. J. D. Trask.

The Clinical Study of Heart Sounds, by Austin Flint, Sr., M.D.

The Physiology of the Arterial Circulation and the more interested than in that of medicine, and no pro- Chief Pathological Relations, by Dr. H. Hartshorne. - Vol. 9.

Report on the Nervous System in Febrile Diseases, tem, by Henry Frazer Campbell, M.D., indorsed by

Report on Moral Insanity and its Relation to Medical Jurisprudence, by D. Meredith Reese, M.D.

-Vol. 11. Report on a Uniform Plan for Registration of Marto meet the requirements of its founders, and instead riages, Births and Deaths, by W. L. Sutton, M.D.,

> Report on the Influence of Alcoholic Drinks in the Development and Progress of Pulmonary Tuber-

culosis, by N. S. Davis, M.D.-Vol. 13.

Report on Morbus Coxarius, or Hip Disease, by L. A. Sayre, M.D., illustrative of the fixed treatment by Plaster of Paris .- 1 ol. 13.

Prize essay on the Pathology of Jaundice, by S.

Fleet Speer, M.D.-Vol. 13.

Prize essay on the Criminality and Physical Evils of Forced Abortion, by H. R. Storer, M.D.- vol. 16. Prize essay on the Surgical Treatment of Morbid

general means of their dissemination. Could the Growths within the Larynx, by Louis Elsberg, M.D., the father of laryngoscopy. - Vol. 16.

Report on the Etiology and Pathological Relation of Epidemic Erysipelas, Spotted Fever and Diphtheria, by N. S. Davis, M.D.- Vol. 17.

Report on Plaster of Paris in Surgery, by James

L. Little, M.D.

Prize essay on the Treatment of Certain Uterine Abnormities, by Montrose A. Pallen, M.D.—Vol. 18.

Report on the Best Treatment for Different Forms The prize essay of Dr. Austin Flint, Sr., on the of Cleft Palate, by W. R. Whitehead, M.D.—Vol. 20. Mollites Ossium, by Joseph Jones, M.D.—Vol. 20. Prize essay on the Treatment of Aneurisms, with

Experiments for the Closing of Arteries by a New Method, by Benj. Howard, M.D.-Vol. 21.

Prize essay, Atropia and its Salts, by Roberts Bartholow, M.D. - Vol. 20.

What Physiological Value has Phosphorus as an Organismal Element? Prize essay by Samuel R. Percy, M.D.— vol. 23.

Syphilis in its Relation to the National Health, by

A Discourse on Blood Letting, the Lost Art, by

History of Yellow Fever and Dengue in Texas, by

Greenville Dowell, M.D. Excision of Large Joints of the Extremities.

prize essay by H. Culbertson, M.D.-Supplement to

Report on Animal Vaccination, by H. A. Martin, M.D. - Vol. 28.

Prophylaxis of Septicæmia in Surgery, by E. M. Moore, M.D.— Vol. 29.

Surgical Anatomy and History of the Common External and Internal Carotid Arteries; Anatomy and History of the Innominate and Subclavian Arterics. A prize essay by John A. Wyeth, M.D .-

The Pathology of the Bones, by Henry H. Smith,

M.D.- Vol. 29.

<sup>1</sup> New York Medical Journal, page 44, 1885.

Prize essay. Consideration of Certain Forms of Primary and (Local) Secondary Degeneration of the ing such a bill, would have great weight with Con-Lateral Columns of the Spinal Cord, etc., by Allan McLane Hamilton, M.D.-101. 30.

Treatment of Fibroids of the Uterus by Means of Dry Earth, by Addinel Hewson, Sr., M.D.-Vol. 31. gious Diseases and Infection, by A. Jacobi, M.D.

Fibroid Tumors of the Uterus, by H. O. Marcy,

M.D.—Vol. 33.

work done by the Association since its organization. Besides the reports on Medical Education, Medical Materia Medica, Physiology, Obstetrics and Diseases that it be stricken out of the list of ordinances. of Women and Children, Surgery and Anatomy, Chemistry and Psychology, Pediatrics, State Medi-that I would recommend that in addition to the procine, etc., scarcely a question of importance, whether in the interest of the profession or the public, has failed to receive investigation.

medicine were unknown. All medical men were ticular, and as permanency adds to efficiency, I would general practitioners. The prominence given special diseases by its reports and investigations led men to permanent, subject to removal on the recommendagive special attention to particular diseases. The tion of the Section. The wisdom of such permanency accretions of people in the larger cities developed the field for a division of general practice, and the tive and less toilsome. The advance of time develthe leading specialty; then followed the Otologists, of these Associations are necessarily limited in num-condition and its growth. ber, others have specified their limitation. All are off-shoots of this Association. limited territory. The American Medical Association "Every paper received by this Association and orcovers the whole field of medicine, and through its dered to be published, and all plates or other means whether high or low, to give to the profession any erty of the Association, and shall be published and and all of his personal knowledge.

"No pent up Utica contracts its powers, The boundless universe of Medicine is ours."

The course of events in science, as well as in medicine (and I use the latter term in its broadest sense), demonstrated that much which is called new has had its expression in the writings of the fathers, and experience has shown that change is not always progress.

Blepharoplastic Operations, by A. C. Post, M.D. tives, at Washington, appropriating money to investigate whether it can be aborted and even prevented.

A proper resolution adopted by this body, approvgress. It is highly proper that all such investigations should be conducted at the expense of the general

government.

A series of resolutions were adopted by this As-Progress in the Knowledge of the Acute Conta-sociation at the meeting in Atlanta, Ga., on the metric system, which have been a dead letter in the Transactions ever since. The several State Medical Associations, which at that time also approved the These papers fully illustrate the character of the system, have never applied it in their Transactions. Only a few of the profession follow it in writing their prescriptions, and with rare exceptions it is not used Literature, Registration of Marriages, Births and by writers on medicine. Dr. Oldberg, through whose Deaths, Medical Jurisprudence, Hygiene and Insan- influence while medical purveyor in the United States ity, Meteorology and Epidemic Diseases, Crypto- Marine Hospital Service it was introduced, has degamic and Zymotic Diseases, Practical Medicine, clared it a failure. I would therefore recommend

The value of the Sections has been so fully proven posed new Section of Medical Jurisprudence, one on

Dermatology and Syphilis be added.

The work in the Sections depends so much upon Before the time of this Association, specialties in the efficiency of their officers, the Secretary in parrecommend that the Secretaries of Sections be made

can be readily comprehended.

In imitation of the British Medical Association, selection of a particular branch of disease, applicable the journal system was adopted. I take great pleasure to a particular organ, was soon found to be remunera- in stating that thus far it has been a satisfactory success. The Board of Trustees, with its efficient Editoroped the number of specialties. The first to organize in-chief, have so managed its finances that it has a National Association were the Ophthalmologists, proved no incumbrance on the Association. The plan adopted of receiving members by application, Gynecologists, the Dermatologists, State Medicine has proved satisfactory, not only by increasing the and Hygiene, under the name of Public Health, the circulation of THE JOURNAL, but also by increasing its Laryngologists, the Surgical Association, and latest, emoluments. The report of the trustees will give the Association of Physicians and Pathologists. Some you a full and explicit statement of its financial con-

I would also call the attention of the members of Each occupies a the Association to paragraph 3, sec. 4, of the by-laws: Sections affords an opportunity to every member, of illustration, shall be considered the exclusive propsold for the exclusive benefit of the Association."

As this by-law makes all addresses, papers and reports presented to the Association, or in its Sections, the exclusive property of the Association, it is not proper to give copies of such addresses to other journals to appear entire before or simultaneous with their appearance in The Journal of the Association. If the proprietors of other journals choose to employ competent reporters to secure such reports and ab-The prevention of yellow fever, the scourge of the stracts of your proceedings, either in the general Gulf States, is a problem in which our whole country session or in the Sections, I would place no obstacle is interested. Dr. Joseph Holt, of New Orleans, in their way. But if they wish to use papers in full, President of the State Board of Health of Louisiana, let them copy the same from the official organ of the has given much time and study to this question. A Association, giving proper credit therefore. And bill has been reported in the House of Representa- every member of the Association should have sufficient interest in sustaining THE JOURNAL that it has established, to comply fully with the by-law I have

I respectfully call your attention, and through you that of the medical profession at large, to the last paragraph of sec. 2, art. 1, "Duties for the Support of Professional Character," Code of Ethics, to wit: "It is also reprehensible for physicians to give certificates attesting the efficacy of patent or secret medicines, or in any way to promote the use of them." The fact that proprietary medicines were not included ical Congress held in Philadelphia, September 4, 1876, in this paragraph has left the door wide open for the the last of which was held in Copenhagen, Denmark. greatest abuse and injury both to the profession and the public. Practically there is no difference between a patent medicine and a proprietary one. In the former the constituents are not known, and although given in the latter, there rests an ownership in their combination that prevents them being compounded by others. Professional men of high repute who lend their names as endorsers to any proprietary medicine whole profession of the United States. The invitashould be looked upon by the profession as aiders and abettors, and should be proper subjects for discipline in any honorable medical society. It is one to add to their numbers, and proceed to perfect an of the crying evils of the day, and does injury both organization with rules for its government. This the to the profession and to the public.

The stigma of professional disgrace should rest rules governing the action of committees. upon any regularly educated physician who allows his name to be advertised as the endorser of any pat-

ent, secret or proprietary medicine.

The British Medical Association is peculiar in its organization, consisting of the parent stem and its branches. It has been suggested that this Association be modeled upon the same plan, by the formation of tee was enlarged by adding a member from each State

the British Association and its branches, I am unable mittee demurred, and declined to take any further

and its affiliations.

In practical application our own system meets the same ends. Late leading articles in The Journal OF THE ASSOCIATION have so well discussed the question that it needs no further elucidation from me. However, its reference to a committee to report next year might be profitable, as any information or change that can add to the improvement and advantage of no validity. It was in the power of the Association the Association should be adopted.

you that the action taken at the meeting in Washington, inviting the Ninth International Medical Conofficers of the Congress and Council, and the officers country, who add lustre to American medicine. Full and complete arrangements will be made for the welcome. Upon the reception of the report of your committee on the preliminary organization of the Congress. I believe you will find it satisfactory, and of its responsibility in the matter.

As the authority of this body to act for the medical profession of the United States has been questioned, it may be proper for the information of many of the members to briefly present, in a concise manner, the relations of the Association to the coming International Congress.

A Medical Congress to be International must necessarily be composed of members from different nations. Eight of these Congresses have been held in Europe, if we may except the International Med-

At the meeting of this Association in Washington, D. C., in May 1884, the President, Dr. Austin Flint, Sr., suggested the propriety of inviting that body to meet in this country. The suggestion was referred to a committee who reported favorably. A committee was appointed to present the invitation. This committee was made broad, so as to represent the tion was accepted. This committee was further authorized, in the event of the invitation being accepted, committee did, in accordance with custom and the committee made its report to this Association at its next meeting, which was in New Orleans, the 28th day of April, 1885. By this action of the committee they fully recognize their responsibility to this body, and not to the profession at large.

This report was not satisfactory, and the commitbranches in the different States and Territories. and Territory, the Army, the Navy, and Marine Hos-Upon a careful examination of the Constitution of pital Department. To this action the original comto discover any superiority to that of this Association interest in the arrangements. That the Association was correct in its action I have only to refer you to Cushing's Manual of Parliamentary Law, the authority in this country, page 154, paragraph 262. When this committee made their report, and it was accepted, the committee was virtually discharged, (page t68, paragraph 290). The report was not adopted. What had passed in the committee was of to discharge the committee from further consideration of the subject, to refer it back to them with instruc-It is with great pleasure that I am able to inform tions, or to enlarge the committee. The latter plan was adopted.

It was claimed that there was an ambiguity in the gress to meet in the Capital City of the United States resolution appointing the original committee in referin 1887, is being fully consummated. The general ence to their powers and duties. Whatever that ambiguity was, the committee itself settled the question of the Sections, are gentlemen of renown in our own by making their report to the Association, thereby acknowledging the authority of their powers and duties.

I cordially unite with the general sentiment of the meeting, and our foreign friends will receive a cordial medical profession that the report of your committee be adopted, and that those of our brethren who may be somewhat disappointed at results will yield their personal feelings to the common good, and by their upon its adoption the further charge of the Congress work demonstrate to our foreign friends that, although will pass into the hands of the Executive Committee, there have been warm feelings, warmly expressed, as provided in Rule 10, thus relieving this Association they can rise above their personalities in the great question of Medical Science and National Hospitality.

the ordinary proceedings of this Association may lancing a gum was a physical impossibility. It is come before you at this meeting, and questions may particularly to be noticed that though he said he had arise affecting its honor and integrity. Even the ex-never seen a case of reflex paralysis, he quoted existence of this Association, so dear to the hearts of amples of inhibitory nerve influence, which he says the medical profession of these United States, may be hazarded. Upon you as its representatives will icent influences are on record, and speak for themcareful consideration to any and all matters that may tative of the American medical profession.

present or absent, had its interests deeply at heart, way. The two cases which follow may, I think, be turn to the ranks with the same zeal for its interests itory paraplegia. which I felt when I first became a member in this great city of the south-west, St. Louis, Missouri, at the meeting of the Association here in 1854.

## ORIGINAL ARTICLES.

TWO CASES OF REFLEX PARAPLEGIA (ONE WITH APHASIA), FROM TAPE-WORM AND PHIMOSIS.

> BY WM. G. EGGLESTON, M.A., M.D., OF CHICAGO, ILL.

about two years ago (May, 1884) by Dr. C. J. Nixon difficulty in swallowing at any time, and the child's in a paper read before the Academy of Medicine in appetite was enormous. It had no difficulty in putthe cases of paralysis of which amaurosis from affections of the fifth nerve, and paralysis of the orbital nerves from a like cause, are examples, may be explained without reflex mechanism. As regards the painful spots along the spine, absence of cardiac disviews of Brown-Séquard, Gull. Leyden, and others, and the experimental observations on the subject, he said that there was no true conception of the mode legs. The patellar reflexes were normal. In testing in which paralysis by reflex action is brought about, for aniesthesia I drew a pencil along the anterior asunless we understand it to be produced by inhibitory pect of one leg, and found, to my astonishment, that influence; so that reflex paralysis, if it have any a white line was produced. The same line was promeaning, must be inhibitory paralysis. He thought duced by irritation of the other leg. This convinced that there is no necessity of admitting the existence me that the paraplegia was not due to spinal disof an inhibitory paralysis, as, taking for example the case, in which irritation produces a red line. In the cases recorded as reflex paralysis, they could arise in crect position the child was utterly unable to move different ways-as an ascending neuritis, which sets the legs, while in the recumbent posture it could up myelitis from extension along the veinse to the draw them up with apparent ease; facts which at once descends along the sciatic nerves. He held that the from intestinal irritation. The fact that the child had

Gentlemen, matters of importance arising out of cure of a paralysis by such a simple procedure as is another name for reflex paralysis!

At the meeting at which this paper was read Dr. rest its preservation. Thirty-nine years of existence Kennedy opposed Dr. Nixon's views, as did others, has entitled it to your support. Its work and benef- and stated that he had seen several cases of armparalysis from gingival and intestinal irritation, the selves. May I ask of you, as its President, to give paralysis disappearing on the removal of the irritation. Two or three years ago Dr. Gomez Torres reported affect its interest and permanency, so that when you the case of a woman with paralysis and atrophy (parreturn to your constituency you can tell them that, tial?) of the upper extremity. Examination showed although the Association has been attacked by foes a chronic parenchymatous metritis and extensive within and foes without, it yet stands as the represen- ulceration of the cervix. She began to improve almost immediately under proper treatment for the In conclusion, may I kindly ask of you the ameni- uterine affection. Frankel has recorded a case of ties due to the office to which you have so kindly hemiplegia due to indigestion. In the Journal de promoted me, and your cordial support. It shall be Médecine et de Chirurgie Pratique, September, 1884. my endeavor to be impartial, and to perform the duties are recorded three cases of aphasia from indigestion. of the chair according to strict parliamentary rules. A boy, 3 years old, was aphasic for two hours, and The honor of being elected by you as President of recovered after vomiting; a little boy was aphasic for the American Medical Association is one that words a day, and recovered after vomiting; a little girl was cannot express. For thirty-two years I have, whether aphasic for about a day, and recovered in the same and when my term of office expires I will gladly re- regarded as undoubted examples of reflex or inhib-

Case 1.—Reflex Paraplegia and Aphasia from Tape-worm.—In July, 1884, a woman brought her little girl, et. 6 years, of German parentage, to my office (in Philadelphia). The child had been under treatment in one of the dispensaries for five weeks for spinal disease. It was taken to the dispensary on the day after its illness became markedly prominent. The symptom first noticed was inability to speak, and on the next day it was unable to walk. Previous to this the child had not been sick since its second year, though it had frequently complained of its stomach. There had been no vomiting, and no diar-The existence of a "reflex paralysis" was denied rhoea. The mother stated that there had been no Ireland. Dr. Nixon's paper was to the effect that ling out its tongue, voluntary movements of the upper extremity were normal, and the pupils were normal. The vesical and rectal sphincters were under control.

Physical examination showed entire absence of ease, a rather marked enlargement of the abdomen, and no anæsthesia, rigidity or atrophy of the paretic spinal cord, or from a lumbo-sacral neuritis, which recalled the remarks of Romberg' on reflex paralysis for some time prior to its illness eaten raw meat with

Abstract in The Lancet, August 23, 1884.
A way of transmission supposed by Gull,

<sup>1</sup> Diseases of the Nervous System, Sydenham Edition, 1853.

its parents, and the further fact that there was a condition of marked pruritus at either end of the ali- caine were injected between the glans and foreskin. mentary tract, caused me to make a temporary and the adhesions were easily and painlessly ruptured diagnosis of tape-worm.

child's supper, and to give two teaspoonsful of spirits in a pair of padded forceps, and three drops of the of turpentine at 6 A.M., with the same quantity of cocaine solution injected into the foreskin at differmilk, two at 8, and two at 10 with a tablespoonful ent points. The forceps were then gradually tightof castor oil. The mother was to report if the tur- ened in order to prevent the cocaine gaining access pentine caused any unpleasant effects.

the mother brought me a bottle containing a tænia bility to a needle run through the foreskin, and it was solium, five feet and a few inches long, with the head. then severed. The cocaine solution was then applied The tænia was passed about noon, two hours after locally around the corona, and the operation was the dose of castor oil was given. It was the ordinary leisurely completed without a cry from the patient. pork tape-worm—tænia solium, as stated above.

ing after the tænia was evacuated. There was then until the following day. On the next morning the no difficulty in articulation, nor did it seem to have strabismus was only slightly noticeable, and it passed forgotten its ordinary vocabulary. The power over away entirely within forty-eight hours after the operthe legs was not so suddenly acquired, but when atian. The patient was kept quiet for three days on brought to my office two days afterwards there account of the operation. When he got up he could seemed to be no difficulty in locomotion.

limbs, of two months' duration, sudden onset, accom- that locomotion would be very good until after the panied by aphasia, neither of which were intermit lapse of several weeks. He was put on tonic treattent, and evidently in no way connected with chorea; ment, and his father left Chicago ten days after the without sensory trouble, or want of control over the operation. On April 17 he wrote from Omaha that bladder and rectum. It seems in the highest degree his son walked easily without support, that there was improbable that either of the troubles for which she no squint, and that his general health was very much came under treatment could have been due, as Dr. better. Nixon thinks, to an ascending neuritis—as improbable, in fact, as that the twitching of the cyclid so of a girl, set 7; whose condition was described by frequently seen in dyspeptic cases should be due to her father, a medical man, as follows: "Nothing a sudden neuritis, which disappears equally suddenly. unusual in her condition since birth was observed, This is more especially true of the three cases cited until within a period of two years, when weakness of above from the Journal de Médecine de Paris.

E. K., æt. 3 years, a poorly nourished boy, of rather was quite gone, unless assisted, and there was comrachitic appearance. The mother said that he had plete loss of vision when she assumed the erect from never walked as well as he should for his age, and the sitting posture, though in the latter she could disthat for two weeks the power over the lower extrem- tinctly see large objects." Mr. Corbett found inities had decreased very rapidly until it was noticed completely ruptured wisdom teeth in the lower jaw. on January 2 that he could not walk at all. Two and giving unmistakable evidence of severe pressure days before this it was first noticed that his eyes were against the second molar to the extent of slight latstrabismic—alternately convergent and divergent, eral displacement downwards. The second molar on The father was a traveling man, and the boy had been under electric treatment in Kansas City for a noticed in a week, and three months afterwards all week before coming to Chicago.

On examining the patient I at once discovered that that vision in the right eye was lost. there was a considerable degree of phimosis, with draw the legs up with much difficulty, but when erect he had no power over them. There was no anæsthesia, no tender spots along the spine or elsewhere. The patellar reflex was normal. The rectal sphincter was under perfect control, but there was some the case of a boy, 3 years old, who had paralysis first loss of power over the vesical. It was easily seen of the right leg, and then of the left. Immediate that the strabismus was alternately convergent and improvement followed a dose of santonine, which divergent. Remembering the white line produced brought away fifty-three dead lumbricoid worms. by irritation of the skin in Case 1, I found that the same thing occurred in this case.1

1 Unfortunately, it did not occur to me in either case to test the skin of the maffected portion of the body.

within two minutes. The line of operation was then I instructed the mother to give only milk for the marked out, the foreskin drawn forwards and caught to the general system and possibly causing evil effects. On the day after the turpentine was administered Two minutes after the injection there was no sensi-

The operation was performed late in the afternoon, The patient did not speak or walk until the morn- and it was not hoped that any result could be seen walk fairly well by supporting himself with a chair. Here was a case of simple paralysis of the lower As he had never walked well it was not to be hoped

Mr. D. Corbett, of Dublin, has reported the ease the lower extremities showed itself, accompanied with Case 2.—Reflex Paraplegia and Strabismus from occasional impairment of vision. This state of things Phimosis—On January 3, 1886, I was called to see gradually grew worse, until the power of progression constitutional disturbance had disappeared, except

McKendrick<sup>2</sup> has reported the case of a woman, two adhesions. In the recumbent posture he could aged 29, who had suffered for seven months from a partial paralysis of the lower limbs, with normal sensibility. She passed a tape-worm nearly twenty-two feet long, and four days afterwards had completely recovered the use of her limbs. Fullers has reported

Transactions Seventh International Congress, iii, 474.
 The Lancet, Vol. 11, 1865.
 Lancet, Vol. 11, 1866.

for three months from paralysis of the upper extrem- the sympathetic system that the irritation in one orities. All the symptoms disappeared immediately gan can be reflected through a sympathetic ganglion

upon the expulsion of a tape-worm.

paralysis in the parts supplied by one nerve followed ing instance is a case in point: injury to another nerve too soon to admit of any anatomical lesion. In many cases the paralysis can of age, gave the following account of herself: She be explained in no other way than as a reflex inhib-believed that she had been born blind of the right itory action. Echeverria reported, in 1863, a case eye. At any rate she remembered, when she was a of paraplegia of the lower extremities caused by the very little girl, being taken to see an oculist in Lonapplication of electricity to an ulcerated os uteri. don, who said she would never see with that eye. The paraplegia disappeared in fourteen hours. No- She could not distinguish light with it. In January, nat<sup>2</sup> published a case of loss of consciousness and 1882, she had a canine tooth on the right side of the paraplegia due to cauterization of the cervix uteri. mouth extracted. She immediately became con-Landry reported a case in which paralysis disap-scious of light, and in a few days entirely gained peared after restoration of a deflected uterus. Ros sight in this eye. The optic disk and retina were enthal has reported a case of a woman, 23 years old, perfectly normal, yet for thirty-six years she was quite who suffered for three weeks from paresis of the legs, blind, apparently from some reflex influence connectcoming on after pains and cramps in the abdomen, ed with the alveolus of that tooth. With such an in-A needle was found deeply imbedded in the vagina, stance, it may not be well to speak of the impossiand the paresis rapidly disappeared after its removal. bility of reflex irritation or reflex paralysis being per-

rosis, in which it is fair to assume that a tape-worm does Dr. Nixon, of the physiological impossibility of was an, if not the, etiological factor. The patient, a a true reflex paralysis. man, was seized with sunstroke, and subsequently exhibited symptoms of cerebral congestion, accompanied by amaurosis. This condition disappeared paralysis, it is necessary to show that the former prefor a time and then returned. The muscles of the cede the occurrence of the latter in a large number neck were stiff; pharyngeal spasm occurred; he be- of cases; and that when we consider that the various came insensible, delirious, and presented amblyopia, local diseases which are supposed to have causative with dilated pupils. It was then ascertained that the connection are not associated with paralysis in the patient was subject to frequent cerebral attacks of a vast majority of cases, such a connection, when the similar character, and that each attack coincided association exists, is conjectural. But I do not see with the expulsion of fragments of tænia. The bark that the causative relation is so conjectural, even if of pomegranate root was administered, the worm was expelled, the patient's condition improved, and he was finally cured.

Dr. W. B. Hadden<sup>4</sup> records some very interesting cases of aphasia and paralysis occurring in chorea. and the motor paralysis. Both are transitory condimay be caused by eating shell fish. It seems rather centres and not necessarily due to exhaustion by an- flex paralysis while the other may cause a reflex cutatecedent spasm."

We may admit that it is against all analogy with what is usually seen that vascular constriction to the extent of causing paraplegia (as has been held) will be persistent. But there are some cases which can scarcely be explained as being due, not to reflex irritation, but to a definite abnormal condition of the peripheral nerves, that affected the cord by lines of trophic disturbances (Ross). anatomical transmission. As Fox6 very properly

Moll<sup>1</sup> reported the case of a woman who suffered remarks, it is the very essence of the pathology of as a centre of a reflex arc . . . "but that such an The number of cases reported in which recovery irritation can reflect through a ganglion a persistent has followed immediately upon removal of the irrita- constrictive effect on a vessel seems to militate against tion is too large, though the number may be abso- the ordinary phenomena of physiology and disease. lutely small, to admit the idea of organic spinal lesion. And yet it is only fair to place upon record any facts In some of the cases of peripheral paralysis reported that, exceptional as they may be, tell in any way by Mitchell, Keen and Morehouse, for example, the against this commonly received dictum. The follow-

"A very sensible and active shopwoman, 36 years M. Molard has recently published a case of amausistent for long periods. Nor is it well to speak, as

the number of cases be small comparatively. The number of people, for example, in whom quinine will produce a rash is very small; and the number of people who always have urticaria after eating shell-fish is also very small. Yet the authors, some at least, who He calls "attention to the apparent resemblance hold that the causative relation of local irritations to which exists between the speechlessness of chorea paralysis is conjectural distinctly avow that urticaria tions, probably dependent on inhibition of motor inconsistent to hold that the one cannot set up a reneous affection.

In reflex paraplegia, according to Ross, the paralysis is never complete, and Charcot says that the reflex activity of the cord is never increased. There is absence of pain in the loins, of girdle pains, dysaesthesiæ, anæsthesia and of contractures (?), of paralysis of the bladder, and of bed-sores and other

Fagge thought that "the only way in which one can exclude the possibility that the relation between the primary disease and the paralysis is purely accidental, is to show that the cases in question are too numerous to admit of such an explanation. But can this be shown? I must for my part confess that I have

<sup>Quoted by Ross from Brown-Séquard.
Quoted by Rossenthal.
Recentif d'Ophthalmologie, quoted in the British Medical Journal,
Nov. 21, 1885.
St., Thomas's Hospital Reports, n. s., Vol. XIV.
E. Long Fox, Influence of the Sympathetic on Disease, London, 1885.</sup> 

never yet had under my care a patient who appeared symptoms and recovered almost immediately after to me to be suffering from reflex paraplegia." He removal of an irritation: an irritation which, had it thinks it scarcely possible to exclude hysteria as a been proved and produced in slighter affection, would cause of the loss of power in those cases in which certainly be held to be the direct cause of the affection. women rapidly recover from paralysis after reduction a catheter a remarkable improvement took place in experience these changes are the exception. his legs and in his back, where he had much pain. regarded as doubtless due to hysteria or myelitis.

many cases commence as reflex cases, but that long persistence of the irritation may set up a myelitis. And if we hold that the cases of supposed reflex irrithe pathological absurdity of maintaining that a myelitis may be entirely cured within twenty-four hours, or else that all the cases of quick recovery on the removal of an irritation are mere coincidences of neryous affection and the presence of an irritant.3 In reply to those who say that it must be shown that Landry's paralysis may not be due to vaso-motor the cases in question are too numerous to admit of disturbances (in a report of a case cured by ergot). any other explanation than that of coincidence, it may be said that they are too numerous. It is not Eichhorst, that the aphasia of chorea, catalepsy, inparaplegia. If the presence of an intestinal irritation can cause general convulsions, chorea, incontitooth headache, a nasal polypus epilepsy, nasal irritation cough, etc., it is entirely admissable to hold We know that contraction is the function of the vasothat paralysis may be solely due to irritation con-motor nerves most frequently called into exercise. veyed reflexly. Even admitting that many of the hysteria, we may practically exclude hysteria in the red lines (the so-called meningeal lines), and it is to cases of young children who have presented these be noticed that in both the cases reported by the

Eichhorst1 says: The name reflex paralysis is based of a flexed uterus. But is there any more reason why on the idea that affections of the peripheral organs a displaced uterus should not cause reflex symptoms can so act on the cord that spinal paralyses are prothan that they should be caused by intestinal worms, duced therefrom. They almost always appear as by dental irritation, or by stricture of the urethra? paraplegias. Reflex paralyses most frequently ap-Graves recorded the case of a man who was admitted pear in connection with diseases of the uro-genital to the Richmond Hospital in 1835 with partial par- and intestinal apparatus. The possibility of the ocaplegia of two weeks' standing, and a tight stricture currence of reflex paralysis in the proper sense must which had existed for some months,2 "He had re-certainly be admitted for those cases in which a parcently been exposed to cold and wet, and this might alysis disappears almost immediately after the cause have been regarded as the cause of the paralysis. is removed, as it can scarcely be due to anatomical But in a very few days after the first introduction of changes in the nervous system; still, in our present

Lewisson's theory, which is probably correct in In fact, the change was almost sudden; and within true reflex paralysis, is that the paralysis is due to an a month the power of the lower limbs was almost arrest of the functions of the motor nerve centres, in restored. It would seem that we may fairly regard consequence of excessive irritation of the sensory this as a case of reflex paraplegia." But it seems fibres. We need not go so far as Jaccoud, and say that there is much more reason for regarding this as that reflex paralysis paraplegia is due to an "exhausa case of recovery from slight myelitis, in view of the tion" of that portion of the cord upon which fall the length of time required for recovery, than many of stimuli conveyed upward by the sensitive nerves bethe cases of true reflex paraplegia which have been longing to an irritated part; a theory which is unsupported.3 It is only necessary to know that the Again, it is not at all unreasonable to suppose that sympathetic ganglia can act as independent centres for reflex arcs.4 This takes place as each bloodwave in its passage along the arterial system, forms the stimulus to the eisodic conductors to one another tation are really due to myelitis, we are reduced to of the minute sympathetic ganglia found along the course of all the blood-vessels, their function being the reception of these stimuli from the fibrils excited by the blood-wave, and reflecting the order for contraction down the exodic fibres to the vessels again. Sorgenfrey has raised the question as to whether

These considerations naturally suggest the idea of at all necessary to confine the evidence to cases of testinal irritation, etc., is due to ephemeral circulatory trouble; by which he must mean vaso-motor trouble, and necessarily a reflex vaso-motor trouble. Martin nence of urine, epilepsy and aphasia, or decay of a Bernhardt\* recognizes reflex action from the digestive tract as an etiological factor in aphasia (reflex aphasia). Now in paraplegia by compression white lines are cases occurring in women may be fairly attributed to more easily produced by irritation of the skin than writer white lines were produced when the finger was drawn across the legs.

The application of the doctrine of "inhibition" to

Practice of Medicine, Vol. I, p. 409.

<sup>&</sup>lt;sup>1</sup> Practice of Medicine, Vol. I, p. 409.
<sup>2</sup> Fagge, I. e., p. 407.
<sup>2</sup> Fagge, I. e., p. 407.
<sup>3</sup> C. B. Radchife (Reynolds's System of Medicine, Vol. II, London Ed., 1898) says that reflex paraplegia differs diametrically from paraplegia produced by myelitis. "In paraplegia from myelitis the paralysis as associated with tingling, numbness, or ane-sthesa; not so in reflex paraplegia. In paraplegia from myelitis paralysis of the bladder and lower bowel is a marked phenomena; not so in reflex paraplegia. In paraplegia from myelitis the paralyzed muscles are usually atrophied and degenerated, not so in reflex paraplegia. In myelitic paraplegia cure, or even improvement, is the exception; in reflex paraplegia is it is the rule. But the diagnosis between reflex paraplegia from congestion of the cord is extremely difficult." I would not say that the paraplegia differ diametrically, but simply that paraplegia from congestion of the cord is extremely difficult. "I would not say that the paraplegia differ diametrically, but simply that paraplegia from myelitis is a more complete paralysis.

paralysis.

Finicke, Deutsche med. Wochenschrift, No. 4, 1886, quoted in Jahrbuch d. Pract, Med., 1Ht. 1, 1886.

<sup>&</sup>lt;sup>1</sup> Specieile Pathologie und Therapie, Bd, 111.
<sup>2</sup> The "inhibitory" theory. It seems, however, that he should have inserted the word certain before "motor nerve centres."
<sup>3</sup> Unsupported pathologically; though by no means untenable and certainly not unmelligible, as Fagge seemed to think.
<sup>4</sup> While we may admit that cases of reflex paraplegia are due to an affection of the central nerve-structure of the lumbar region cord, it is not at all necessary to hold that the cord is damaged.

<sup>\*</sup> rox, 1, c. Acute ascending paralysis. 7 L. c., Bd. III. 8 Virchow's Archiv, Bd. 102, S. 26, quoted in Jahrbuch d. Pract. Medicin, 1886, p. 312.

paraplegia was made by Lewisson in 1869. In a During the last year I have had opportunity to try series of experiments on rabbits he succeeded in part this drug in a considerable number of cases. They alyzing the lower limbs by squeezing the kidney, the have so uniformly progressed favorably that I have uterus, or a loop of intestine. The loss of power thought it worth while recording them. It is difficontinued while the pressure lasted, or a little longer, cult, however, to estimate justly the action of any and disappeared abruptly. In Guy's Hospital Re- drug in this disease, for we know that a proper modiports, 1868, Mr. Salter gives two cases in which callification of the diet will alone produce the most ries of wisdom teeth not only caused severe pain in marked curative effects, and probably no one venthe arm, but partial paralysis of the muscles. In tures to treat a case without simultaneously regulatone case all the symptoms passed off as soon as the ing the patient's diet. tooth was drawn, and in the other a like result fol- The first case in which I used the arsenite of bromlowed within a few hours after drawing the tooth, ine was that of a lady past middle life, living in a Fagge refers to these cases, and admits that they, neighboring city. She had for several months been and some cases of paraplegia occurring coincident- losing strength and flesh. She complained of a perally with intestinal worms, are "in perfect accord verted appetite for liquids, and noticed that the urine with Lewisson's experimental results, since they sub-was passed with frequency and in unusual quantities. sided as soon as the source of irritation was removed."

The symptoms that are most noticed by the patient were an unnatural weariness on slight exertion, and ture, with abrupt termination on removal of a coinincident irritation, have been reported can only be pounds or so in six or eight weeks. In this case, learned by a thorough examination of medical litera- there was frequently present a peculiar stinging pain ture. The cases reported in this paper have been in the tongue, and a twitching of that organ. found in a very short time and with a very limited. When the urine was examined, it was found to be literature at hand. But I think that a sufficient num- heavily laden with sugar. A strict diabetic diet was ber have been referred to to permit the idea that the prescribed, together with the arsenite of bromine in nervous affections and the irritants are not always three-drop doses three times daily; also granules of mere coincidences, and that even when the affections digitaline, each of one-sixtieth of a grain. The latter occur in women it will not do to say always that "it was used to steady and strengthen the heart's action, is scarcely possible to exclude hysteria as a cause of which was unusually weak and somewhat irregular. the loss of power.'

paralysis due to peripheral irritation acting reflexly. general improvement. This improvement was steadmals seems proved by the remarkable chloroform ex-never showed signs of sugar after its first appearance, periments which Brown-Sequard has lately published. The patient was as faithful for four or five weeks to

and should only be made when:

1stly. There is no evidence of organic disease. 2dly. There is a manifest source of peripheral signs of a relapse.

followed by disappearance of the paralysis.

the cord are sometimes met with and are clearly functional in character."

## ARSENITE OF BROMINE IN DIABETES MELLITUS.

BY N. S. DAVIS, JR., A. M., M. D.,

ADJUNCT PROPESSOR OF PRINCIPLES AND PRACTICE OF MEDICINE IN THE CHICAGO MEDICAL COLLEGE, ATTENDING PHYSICIAN TO THE MERCY HOSPITAL,

In July, 1884, an article appeared in The Journal. OF THE AMERICAN MEDICAL ASSOCIATION, written by Austin Flint, Jr., on "Diabetes Mellitus". In this article he recommended for medicinal treatment the this case little of the improvement which followed liq. brom. arsenitis, first suggested by Clemens.

At the end of the first week, a trace only of sugar Bramwell, in discussing the functional paralyses was found in the urine and all the symptoms were mitoccasionally resulting from peripheral irritation actigated. The dose of the arsenite of bromine was ing reflexly, says that the cases in which there is an increased to five drops. At the end of the second organic lesion of the cord cannot correctly be termed week, or a little sooner, all trace of sugar disappeared reflex, if we understand by that term a functional from the urine, and there was a steady and marked "True reflex paralysis is undoubtedly rare, but that ily maintained, and in two months from the time the it does occasionally occur in man seems beyond dispatient came under treatment, she was feeling quite pute; and that it can be induced in the lower ani- herself again. Although frequently tested, the urine The diagnosis of reflex paralysis is always hazardous, the prescribed diet as one can be, and returned to an ordinary diet very gradually. She has been under observation for nearly a year now and has shown no

The second case was also in a woman, a little past 3dly and chiefly. The removal of that irritation is middle life, but in the middle class of society. When first seen she complained of excessive weakness, Temporary paralysis due to vaso motor changes in which had gradually but somewhat rapidly stolen upon her, and an excessive and seemingly unquenchable thirst. She had lost flesh only moderately. The appetite for food was scarcely up to the average. The urine was more abundant than normal, and was clear and limpid. She was so weak, or as she expressed it, "so tottering upon her feet," that she could scarcely walk across the room. The weather was sultry, but her skin was dry.

She, also, was placed upon the arsenite of bromine in five-drop doses three times daily, and her diet prescribed. In the use of a restricted diet she was not at all persevering. I think, therefore, that in treatment can be ascribed to the food eaten, or rather

<sup>&</sup>lt;sup>1</sup> Brain, Vol. IV, p. 41.

In a week from the first visit she had so far im- begun. In a few days all the symptoms were mitiproved that she could easily get about the house, and gated, and in two weeks she was feeling as well as the sugar had disappeared almost entirely from the usual. The sugar entirely disappeared from the urine urine. The thirst had disappeared, and in every way soon after the arsenite of bromine was employed. she was improved. I did not get a sample of the The next case was that of a man living in the cenurine to test until ten days had passed, and in this tral part of the State, who was unusually large and no sugar was found. Improvement continued stead-ily. After this date I ceased to hear from her directly. From other members of her family, who consulted me in regard to themselves, I learned from time to time during several months that she was feel-ing out the state, who was limited in who was leader out. He came to the office complaining of lack of energy, weariness on slight exertion, and pain, particularly in one ankle, which some months before had been sprained. His appetite was unusually good, but there was no great thirst. He passed ing quite well.

this period is not worth recording, as after making a seven in the morning. The urine was of a light diagnosis and prescribing as in the former cases, it amber color, clear, and contained a large quantity of passed into other hands. It was a gentleman already sugar. He had lost flesh, and was steadily losing, under treatment who came to me for additional although still unusually heavy. The loss of energy

counsel.

The fourth case was that of a lady in the best stafollow.

1. At the time of which I now write she was suffering after the first week of treatment. from an attack thus provoked. In addition to the The next case was also that of a man residing some three times daily. As an external application, car- action of sugar was obtained. bolized cosmolin was used. She returned in two or The treatment prescribed consisted in directions week later she was not feeling much better, although cannot yet judge of the result. the urine contained less sugar. The pruritus still

urine frequently, and very large quantities, filling an The third case that came under my observation in ordinary pôt de chambre full between ten at night and

and strength was, however, most marked.

His diet was carefully prescribed, and the arsenite tion of life, about fifty years of age. She had been of bromine in five drop doses, three times daily, was under my father's care for four or five years, and my ordered. A week later, no sugar could be found in own, at times, for two years. In her case the diathe urine, and he said he thought he felt a little betbetes usually came readily under control, but in from ter generally. The quantity of urine secreted was six to nine months there was apt to occur a relapse. much less. At the end of the second week he was These relapses were marked by loss of flesh, but feeling very greatly improved; his strength and natumuch more marked loss of strength and energy. She ral energy had very considerably returned, and as he had during all those years adhered to a modified expressed it, he was getting back some of his old diabetic diet, being allowed a very little sugar in her spring and elasticity of gait. The pain in the ankle coffee in the morning, and a very moderate amount about which he first complained was nearly gone. I of wheat bread. The relapses, or return of diabetic had thought that that was only in part due to the trouble, could nearly always be traced to over-exer-sprain which his ankle had suffered, but was in part tion and a little laxity in the diet. If she attended rheumatic, and accordingly at the end of the first two or three lunches or receptions in quick success week I gave him a pill of salacylic acid of two and a sion, and was tempted to take preserved fruit or half grains, four times daily, in addition to his other cake, a new outbreak of the disease was very apt to medicine. Steady improvement has taken place in this case, and no sugar has been detected in his urine

usual loss of strength and energy and the presence fifty miles from Chicago. He was in the middle of sngar in the urine which ordinarily marked her period of life. For some months he had been losing attacks, she suffered severely from pruritus vulvæ. flesh, having lost as much as twenty pounds in all. She had begun to exercise rigid care about her diet. He complains much of the quickness with which he of her own accord, two or three days before consult- becomes wearied when walking, especially in the ing me. There was, however, abundance of sugar in legs below the knees. His countenance presents a the urine. As previously she had appeared to recov- worn appearance; the color of the face is sallow; he er quickly under the use of small doses of calomel urinates more frequently than natural, and copiously. maintained for a few days, and a pill of extract of The first sample of urine shown me was slightly redergot of three grains, three times daily. She was der than natural. At the bottom of the bottle there first placed upon the ergot, and, with the hope of was a slight cloud of mucus, and over the sides and getting the effect of the mercury, and still more bottom numerous fine, beautiful reddish crystals of marked effect upon the pruritus through arsenic, she uric acid. No albumen was found in the urine, but was also given six drop doses of Donovan's solution after filtering off the sediment the characteristic re-

three days, complaining of heaviness of the eye-lids as regards diet, and the use of arsenite of bromine as and puffing of them. There was slight but evident in the last case. Ten days later the urine appeared cedema of the lids. The Donovan's solution was disclear and contained no sugar. He is still under continued, and she was given a mixture of glycerine observation, and although there is a little improveand citric acid, in the proportion of about eight to ment in his feelings generally, only three weeks have one, which she had previously used with benefit. A passed since he was placed under treatment, and we

In these cases, I have continued to use the arsenite of bromine for some weeks after sugar had disap-At this time the use of arsenite of bromine was peared from the urine, and until the ability of the

patient to bear a more varied diet had been tested. of Tashkent, records the case of a strongly built and In these cases, improvement, and decided improve- generally healthy midwife, aged 33, who attempted to ment came promptly upon the use of the remedy.

and vegetables rich in starch were forbidden. Bread was allowed only in the most moderate quantities. Patients are always desirous of explicit directions in regard to diet, and I have found it convenient and useful to give them a written or pantagraphic copy of the following:

ARTICLES OF FOOD FORBIDDEN.

Bread, cake, pastry of all kinds, and food prepared with flour, cracked wheat, oatmeal, rice.

Potatoes, turnips, beets, beans, corn, carrots.

Prunes, grapes, figs, bananas, pears, apples, preserved fruits.

Liquors of all kinds, whether distilled or fer-

ARTICLES OF FOOD PERMITTED.

Soups, except those rich in vegetables, meat of all

kinds, fish, eggs, oysters.

Radishes, cucumbers, cresses, celery, lettuce, spinach, cauliflower, cabbage, tomatoes, oyster-plant, onions, string beans, parseley, mushrooms, salads, pickles, olives, oil.

Lemons, gooseberries, currants, sparingly of rasp-

berries, strawberries, oranges.

Milk, tea and coffee without sugar, but with glycer-

ine in its place if desired.

diet more rigid than the above.

It is well known that in many cases of diabetes severe mental strain, sorrow or shock, seems to be the exciting cause of the disease. I have observed this so often that I carefully inquire in all cases for it. I am sure that in a large proportion of the cases that have

[r., has published a list of cases of diabetes in which the disease had occurred in near blood-relations. The to this list, as her mother also suffered from diabetes,

complicated it.

## MEDICAL PROGRESS.

Vratch, No. 44, 1885, p. 733, Dr. J. I. JAVORSKY, of micrococci in the deepest layer of the endarterium,

destroy herself by taking at 1 A.M. about 30 grains of In regard to the diet, sugar and food containing it, acetate of morphine and half an ounce of tincture of opium, Pharm. Rossicae (1:10). No nausea or vomiting occurred. She fell asleep and awoke about 8 A.M., looking very ill. When first seen by the author (at 9 A.M.,) she lay speechless in a comatose state, with irregular, slow, superficial breathing, extreme myosis, her jaws being firmly pressed together. A hypodermic injection of a fourth of a grain of apomorphine produced vomiting in fifteen minutes, after which the author succeeded in introducing into the patient's stomach about six ounces of strong coffee, with a large quantity of tannin. The patient's state however, steadily grew worse. At II P.M. the anthor began to inject one sixth of a grain of sulphate of atrophine every fifteen or thirty minutes. Exactly one grain of the alkaloid was used up to 3 P.M. causing only a moderate mydriasis, but no improvement in the state of the patient, who lay now pulseless, breathing only five times a minute. In spite of the apparent hopelessness of the case, the author went on injecting atropine, alternating it now with injections of tincture of musk. And his energetic efforts were fully rewarded; about 9 P.M. the pulse became full, 90 a minute, and the breathing regular, 12 a minute At 11 P.M. the patient became conscious and asked for drink. Having passed a quiet night, she rose on More or less variation can be allowed from this in the next morning free from any danger. The whole mild cases, and in severe cases more rigor may be amount of atropine injected from 11 A.M. till 9 P.M. required, although it is difficult to hold a patient to a was 2.03 grains; that of tincture of musk, about 2 drachms. Dr. Javorsky thinks that his case strongly supports the theory of an antagonism between atropine and morphine (as upheld by Binz, Benzold, Henbach, etc., against Onsum, Camus, Bois, Knapstein, Dokhman, etc.). [Dr. R. Neale's Medical Digest, sect. 376:5, contains a series of cases of morphinecome under my observation some such mental strain poisoning cured by atropine. In the Voenno-Meditz. was present during the forming period of the disease. Jürnal, August, 1877, Dr. Dobrokhotoff describes In the first of the cases here mentioned business diffi-recovery after poisoning by 10 grains of morphine culties, added to still more perplexing and worrying dissolved in 5 ounces of bitter almond-water; the family cares, were present during the time when flesh patient, a weak woman, aged 24, was treated by atroand strength were most declining. In the second and pine, administered both hypodermically and internally third cases no such causes could be found. In the (altogether 2-5 grains), tincture of belladonna 30last two business trouble was coupled with family sor- drop doses, powder of musk in 1-gramme doses, etc. row. In the fifth case the disease broke out just after In the Vratch. Vedomosti, No. 27, 1883, p. 4162, Dr. the man's entire property had been lost in stock spec-Rodzewicz publishes a recovery after 8 grains of ulation. If any mental influence played a part in hydrochlorate of morphine, the treatment consisting producing the disease in the fourth case it was sorrow. in enemata of coffee-infusion, friction, electricity, In a very recent number of The Journal of the wine, etc.—Rep].—London Medical Record, March American Medical Association Dr. Austin Flint, 15, 1886.

SEPTIC AORTITIS .- At the meeting of the Pathofourth case that I have described might be added logical Society of London, on April 6, 1886, Dr. F. CHARLEWOOD TURNER showed three specimens of and finally died from the effects of carbuncles which septic acrtitis, and a microscopic section from a fourth The first specimen showed the aorta extensively ulcerated, with undermining of the endarterium. This was obtained from a female, aged 62, who had aortic incompetence, with hypertrophy and dilatation of the left ventricle, and granular kidney. Micro-ATROPINE IN POISONING BY MORPHINE. - In the scopic section from one of the ulcers showed masses

at the base of the ulcer. The second specimen of the value of inorganic iron salts in chlorosis is very showed massive fibrinous coagula in the arch of the interesting. The catarrhal state of the alimentary aorta; this was from a case of burn, fatal on the tract present in this condition favors a process of fertwenty-fifth day, from suppuration and pyrexia. The mentation which induces the decomposition of hæmthird specimen was from a man who died of secondary atogen. But when the inorganic iron salts are present, hemorrhage, from a wound of the left internal mamber the sulphites evolved in decomposition attack such mary artery. A fibrinous mass was found adherent salts, with the result of sparing the hæmatogen to the aorta near the valves, with smaller fibrinous Confirmatory to this theory is the recent method deposit on atheromatous elevations. A fourth case of treatment of chlorosis, in which the disinfection was mentioned, in which a similar lesion was found of the digestive tract by the administration of small in a patient who died on the second day after primary antiseptic doses of hydrochloric acid, after meals, has amputation of the thigh. A microscopic section been found more efficient than the use of iron.showed masses of leucocytes about the vasa vasis in Medical News, April 17, 1886. the outer and middle coats, great swelling of the intima with corpuscular infiltration and exudation in the most superficial layer, and cloudy granular fibrin Practitioner, of December, 1885, PROFESSOR RUDOLPH on the surface. The arterial lesion in all the cases Kobert, records a series of experiments with the was referred to the combined effect of structural dis- active principles of ergot. Experiments with ergoease and septic contamination of the blood, weaken-tinic acid, internally and hypodermically, on pregnant ing the resistance of the tissues, and giving a grave bitches, rabbits, cats, and sheep, show that it poscharacter to the lesion. The difference in anatomical sessed no ecbolic power. Hence all aqueous extracts character between the lesion in the first case and in (as water dissolves only the ergotinic acid) are worththe other was attributed to the predominance of the less. The extractum secalis cornuti of the German former factor in the one case, and of the latter factor Pharmacopæia is an aqueous extract, and consein the other. The vascular lesion in this specimen quently is inert. Cornutine, is not to be confounded was regarded as indicating the starting of similar with the ergotinine of Tanret, as the latter is inert, prolesions of the pulmonary artery or venous trunks, and duces uterine contractions both in animals that are of thrombotic lesions of smaller vessels, associated pregnant and in those not. Sphacelinic acidis insoluble with severe endocarditis.—British Medical Journal, in water, and must be given in an emulsion. In cats April 10, 1886.

opinion has existed as to the method of action of nutine and sphacelinic acid take part. The latter ferruginous tonics. That their use is of advantage is acts directly on the uterus, while the former influences a matter of daily observation, but many difficulties directly the centre for the uterine contractions, situarise when we attempt to explain their mode of as- ated in the spinal cord. Professor Kobert had resimilation, for, apart from the fact that nearly if not quested Gehe & Co., of Dresden to prepare an exquite all the iron so ingested is recoverable in the tract that contained both these active principles, which feces, we are met with the equally perplexing fact is called "extractum secalis cornuti cornutino-sphacethat iron salts when introduced into the blood stream licum Kobert." It does not keep well for longer than cause toxic symptoms analogous to those induced six months, but Professor Kobert emphasizes the by arsenic.

into our structure is not normally derived from any inorganic salt, but from one or more complex iron-peutic powers for more than twelve months.-New containing compounds existing in our food, and to be found typically, of course, in milk. Bunge, in the Zeitschrift für physiologische Chemie for 1885, records the extraction, from milk and from egg yolk, of this in a paper read before the Lima Academy of Mediiron-containing organic compound, to which he gives cine, and published in La Cronica Médica, strongly the name of hæmatogen.

molecular composition, though a still more close most commonly used), and to the salicylate and molecular resemblance may be traced between it and borate, with which he has also made experiments. nuclein, if we ignore the absence of iron in the latter. He finds that the benzoate is extremely soluble, easily body. Bunge has extracted hæmatogen from the crystallizable, and retains the characteristic odor of cereals and leguminosæ, and states very distinctly coca itself. The antiseptic qualities of benzoic acid that our food "contains no inorganic iron combina- also are an additional advantage. Amongst other tion, the iron present being in the form of complex experiments, the anæsthetic effects of a 20 per cent. organic compounds, which are built up by the vital solution of the benzoate were compared with those activity of the plant; that in these forms the iron is of a similar solution of the hydrochlorate in a case absorbed and assimilated; and that from them the of epithelioma of the tongue, with the result that the hæmoglobin originates."

IN THE ACTIVE INGREDIENTS OF ERGOT.-In The and dogs it provoked powerful labor-pains, followed rapidly by the birth of the fœtus. From this it is seen THE ASSIMILATION OF IRON.—Much difference of that in the echolic action caused by ergot both corstatement that neither ergot itself, nor any of the It has long been recognized that the iron entering numerous commercial European, and American, preparations that he has examined, retains their thera-York Medical Journal, April 17, 1886.

BENZOATE OF COCAINE.—SENOR ALFREDO BIGNON, recommends the employment of the benzoate of co-Hematogen markedly resembles hemoglobin in caine in preference to the hydrochlorate (the salt effect of the former salt persisted for a much longer Starting from these premises, Bunge's explanation time than that of the latter.—Lancet, Feb. 20, 1886.

THE

# PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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## SATURDAY, MAY 8, 1886.

## THE PRESIDENT'S ADDRESS.

with more than usual interest by those members of from the titles of the papers that have been published in the Association who believe, despite certain recent those Transactions is very apropos just now. That pessimistic uttterances to the contrary, that the such assertions have been made seems to show pos-American Medical Association has been and still is a litive ignorance of medical literature on the part of great power for good in this country. In the matter some members of the profession. There is scarcely of medical education it must be regarded as a sig- a subject in the whole range of medical literature that nificant fact that one of the earliest reports issued by has not at some time been treated of in papers puba Committee of the Association was one "Upon a lished in the Transactions of the Association. So taken by the American Medical Association. The style themselves "representative." first step towards the separation of the powers teachand rights of the physician.

Certain members of the profession who, for financial out them. reasons, have repudiated the defined duties of physicians, have sought to shield themselves by saying that gentlemen require no written rules for behavior, need for one may be seen by referring to almost any much the same way as we may imagine a string run-

current number of the British Medical Journal. Journal of the American Medical Association. That it is a necessity in this country is seen by the fact that every State Medical Society in this country, with one exception, has embodied the Code of Ethics of the American Medical Association, or an allegiance to its principles, in its constitution; and in the one exception it was repudiated by a minority meeting. The citizen may say that the gentleman has no need for a written criminal code; but the criminal code is made for the protection of good citizens as much as for the punishment of the bad. In everyday life it is the criminal class, the anarchist, communist and socialist, who complain of the stringency of the laws-not good citizens, who recognize and fulfil the duties of man to man.

The outspoken assertions of the enemies of the Association, some of whom are members of it, that the day of its usefulness has past, that it has never been a scientific body, and that it was never intended as such, is easily disproved by consulting the volumes The address of President Brodie will be read of its Transactions, and, Dr. Brodie's few selections Uniform and Elevated Standard of the Requirements far from the day of its usefulness being past we may for the degree of Doctor of Medicine," and that in say that the sun of its usefulness has by no means every college in which the recommendations of this reached its noon. The medical profession of this report have been adopted the results have been satis- country will not be content to sit and see a few men factory; and these colleges are now looked upon as arrogate to themselves all the learning, all the prestige, the leading colleges in the country. The first steps and everything else which goes to make the complete taken in this country towards the requirement of pre- professional man. Our country, our customs, and liminary education for the study of medicine were institutions are too democratic to allow a few men to

The American Medical Association is entitled to ing and licensing was taken by the Association, and the hearty support of every member of the profession there is now not a State in the Union in which the who has the good of the profession at heart-every medical men are opposed to such separation. And one, in short, who has entered upon the study and it was a committee of the Association that first de-practice of medicine as a science, an art, a great and fined, on a basis of religion and morality, the duties noble calling. As to those who have come in to make it a trade, the Association is better off with-

## REFLEX ACTION AND INITIBITION.

Reflex action, says Lauder Brunton, is the effect and attempt to fortify their position by saying that produced by an impression made upon a sensory there is no Code in England. That there is a Code nerve, transmitted by that nerve to a nerve-centre, of Ethics in England, and that there is a positive and reflected or thrown back along a motor nerve in ning over a pulley and transmitted in a different di- the further side of this cord is divided into several produce both effects at the same time.

one which bears a sensation to a central organ should About ten years ago Mr. Teevan reported a most innot be made. An impression borne along a sensory teresting case of incontinence which obstinately renerve may affect the nutrition of a tissue, or it may sisted all treatment until a fistula in ano was cured. produce voluntary or involuntary motion—affect a In the consideration of the subject of reflex action untary muscles which may be affected may be classed ganglia may act as independent reflex centres. Pigthe muscular fibres of the blood-vessels, and move-mentation may be excited reflexly by cutaneous irrialways produces a given and the same effect.

rection by the other end to produce a certain effect. strands, the nearer side being single, and as we may And if we suppose the further end of the string to be have several results from pulling on the nearer side divided into several strands, each of which is attached by reason of the subdivisions at the further end, so to a different object, and which may be, separately or we may have a subdivision of the nearer side of the together, affected by a pull on the nearer end of the cord, while the further end is single; it is apparent string, we will have a still more clear idea of reflex that we can produce the same result by traction on action, since the impression on the sensory nerve may any one of the strands of the further side. Or we bring about various results, depending on the strength may illustrate this by taking the example of the teleof the impression and the efferent nerve channel phone bell and the transmitter. The person at the along which it is sent back by the nerve-centre. other end of the wire turns the crank and our bell While it is to be remembered that a reflex movement rings; we place the transmitter to the ear, and though is one caused by the stimulation of an afferent sensory the other person may continue to turn the crank our nerve, it should also be remembered that voluntary bell no longer rings, though we receive in the ear the activity is excluded in a purely reflex act. Again, we peculiar ticking sensation indicating that the crank is must judge of what is going on in an afferent nerve being turned. Irritation of the uterine nerves by the by the effect produced in a central nervous organ, presence of a fœtus may cause vomiting, or it may in the way of exciting or modifying automatic or cause paralysis, as in a case reported by Jolly about reflex action, or in affecting consciousness; and a year ago, which, while he attributes it to an hysterhere we are met with the difficulty of clearly distinical condition, was nevertheless caused by centripetal guishing between the events belonging solely to the irritation. The sphincter of the neck of the bladder afferent nerve, and those of the central organ. We and the muscular walls of the organ may be reflexly know that an afferent impulse passing along an affe- excited to contraction, and there may be reflex inrent nerve may give rise to reflex movements, or may continence or reflex retention. The presence of modify existing reflex or automatic actions, or may ascarides in the rectum may cause incontinence of urine, and so long as the ascarides remain we may The mistake of supposing that a sensory nerve is vainly employ drugs for the relief of the incontinence.

voluntary or involuntary muscle. Under the invol- it is of importance to remember that the sympathetic ments caused in them produce the vascular changes tation in the frog when the brain and cord have been (which may be greatly influenced by impressions made destroyed. The uterus possesses within itself all the upon sensory nerves) which play an important part elements for a reflex arc, as shown by the fact that it in nutrition and secretion. We know that stimula- can act independently by expelling the fœtus after tion of a nerve—and we may even say one fibre of a the death of the mother. A very important contrinerve-may cause reflex action under certain cir- bution to this subject was the paper read by Dr. cumstances, and under other conditions give rise only Woakes at the London meeting of the International to a sensation; and thus it is that an afferent nerve Congress, in which he shows both the independence is frequently spoken of as a sensory nerve. It has of at least the vaso-motor portion of the sympathetic, been thought proper by some to classify the centri- and of its many connections with the cerebro-spinal petal or afferent nerves as sensory, nerves of special system. He speaks of the inferior cervical ganglion sense, and reflex or excito-motor nerves. And the as a correlating nerve centre; which must mean that division is perfectly proper, if we remember that no it is a reflex centre. It is a well-known fact that in sharp line of distinction can be drawn in the way of prize fights a blow on the neck will cause unconsupposing that the stimulation of a nerve of one class sciousness more quickly and with less injury than any other blow about the head. The explanation is that These considerations lead us up to the subject of the shock to the cervical nerves is propagated to the transference of impressions. We have spoken of the inferior cervical ganglion, thence reflected to the cord passed over the pulley: let us now imagine that vertebral artery as a wave of vessel dilatation, this wave is first appreciated in its peripheral branches, sciousness is the result.

branches of the fifth nerve. In the waking condition thing that cannot possibly injure the patient."

confusion by unintelligible explanations.

#### DRUGGING IN THE DARK.

producing an instantaneous large accession of blood Such is the practice complained of by a corresto them. This accession of blood in the internal pondent of a contemporary, who finds that many auditory branch of the vertebral artery causes sudden physicians administer medicines in what seems to be tension of the intra-labyrinthian fluid and uncon- a reckless and unscientific manner,-"Strychnine, arsenic, digitalis and aconite, are favorite remedies in We know that irritation of a sensory nerve will all sorts of diseases." Used in this connection, we cause dilatation of the vessels in the part supplied by may very well object to the word remedies; in other the nerve, and vascular contraction in other parts of respects we must agree with the complainant, adding the body. As a rule this takes place without affect- that in America quinine seems to hold a high place ing the action of the heart; but the irritation may be in the list of drugs that are prescribed when there is so strong, or applied so directly to certain nerves, some little doubt as to the diagnosis. "Pills and that the heart is affected, as is the case when the fifth mixtures containing many poisonous drugs are comnerve is strongly irritated. The fumes of ammonia, monly prescribed, even when the practitioner is quite strong acetic acid or chloroform when passed into the in the dark as to what the cause of the disease may nostrils of a rabbit may suddenly and completely ar- be. With some, the rule is, when the cause is rest the heart. Not without reason does Dr. Brunton unknown, to mix a great many poisonous stuffs, in attribute the numerous deaths which have occurred the hope that one of them may hit the enemy A when teeth were being extracted under chloroform wiser and safer course would be, when the diagnosis to an arrest of the heart by irritation of the dental is uncertain, to give, in the name of remedy, some-

the irritative effect on the heart from the extraction. We are not at present prepared to say whether or of a tooth is counteracted by the coincident contrac- not this is a growing evil; though it is to be hoped tion of the arterioles all over the body; but under that it is not. Without doubt it is due to a great chloroform the two reflexes are not equally influenced extent to a habit of making "snap" diagnoses, or of by the drug, and the reflex action upon the heart may making no diagnosis at all. When a diagnosis canremain after that upon the vessels has ceased; in this not be arrived at immediately, a physician will often case the heart stops because the blood drains away prescribe what he thinks will do no harm, with the from the arteries into the veins-or to use the simile hope that he can get at the truth of the matter when of Ludwig, the animal bleeds to death into its own veins. he next sees the patient. This may be due to a sus-Closely connected with this subject of reflex action picion that the patient thinks that he should be is the phenomenon called inhibition. The inhibitory taking medicine; since the idea of taking medicine nerves may be defined as those nerves which modify, whenever possible is deeply rooted in the minds of inhibit, or suppress a motor or secretory act already the laity, as shown by the enormous amounts of in progress (Landois); we may then say that inhibi- patent medicines used. In very many cases, howtion is the modification or suppression, through nervever, a certain combination of drugs is given because ous influence, of a motor or secretory act already in some of the symptoms point to a particular affection, progress. Probably the most familiar example is the and this combination has been prescribed for that stoppage of the heart by a blow upon the belly, or a affection by a teacher or some eminent physician. blow upon the intestine of the frog with the handle of This is evinced by the books containing formulæ, the scalpel. This is nothing more than the suppres- compilations of favorite prescriptions, and ready sion of the discharge of reflex action. But some of reference books which seem to find such a ready the examples given under reflex action are really ex-sale. It is often very difficult to convince a patient amples of inhibition. It is only necessary to rememthat he does not need medicine; but it is just as imber that a reflex act may be inhibited or augmented portant that the physician should know when not to or that an augmented reflex action may be inhibited, give medicine as when to give it. Possibly more We see augmented reflex action in some cases of hys- "drugging in the dark" is done in renal and cardiac teria inhibited by pressure on the ovaries - an- affections than in any others, on account of an apparother example of suppression of the discharge of ent obscurity connected with them. Much of this is reflex action. There need be no especial difficulty due to the fact that the urine is often improperly in comprehending the subjects of refiex action and examined, and frequently not examined at all. Much inhibition, though some physiologists have created sad useless, or even harmful drugging would be done away with, if physicians would thoroughly acquaint

themselves with the principles and significance of of the motor qualities of the anterior roots and the arterial tension-increased and decreased. After all the whole matter is resolved into the one principle: Never give a dose of medicine without a clear and definite object in view, and a definite idea of the have been the idea generally entertained. Is this a result to be attained.

## PROFESSOR WILLIAM S. FORBES.

DR. WILLIAM S. FORBES, for several years Demonstrator of Anatomy in the Jefferson Medical College of Philadelphia, was appointed, at the meeting of the Board of Trustees held on April 26, to the Chair of Anatomy, rendered vacant by the resignation of Professor William H. Pancoast. Apart from the eminent fitness of Dr. Forbes for the position, his appointment is a just rebuke to those who, about three years ago, instigated against him a most malicious prosecution and persecution. Since he was appointed as Demonstrator of Anatomy in the Jefferson College Dr. Forbes has held a high rank as a red to. Philipeau and Vulpain divided in dogs the teacher of anatomy, and added to this his personal popularity with students is very great. He brings to his new position the triple qualification of a thorough anatomist, a good teacher, and a surgeon of most excellent judgment.

## SOCIETY PROCEEDINGS.

AMERICAN SURGICAL ASSOCIATION.

Seventh Annual Session, held in the Reading-room of the Army Medical Museum, at Washington, April 28, 29, 30 and May 1, 1886.

THURSDAY, APRIL 28-MORNING SESSION.

The meeting was called to order by THE PRESI-DENT, Moses Gunn, M.D., of Chicago, who delivered his Annual Address, of which the following is an

Custom, if not organic law, requires the President to open the proceedings by a more or less formal address. My immediate predecessor, in his address a year since, suggested that either a résumé of the mals there is an anastamosis of fibres between differprogress of surgery for the previous year, or ent nerves, forming an indirect route for the conducsome special scientific subject, should constitute the tion of nervous force. subject matter of the President's address. I propose indulge in a few thoughts on

CERTAIN POINTS IN THE PHYSIOLOGY AND SURGERY OF MOTOR, SENSORY AND MOTO-SENSORY OR COMPOUND NERVES.

Bell, no clearly defined effort had been made to dif-ferentiate the motor and sensory nerves. It remain-distal end of the latter with the proximal end of the

sensory qualities of the posterior roots. With this also came the idea that this difference was intrinsic, due to peculiarities in the anatomical and physiological organization of the nerve fibres. This appears to fact, or is the difference to be found in extrinsic conditions, viz., the anatomical organization at either end of the nerve, the nerve to trunk being simply a conductor of a form of force? Upon the facts of the case depends the possibility of satisfactory results in the section and physiological reunion of divided compound nerves and the grafting of one compound nerve upon another where there has been so great a loss of the trunk of the nerve as not to permit the approximation of the distal and proximal portions of that nerve. Success in achieving satisfactory results by such operations or a uniform lack of success must afford a tolerably reliable answer to these interrogatories, much more reliable than experiments on some of the inferior animals. Experiments on animals require severe scrutiny, or they may mislead. Some of the experiments on animals were then referpneumogastric and sublingual nerves, and united the central end of the pneumogastric with the distal end of the sublingual. They also divided the lingual branch of the fifth nerve and the sub-lingual, uniting the central end of the lingual branch of the fifth nerve to the peripheral end of the sub-lingual and tearing out the central end of the sub-lingual. The result of these experiments was that after a time motion and sensation was restored. Other similar experiments were cited.

In April, 1880, Dr. E. P. Davis made for the speaker the following experimental operation. Under an anæsthetic, the axillary plexus was exposed. The median was severed after its bifurcation and also the ulner and radial. The outer head of the median was united to the ulnar. The inner head of the median was united to the radial in the same way. At the end of ten days, the dressing was removed and complete paralysis of motion and of sensation found. In four weeks this began to disappear and later a perfect condition of motion and sensation was observed. By this operation the distal portion of the median was left entirely without nervous supply, and yet there was no paralysis of muscles or integument supplied by this portion of the nerve. Latter investigation showed that in the dog and certain other ani-

Nerve suture in man has become a recognized to comply with the spirit of this suggestion, and shall operation both as a secondary and primary procedure. It must be concluded from experiments that motor, sensory and trophic powers depend not on the nerve itself, nor on a difference of nerve force, but on the organism at the end of the nerve itself. Professor Stephani is reported to have succeeded Previous to the investigations of Magendi and four times in uniting the distal end of the median ed for these investigators to clearly establish the fact former. Immediately following the operation was

complete paralysis and atrophy, but in the course of six or eight months, there was not only restoration of muscular power, but harmony of action to an extent sufficient to permit the animal to run, but perfect

extending power was not realized.

rior animal to replace extensive loss of nerve struc- topher Johnston. ture will probably be of too uncertain success to constitute a standard operation, but can the grafting of the distal end of a nerve in such a case upon the side of or into the trunk of an adjacent nerve secure to it a supply of nerve force? Experiments made by Kawa would indicate that such might be the case. To establish this point experiments on dogs are valmedial nerve were partially restored.

over the terminal phalanges.

The positive evidence which these two cases fur- are to be considered a certain gain. nish at so early a date, warrants further effort in this correctness of the postulate, that the function of a its ends and not upon any intrinsic quality.

ciation. We have come together to make and renew gation and thought.

As to the new friendships which shall ensue, let us tract. hope that they will equal the old; and in the renewal warmer; while in the spark which shall fly from the a great variety of instances. clash of thought let there be only the fire which puriselves and profitable to surgical science.

A proposition to form a

CONGRESS OF AMERICAN PHYSICIANS AND SURGEONS

was discussed, and referred to a committee of three to report Thursday morning, the committee consisting The intergrafting of a section of a nerve of an infe- of Drs. J. Ewing Mears, Wm. T. Briggs and Chris-

#### AFTERNOON SESSION.

Dr. Christopher Johnston, of Baltimore, read a paper entitled

#### DIAGNOSTITIAL LAPARATOMY.

This operation is as ancient as our race, but in ueless on account of the free anastamosis. We must early times was always practiced on the cadaver. look for the solution of this question to the rare The first operation on the living subject was probopportunities met with in the course of surgical prac- ably performed about the year 1600. The rapid tice to institute experimental operations on man. A advance of abdominal surgery now demands the atcase has been reported by Després, where there was tentive consideration of surgeons, and requires the such extensive destruction of the median nerve as to expression of opinion as to the position of the line preclude the possibility of approximating its ends. limiting interference in certain classes of cases. The He therefore engrafted the distal end of the median question in abdominal lesions arises, how shall the with the trunk of the ulnar. Fifty-four days after the seat of the pathological change be reached? The operation the functions of the parts supplied with the answer is laparotomy, which makes the diagnosis positive in cases of doubt and is preliminary to other On December 1, the speaker had occasion to operations which may be required. If the surgeon resect the right ulnar nerve in the removal of a neu- has no right to refuse to give aid to a fellow creature roma in a male patient aged thirty-six years. The becoming asphyxiated from obstruction in the air distal portion of the divided nerve was grafted to the passage, has he the option of refraining from surgical trunk of the median. The sheath of the median was interference when the prima viæ are obstructed in removed and the broadly chamfered end of the ulnar their functions? The answer to this question hangs laid in contact with it and secured by three fine cat first upon the diagnosis, sometimes upon the record gut sutures. Immediately after the operation there of the past, and not infrequently upon the wise boldwas complete paralysis of the parts supplied by the ness of the surgeon. The propositions then are, first, ulnar. On the eighteenth day there was a slight that for abdominal surgical affections all possible return of sensation along the ulnar side of the ring operations ought to be attempted after the establishfinger and there seemed to be some contraction of ment of a precise diagnosis; and second, that when the flexor carpi ulnaris. Four months after opera- a just diagnosis cannot otherwise be reached it may tion, the patient could feel a slight touch on the ring and ought to be eked out by an exploratory incision. finger, no sensation to touch in the little finger, but The mortality of abdominal incision without complian increased warmth in it. He can adduct the hand cation is low. A great consecutive mortality following with considerable vigor, but as yet has no power a surgical procedure in no wise determines the want of value of the operation, while most cases recovering

The record with regard to diagnostitial laparotomy direction, and corroborates the other evidence of the is very brief, for as a rule, when the surgeon approaches the case the diagnosis is already nearly given nerve depends entirely upon the machinery at positive. The gravity of the operation is largely determined by the time at which it is performed. Favored by your kindness manifested one year ago, The abdominal incision intentionally diagnostitial is it is my duty to preside over your deliberations in fraught with so little comparative ill consequence this seventh session of the American Surgical Asso- that its high value or necessity may be fairly claimed as an established and proper aid to diagnosis. Of all friendships and to impart to one another and to the operations involving laparotomy, those involving the surgical world the results of our experience, investi- uterus and its appendages probably fill the largest space. Next we have those involving the alimentary

Besides being a justifiable operation, abdominal of the old, let the grip be firmer and the heart still incision becomes the bounden duty of the surgeon in

When is exploratory laparotomy called for? It fies the subject, enhances esteem and cements friend-should be stated that to a certain extent every laparship. So shall our discussions be honorable to our- otomy is diagnostitial. Without establishing unnec-\*essary groups, two great classes in which exploratory laparotomy is demanded or permissible are to be favor of opening the abdominal cavity rather than recognized. First, all sorts of cases in which the cultivating that essential skill by which the diagnosis diagnosis cannot be made without its aid. Sec- may often be made without resorting to operation. ond, all those cases in which, a diagnosis having Tait's assertion that opening of the abdominal cavity been made, no definite line of operation can be is a matter of very little consequence has led many marked out and no abandonment of active measures of the younger members of the profession to perform be entertained or justified. Laparotomy holds the this operation without due consideration. Having key in all cases of doubt as to what is the matter and what is to be done. In intestinal cases, the early that if the patient's life depends upon it, we should operations are those which save life the oftenest, but open the abdomen. In intestinal obstruction the abandonment ought not necessarily to follow delay abdomen should be opened; many lives have been in invoking the surgeon's aid.

was no doubt that experience showed us that simple in the case of gunshot wounds of the intestines. incised wounds of the abdomen without injury to the vance on the old method of using sutures including through such punctures. all the layers of tissue. Where there is great distenthe gas to escape, and then closed the opening with whom the obstruction had lasted seven days.

The tendency at the present time seems to be in much harm. It is also very desirable that there should

exhausted other methods of diagnosis, he thought lost by want of courage on the part of the surgeon. DR. A. VANDERVEER, of Albany, said that there There is no question as to the duty of the surgeon

Dr. Charles T. Parkes, of Chicago, said that abdominal organs will usually heal without difficulty, the paper insists upon the necessity of exhausting all even if left to themselves. The mortality is very other methods of diagnosis before resorting to laparslight indeed. Even when the injury is more serious otomy. He thought that the size of the incision recovery often follows. The cases which give anxi- makes very little difference so far as the final recovety are those in which the bowel is injured and its ery is concerned, but where the incision extends above contents escape into the abdominal cavity. These the umbilicus, recovery is slower and attended with die inevitably if nothing is done. In these cases laparotomy should be performed. This operation is which he had seen where post-mortem followed, there often opposed by the friends of the patient and often was no evidence that the abdominal incision had anyby the attending physician, and much is to be done thing to do with the fatal issue. In regard to the in the direction of teaching the profession and the operation in cases of intestinal obstruction where the public the importance of early operation in these exhaustion is extreme, several years ago, he was cases. Cases were cited of gunshot injuries of the called to see a case of nine days' standing. The paintestine and of rupture of the intestine produced by tient was in a state of extreme collapse, was put to external violence in which the operation might have sleep and the abdomen opened. A small cyst was saved life if it had been permitted by the friends of felt immediately beneath the fingers. It ruptured the patient. The operation, as a rule, will not be al- and a quantity of offensive pus escaped into the lowed until the patient is in collapse, and it is then abdominal cavity. This patient recovered. The abtoo late. The masses must be educated to the neces- dominal opening should be made in the median line. sity of laparotomy in the cases referred to. This He thought that he had seen cases in which death has operation should be done more frequently in the followed from the fact that the incision was not thus future than in the past. As regards the mode of made, the surgeon being satisfied with enlarging the operation, the incision in the median line is by far original wound. In regard to closure of the wound, the best. In some cases it would be impossible to he considered the simple suture going through all the reach the seat of disease by any other incision. In tissues the best. Where there is much distension of the closing of the wound some recommend several the intestine the bowel should be opened. He did lines of sutures uniting the different layers of tissue not favor the use of the exploratory needle. In two separately. He does not believe that this is any ad-instances he had seen extravasation of fecal matter

DR. MCLANE TIFFANY, of Baltimore, referred to sion of the bowel in intussusception the discovery of four cases of what he believed to be intestinal obthe seat of trouble is greatly facilitated by a pro-cedure which he had seen Tait adopt in such a case. died; two accepted, and one of these recovered. He opened the distended coil of intestine, permitted The case that died was that of a woman aged 73 in intestine was enormously distended, and in the exam-Dr. J. EWING MEARS, of Philadelphia, in con- ination ruptured with the escape of the gas. After sidering diagnostitial laparotomy, would arrange the this it was extremely easy to find the seat of consubject in this manner: First, external manipula striction. He thought that shock would be less if tion; second, internal examination where this is the intestine is emptied. He agreed with the speaker possible; third, aspiration; and finally laparotomy, as to the great value of laparotomy as a diagnostitial Laparotomy is much the most serious of all these operation. It is not possible for any human being to methods. In this discussion the subject of laparotomy recognize through the abdominal walls the manifold as a means of treatment does not call for considera- conditions of the organs present. In regard to pistion. The more experience he gained the greater was tol wounds of the abdomen, it frequently happens his conviction that the abdominal cavity should not be that the intestines escape injury, and in these cases it opened without due consideration. Death is a severe is a question when the operation should be done, penalty to pay for the perfection of the diagnosis. The opening of the abdomen will probably not do be in hospitals special rooms devoted exclusively to erties—if this is possible at all, some different methods this class of operations.

Dr. J. Ford Thompson, of Washington, reported hitherto been employed. two cases of laparotomy for the purpose of diagnosis. A woman aged 35 years had the history of an ab- tion is not likely to be successful. dominal tumor lasting for several years. It presented ation. One of the sinuses was traced back to the suppuration. peritoneum without reaching any satisfactory explanation of the tumor. The peritoneum was then dence of all workers in this field of research. opened and the finger introduced, but no tumor in the tinguished. The wound was closed and the patient of the inflammatory and suppurative processes. recovered from the operation. The patient subsequently died, and the post-mortem showed that the the same micro-organism in different individuals detumor was an enlarged spleen which had fallen down pends upon influences outside of the bacteria thembelow the umbilicus and become attached to the ab- selves.

movable tumor in the right hypochondriac region. ceived into the system, and of the locality or lesions It proved to be a carcinoma involving the transverse by which it gains access, and also by variations in colon. There was also an attachment of the growth the individual condition—the personal equation being to the liver. The abdomen was closed, the patient a very large factor in making up the sum of any rerecovered from the operation, and is still living.

Dr. Johnston, in closing the discussion, said that there is a certain amount of hesitancy on the part of observations made by Dr. Ernst confirm those made surgeons in regard to operating in cases of abdom- by other observers, showing very conclusively that inal injury, on account of the people and on account the suppurative processes are dependent upon vegeof juries. To overcome these objections it is neces- table organisms. The most interesting part of the sary to educate the public to the true state of affairs. paper is that which relates to chronic suppuration. In those cases where the bowel is opened laparotomy The author has been, he thinks, the first to show that leads us to the seat of disease, and if anything can chronic suppuration is due to the same micrococci as be done we are then able to do it. He was happy to the acute form. find his opinions supported by so many of the able minds of the profession.

# THURSDAY, APRIL 29-SECOND DAY.

MORNING SESSION.

THE PRESIDENT IN THE CHAIR.

DR. HAROLD C. ERNST. of Jamaica Plains, Mass., read a paper entitled

## A CONSIDERATION OF THE BACTERIA OF SURGICAL DISEASES.

teria met with in wounds, chronic abscesses, erysipe- isms. As we cultivate bacteria in different media we las and other surgical affections, and an account of find a change in their form. It is perhaps possible numerous experiments on animals, with an exhibition that they may gradually change by alteration of the of specimens in culture mediums and under the medium, of its chemical composition or of its temmicroscope, the author presented the following conclusions:

- powers of these organisms indefinitely.
- 2. Their permanence of form is also well estab-
- pathognomonic forms or of their morphological prop- sired to say a few words in regard to the conditions

of investigation must be used than those which have

4. The probabilities indicate that work in this direc-

5. So far as the experiments go they tend to show the appearances of an ordinary ovarian tumor with that no form of the suppurative process in man is the exception that it had two sinuses communicating unattended by bacteria, and that the inoculation in externally. After frequent examinations by various the lower animals of pure cultures of these bacteria surgeons it was decided to make an exploratory oper- is followed by more or less acute and extensive

6. The above conclusion is supported by the evi-

7. That a number of different clinical phenomena cavity could be felt. Towards the abdominal wall a may be produced by the same organism, all of these mass apparently imbedded in the tissues could be dis-phenomena, however, coming under the general head

8. That the difference in the results produced by

9. That these differences are the result of differ-The second case was one of apparently freely ences in the amount of the infectious material results in bacteriological work.

Dr. S. W. Gross, of Philadelphia, said that the

Dr. J. S. BILLINGS, of Washington, said that a mere verbal statement of the difficulties which attend these experiments gives no definite idea of the difficulties encountered in this work. It is only by personal experience that they are learned. The methods now employed are much more satisfactory than those in use some twenty years ago. One of the difficulties in considering the probable relation between cause and effect in this work is that there seems to be no relation between the number of micrococci present and the effect produced. A second difficulty is that we are by no means sure of the specific differences After an extended description of the various bac- between these various forms of microscopical organperature. In connection with this subject, a study of the chemical conditions under which these organ-1. The experiments conducted over so long a time isms exist is necessary. It is very desirable that the with the successful inoculation at the end of that time, practical surgeon should have at his disposal the indicate very plainly the retention of pathogenic means of determining the presence of these organisms in any given case.

DR. N. SENN, of Milwaukee, said that he was in full accord with the conclusions of Dr. Ernst, and 3. In order to obtain either a modification of their did not intend to criticise what he had said. He dewhich predispose to the action of germs introduced in the City of Washington; the constitution and bypresent in the body for a long time and produce no determined upon by the convention in session. effects until the occurrence of traumatism, as a fracture, favors the localization of the microbes.

Dr. David Prince, of Jacksonville, Ill., exhibited a diagram and described a form of room where

#### A STERILIZED ATMOSPHERE

could be secured for the patient by means of air treated with corrosive sublimate and forced through a tube opening immediately above the seat of operation.

The report of the committee appointed to consider the proposition for the organization of a

## CONGRESS OF AMERICAN PHYSICIANS AND SURGEONS,

offered at the meeting of Wednesday by Dr. C. H. In view of the fact that there are a number of special resolution was adopted. medical organizations now in existence in the United States, each having for its aim the advancement of committee on Friday. the special department of medicine for which it was organized, and since the members of the said special societies are the representatives of the profession in America, many of whom are at the same attendance at the meetings required separate trips from home, often with much loss of time. Therefore it appears necessary that some arrangement should place and time of meeting.

The plan proposed is to unite the following named gress of American Physicians and Surgeons:" The American Surgical Association, the American Ophthalmological Association, American Otological As-Association, American Neurological Association, Gynæcological Association, American Dermatological Association, American Climatological Association, and the American Clinical and Pathological Association. The plan of organization embodies the pancreatic juice is removed by absorption. following: Each society is to elect its own officers; and place of meeting; publish its own transactions is not incompatible with health. and do all other acts which by virtue of its constitution and by-laws it has the inherent right to do, thus pancreas is invariably followed by progressive degenpreserving its own autonomy.

The Congress to be composed of these special societies when in convention and its meetings to be held toneal cavity does not produce peritonitis.

into the body. The object of the surgeon should be, laws of the Congress to be formed by a committee of in the first place, to prevent the introduction of these like number from each special society, the opening germs; and in the second place, to secure inocuity to session of each annual meeting of the Congress to be the infection by preventing the occurrence of predis- devoted to such general business as may pertain to posing causes. The first predisposing condition is the interests of the Association as a whole. The found in an unusual arrangement of the capillary cir- Congress being presided over by a President elected culation. This is well illustrated in osteo-myelitis. annually and who must deliver an opening address on In this affection the germs are found in greatest the first day of the session. The President to be abundance in those situations where the anatomical chosen by a nominating committee of one from each relations of the vessels predispose to engorgement special society; the Presidents of the special societies and localization of the microbes, this is in the large to be Ex-Officio Vice-Presidents of the Congress. vessels about the centres of ossification in the epi- Membership in the Congress is to be acquired only by physes of bones. The second predisposing influence virtue of fellowship in one or another of the special is traumatism. The germs of osteo-myelitis may be organizations. The other officers to be elected as

We disclaim any intention of offering an obstacle or opposition to any other organization in America. We propose simply a plan of uniting into one great body the already existing special societies, and we do so from an honest conviction that such a union will prove of inestimable benefit to them individually and

The committee appointed to consider this proposition, reported that they viewed with great satisfaction the perfection of a plan through which the meeting of the above named societies at the same time in Washington may be accomplished, and recommended the adoption of a resolution that a committee of five be appointed to confer with committees from other MASTIN, of Mobile, was called for. The following is special organizations to arrange details, and to report an outline of the main points of the proposition: at the next annual meeting of the Association. The

THE PRESIDENT stated that he would name the

#### AFTERNOON SESSION.

Dr. N. Senn, of Milwaukee, read a paper entitled time members of several of these special societies, THE SURGERY OF THE PANCREAS AS BASED UPON EXPERIMENTS AND CLINICAL RESEARCHES.

The following conclusions were presented:

- 1. Restoration of the continuity of the pancreatic be made with the different societies as to an uniform duct does not take place after complete section of the pancreas.
- 2. Complete extirpation of the pancreas is invaria-Associations into a Congress to be called "A Con- bly followed by death, produced either by the traumatism, or gangrene of the duodenum.
  - 3. Partial excision of the pancreas for injury or disease is a feasible and justifiable surgical procedure.
- 4. Complete obstruction of the pancreatic duct, American Laryngological Association, American uncomplicated by pathological conditions of the parenchyma of the organ, never results in the formation of a cyst.
  - 5. In simple obstruction of the pancreatic duct the
- 6. Gradual atrophy of the pancreas from nutritive hold its own sessions apart from the others at the time, or degenerative changes of the secreting structures
  - 7. Physiological detachment of any portion of the eration of the glandular tissue.
  - 8. Extravasation of pancreatic juice into the peri-

moved by absorption, provided the site of operation remains aseptic.

10. Complete division of the pancreas by elastic constriction is never followed by restoration of inter-

rupted anatomical continuities.

11. Limited detachment of the mesentery from the duodenum, as required in operations upon the pancreas, is not followed by gangrene of the bowel.

12. In all operations upon the head of the pancreas the physiological attachment of the peripheral portion of the gland should be maintained by preserving the integrity of the main pancreatic duct.

13. Partial excision of the splenic portion of the pancreas is indicated in cases of circumscribed abscess and malignant tumors, in all cases where the pathological product can be removed completely without danger of compromising pancreatic digestion or of inflicting additional injury upon important adjacent organs.

14. Ligation of the pancreas at the point or points of section should precede extirpation as a prophylactic measure against troublesome hæmorrhage and the extravastion of pancreatic juice into the peri-

toneal cavity.

15. The formation of external pancreatic fistula by abdominal section is indicated in the treatment of cysts, abscess, gangrene, and hæmorrhage of the pancreas due to local causes.

16. Abdominal section and lumbar drainage is indicated in cases of abscess or gangrene of the pancreas, where it is found impossible to establish an anterior abdominal fistula.

17. Through drainage is indicated in cases of abscess and gangrene of the pancreas with diffuse burrowing of pus in the retro-peritoneal space.

18. Removal of an impacted pancreatic calculus in the duodenal extremity of the duct of Wirsung by taxis or incision and extraction, should be practised in all cases where the common bile duct is compressed or obstructed by the calculus and death is threatened by cholæmia.

19. In such cases, the principal source of danger, extravasation of bile into the peritoneal cavity should be avoided by preliminary aspiration of the dilated bile ducts, accurate closure of the visceral wound with fine silk sutures and absolute physiological rest of the organs of digestion, during the time required in the healing of the visceral wound.

Dr. Chas. T. Parks, of Chicago, read a paper supplemental to his paper of last year, reporting

#### TWO CASES OF CHOLECYSTOTOMY,

both of which ended fatally.

Case 1, was that of a woman who had suffered with gall stones for six years. The attacks of colic occurred as frequently as every week. Operation was decided upon. The gall bladder was found contracted and reached with difficulty. calculi were removed.

other symptoms of the obstruction of the flow of bile. Vaginal examination showed procidentia, the os pro-

9. Crushed or lacerated pancreatic tissue is re- There was enlargement of the liver. The operation showed that the gall bladder contained no calculi, but that the obstruction was caused by a body outside, which seemed to be an encysted calculus pressing on the duct. The gall bladder could not be The patient died within twenty-four hours, and the post mortem revealed the shrunken gall bladder with the induration, which contained a gall-stone, pressing on the duct.

DR. W. H. CARMALT, of New Haven, Con., related a case in the same line with these reported by Dr. Parks. The patient, a woman 37 years of age, had suffered for several years with indefinite dragging sensations in the right hypochondriac region. This incapacitated her from performing her household duties. In 1883, she stated that she had been operated on in Berlin for gloating kidney, and in evidence showed a large scar in the lumbar region. She also stated that three weeks after operation, as a result of violent sneezing, the organ had become loosened. She went to him for the purpose of having the kidney removed. Examination showed the abdomen to be exceedingly pendulous. The tumor was rounded, and could be readily grasped between the fingers; it was very movable. It was decided, after keeping the woman under observation for some time, that the tumor should be removed. An incision was made just external to the recuts muscle over the tumor. When it was exposed, it was at once evident that it was not the kidney. Further examination showed it to be a dilated gall bladder. An aspirator was introduced, and four ounces of inspisated mucus drawn The needle revealed the presence of a hard body. Manipulation brought the gall stone up to the most accessible part of the bladder, and securing the gall bladder by two ligatures, he opened it and removed a stone as large as the end of his thumb. Four other calculi were found. After thorough cleansing the gall bladder was closed with a continuous cat-gut suture. The wound in the peritoneum was closed in the same way. The muscles were united by interrupted silk sutures, and a continuous catgut suture was used for the incision in the skin. The patient recovered without difficulty and is now able to attend to her duties, feeling better than for a long time.

The report of

A CASE SIMULATING AND BELIEVED TO BE ABDOMINAL PREGNANCY AT FULL TERM-LAPAROTOMY, CÆSAR-IAN SECTION, AND REMOVAL OF A LIVING

CHILD WEIGHING SEVEN POUNDS,

by Dr. John S. Coleman, of Augusta, Georgia. In the absence of the author, the paper was read by the Secretary.

On February 27, 1886, the writer was requested to see B. A., colored, primpara, twenty-four years old. The attending physician believed her to be the sub-Forty-three ject of extra-uterine pregnancy. She thought herself at the end of gestation, and for three days had suf-Case 2 was that of Mrs. H., who for the past two fered with pains which were quieted by the adminisyears had suffered with attacks of pain lasting four or tration of laudanum. The entire abdomen was five days of each week. There was jaundice and greatly distended, particularly in the upper portion. jecting three inches beyond the labia. The os was whole arrangements being under the charge of a

incision six inches in length was made in the linea massage, and are worked by an engine. The pa-alba. The tumor exposed much resembled the preg-tients work the active ones themselves. Some of nant uterus. The incision was extended above the the machines look odd enough in their action upon umbilicus uterus, and it was positively determined the human frame. That called "vibrating" is inthat the case was one of uterine pregnancy. The tended for shaking the various parts of the body. uterus was drawn forward, and its anterior wall cut Shaking of the back between the shoulder blades is through. He had not conceived it possible for the to give a specific effect upon the action of the heart, nterine tissue to be prolonged from the epigastrium to making the contractions less frequent and more efthree inches beyond the vaginal notch. A vigorous fective. Nervous palpitation is successfully treated female child weighing seven or eight pounds was in this way. The kneading machine is so arranged removed; the hemorrhage was not great; the placenta was removed without difficulty; the incision in the nterns was closed with deep and superficial catgut sutures; the peritoneum was closed with a continuous suture, and the abdominal wall with hairlip pins and superficial sutures. Antiseptic precautions were adopted throughout the operation. Septicæmia developed—the patient living four days.

At the autopsy there was found no decided injection of the peritoneum; two moderate-sized clots were found on the peritoneum; the cavity contained neary a quart of bloody serum. The uterus was onehalf its former size, measuring from fundus to exterthe tound was found gaping throughout.

The author then gave an extended view of the literature of the subject, and related similar cases by

various operators.

To the paper was appended a letter from Mr. Lawson Tait, endorsing the performance of abdominal section in the above case, and asserting his strong objections to operations looking to the breaking up of the fœtus. He thought that a preferable operaoperation. This would probably have been successful both as regards the mother and the child.

## FOREIGN CORRESPONDENCE

LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT.)

Another Lander Institute—The Peabody Industrial Buildings-Inquest on a Woman who died of Hydrophobia-The Wolf-bitten Russians.

don, in which fifty-two machines are to be seen, the thousand of the total population of the Peabody

sufficiently patulous to permit the entrance of the medical man. The treatment is throughout perfectly index finger. Rectal examination gave negative painless. Gentleness is, as a rule, the last idea one results. Palpation and auscultation showed the associates with machines, weights, levers, and pulleys, position of the fœtus to be dorso-anterior and oblique- but by Lander's mechanical methods it has been fully ly transverse. Placental bouffle could not be heard, secured. Massage applied by human hands would The abdomen was so large and the feetal heart sounds at first sight appear to be superior, but experience is so distinct that the writer also concluded that the proving that the advantage rests with well-regulated case was one of extra-uterine pregnancy. The machines. The hand of the rubber becomes tired, patient was examined by a number of surgeons, who and thus there is an almost constant variation of agreed in the diagnosis. The history and the symp- force, whereas the mechanical power continues its toms indicated that the patient was at the full term gentle movement without other increase or diminuof pregnancy, and it was decided that immediate surtion than those intentionally produced by altering gical interference was imperative.

tion than those intentionally produced by altering the adjustment of weights. The passive exercises On March 31, the patient was operated upon. An are arranged on a similar principle to that of the that the pressure of two rollers produces a kneading action. Cases of pain in the back are treated by means of a kind of couch, through the back of which two padded wheels roll along both sides of the spine. If necessary, one wheel can be raised higher than the other, and as with all the machines, the pressure can be adjusted to a nicety by the arrangement of the weights upon the lever. The friction-machine for the hands and feet resembles a miniature tread mill. It is useful in cases of rheumatic affection in the extremities. There are machines for shampooing the legs and the arms, assisting defective circulation and developing the muscles. The saddle and side saddle num twelve inches; the cervix measured six inches; are both passive, and are found efficient substitutes for horse exercise. Small india rubber hammers form of other machines the active portion for increasing the circulation inside and outside the scalp, or any portion of the body in which the muscles need stimulating. Sciatica has been cured, it is said, by applying these hammers to the region of the sciatic nerve. They can be raised or lowered so as to act upon any portion of the body.

From a recent report upon the cost and sanitary tion in the present case would have been the Porro status of the Peabody Industrial Dwellings it appears that the average cost of the buildings erected by the trustees is £60 10s. 2d. per head, so that a family of four persons costs a capital sum of £242 to house, which is a much larger amount than is ordinarily expended by the speculating builder. As regards the acquisition of land, the trustees have been singularly fortunate, three sites having been sold to them by the Metropolitan Board of Works for a sum which leaves a clear loss of £235,808, or more than a quarter of a million to the ratepayers. Taking land and buildings together, a family of four persons costs £510 to house. A warning note is struck in the statistics of the mortality among the inhabitants of Another Lander Institute has been opened in Lon-these dwellings. In the year 1884 the deaths per buildings were 19.10, as compared with 20.34, which plays for him and his system. Whatever may be was the London rate; but in 1885 the death-rate in one's opinion concerning the value of the discovery the dwellings was actually one decimal point above he has made, it is quite certain that the distinguished the general rate of mortality in London, the figures savant has but one earnest desire, to benefit his spebeing 19.60 in the Peabody buildings, and 16.59 for cies, and he ought not to be treated as a charlatan. the whole of the metropolis. It would seem from As for his Russian patients, it is perhaps regretable, these facts that, while the death-rate of London has in the interest of science, that they were not kept, as declined steadily since 1876, the death-rate in these he wished, another month or so in Paris under his model dwellings has increased, since 1881, from 17.22 personal inspection. During the present year fortyto 19.60 per thousand. It is considered that this in- one cases of rabies have been reported in London, crease is most probably due to the increased density and one death from hydrophobia due to inoculation of the population.

An inquest, which is likely to attract considerable attention in the medical world, was held in London on the body of an old woman who died of hydro- DOMESTIC CORRESPONDENCE Many cases of hydrophobia have been quoted in which, as far as any one knew, the deceased had never been bitten by a mad dog, but it was always possible that they might have been licked on some scratch or sore by a dog who was in an early To the Editor of the Journal: stage of hydrophobia, or that they might have been slightly bitten, but had thought the matter of so little NAL permit me to place myself on record as the first consequence that they did not mention it to any- to discover, and put in practice, the hypodermic adone. In the present case the hypothesis is scarcely ministration of carbolic acid for the cure of hæmorpossible. The deceased had lodged for years in one rhoids, carbuncles, poisonous bites, small tumors, house, and for months had not gone out. She had and foul and ill-conditioned ulcers. a dog to which she was very much attached. This dog is a very old one, being, it is said, seven or eight carbuncles and snake bites, with most wonderful succan never have escaped, for its mistress, who lodged isfied myself of the value of this treatment, in 1881 carried it up again. The dog has not been mad, and Medical Association, then convened in the city of two medical men who attended the deceased in her onous Bites, Hæmorrhoids, Carbuncles, and Tumors.' last illness declare that it was a distinct and undoubthealth until that time.

Another of the wolf-bitten Russians has died of hydrophobia whilst undergoing treatment on the Pasteur system to combat the development of the malady; and this unfortunate event, according to M. Rochefort—who entertains an unfavorable opinion kill patients by communicating hydrophobia instead ority of discovery and application of treatment. of preventing its appearance. As for the remainder to some other cause. When one reads criticisms of have yet authentically to hear of it. this kind one can well understand M. Pasteur's com-

by dog bite.

CARBOLIC ACID INJECTIONS IN HÆMOR-RHOIDS AND CARBUNCLE.

Dear Sir:- Through the columns of THE JOUR-

In 1875 I made my first injections in hæmorrhoids, and twenty years of age. It, like its mistress, never cess. I continued the treatment for six years with went out of the house except into the back yard. It uniform and unvarying success; and thus having satup stairs, always carried it down, waited for it, and I read a paper on the subject before the Texas State is still alive and in good health, and there is no sign Waco, Texas. This paper was entitled "The Hyof a wound, scratch or sore on the corpse by which podermic Administration of Carbolic Acid for the the virus could have been communicated. A more Cure and Removal of Foul and Ill-Conditioned Ulperfect test case could hardly be imagined. The cers, both Internally and Externally Situated, Pois-

The paper met with strong opposition and severe ed case of hydrophobia, but in that case the assump-criticism from many prominent members of the Astion that hydrophobia can start de novo without the sociation. Dr. A. M. Douglas, a leading man in the intervention of a mad dog, appears almost inevitable. profession of this State, warmly espoused the paper So important did the coroner consider the case that and moved that it be published in the proceedings of he has adjourned it until next month, in order that the Association, which was done. I also had the it might be seen whether the dog continued in good paper published in the Medical and Surgical Reporter, of Philadelphia.

Dr. Wilkerson, of Galveston, and Dr. Woods, of Toledo, Ohio, claim to have been the first to discover and adopt this mode of treatment for the cure of carbuncles. While I do not doubt for a moment the claims these gentlemen have set up, and do not of M. Pasteur and his theories-coupled with the doubt they made the discovery as claimed, yet in other death, goes to prove that the inoculations made justice to myself I must most respectfully claim pri-

Dr. Atlee, some two years since, in the Medical of the Russian peasants who have left Paris for their and Surgical Reporter, in animadverting on my paper own country, very likely, observes the Intransigeant, read before the State Medical Association. claimed they will die when, or before, the get home, but the that the same treatment was discovered and resorted matter will be hushed up, or their deaths attributed to during the Crimean War. If such was the fact, I

In conclusion, I beg leave to say to the medical plaints about the attacks made on him in M. Roche- profession that after eleven years of constant pracfort's organ, and by certain members of the Paris tice I find it still not only the best, but the only abmunicipality who share the antipathy that paper dis-solute and painless cure of these exceedingly painful

affections. I further beg leave to say that carbolic acid. on account of its local anæsthetic effects, will, when applied to the cavity of an aching tooth, in a few minutes relieve pain. A bone felon can be lanced with almost no pain by first wetting it with carbolic acid. By wetting the gum around a tooth Sherman, Texas, on January 14, 1885, Dr. W. E. with the acid, the tooth can be extracted with almost Saunders. He was born in Tennessee, on April 5, no pain. I firmly believe at no very distant day carbolic acid will be *facile princeps* of conservative by his grandfather, who lived in Henry county, Virsurgery. I fully intended to read a paper on this ginia, where he was reared and educated in the comsubject before the American Medical Association at its session in St. Louis, but circumstances over which I have no control have alone prevented me.

Very truly, N. B. KENNEDY, M.D.

Hillsboro, Texas, April 27, 1886.

# THE SURGEON-GENERAL OF THE ARMY.

TO THE EDITOR OF THE JOURNAL:

Dear Sir :- Our British friends, who have, espe- der of his life. cially in recent months, manifested so kindly an inteannouncement of the Fifty-fourth Annual Meeting of Texas Volunteers. He enjoyed the confidence and Billings, M. D., Director-General United States Army Medical Department, Washington."

official organ of a great National Association, could sumed the practice of his profession. He attended have been misled as to the fact that the Surgeon- a course of lectures at the University of Pennsylva-General of the United States Army is Brigadier Gen- nia, and graduated from that institution in 1868. He eral Robert Murray, one of the most distinguished was appointed Superintendent of the State Lunatic officers of a corps, which has more than one distinguished member, especially distinguished both as a

physician and as a surgeon.

commissioned Assistant Surgeon-General on Decem- practice. ber 14, 1882, and has been Surgeon-General of the army since November 23, 1883. The official reports figure and vigorous intellect. He was an attentive of the Surgeon-General's Office of the Army have all, since that time, been issued over his signature and by his act, and consequently a periodical of the was popular both as a physician and citizen with all character of the *British Medical Journal* ought not classes in his community, and especially so with the to have been ignorant of the personality of an officer of such prominence.

cal Corps, for January, 1886, and number 27 on the list of "Surgeons with the rank of Major," having and never held political office. He always comonly entered the service in 1862, and is on duty at manded a good practice, was exceptionally well inthe Medical Department as one of the six assistants formed in the general literature of medicine, and (not Assistant Surgeon General, this officer being carried to the bedside a ripe judgment. Though a and surgeon of nearly forty years' service, not un-capacity, but the department in which he excelled known to fame). The mis-statements in this case was that of diagnosis; being an acute observer and only deserve correction on account of the injustice good reasoner, he rarely committed an error in diag-done in ignoring an officer of the professional repu-nosis. He commanded the respect and confidence tation of Surgeon-General Murray. Accuracy.

## NECROLOGY.

#### WILLIAM EDWARD SAUNDERS, M.D.

Died from acute Bright's disease at his home in 1828, was left an orphan at an early age, and adopted mon schools of that county, spending his early years upon a farm. When about the age of 22 years he left Virginia and went to Tuscaloosa, Alabama, and began the study of medicine with Dr. Gill, of that place. He attended lectures at the Nashville Medical College from 1851 to 1853, graduating in the latter year. Moving to Texas the same year he began the practice of his profession in Fannin county, where he remained but a short time, removing thence to Sherman, where he spent nearly all of the remain-

In 1861 he volunteered in the Confederate Army, rest in the medical profession of the United States, and was appointed Assistant-Surgeon of the Eleventh ought above all things to be accurate in their state. Texas Regiment, in which he served until the fall of ments. We read on page 756 of the issue of the 1862, when he was promoted to the rank of full sur-British Medical Journal, of April 17, 1886, in the geon, and assigned to duty in Clark's Regiment of the British Medical Association, to be held at Brigh-respect of his command, and served with distinction ton, August 10-13, 1886, that "An Address in Med-throughout the war. In the winter of 1864-5 he was icine will be delivered by Surgeon General John S. detached and sent to Arkansas to examine conscripts, and did valuable service by ordering men to duty who had been exempted for some trivial cause. At the It is incomprehensible that a journal, which is the close of hostilities he returned to Sherman, and re-Asylum at Austin in 1879 by Governor O. M. Roberts, and successfully administered its affairs for a little more than two years, when he resigned to return General Murray entered the army in 1846, was to his home in Sherman, and again engage in private

He was a man of fine physique, with a commanding reader, digested well everything he read; and was possessed of a wide fund of general information. He young men, in whose society he delighted. He wielded a marked influence both in political and social Dr. Billings was No. 44 on the roster of the Medicircles; although he manifested a lively interest in the political affairs of the country, was never a candidate, Colonel Glover Perrin, another veteran practitioner, general practitioner he was a surgeon of no mean of his professional brethren in a marked degree, was an able counselor, agreeable and just to all.

He was a member of the American Medical Asso-

ciation, was first Vice-President of the Texas State his County Medical Society, and an active and influ-flow pipe connected with the sewer without either surgeon for many years. He was considered a charge of sewer gas which is sickening and revolting. "landmark" in the community in which he resided, These tanks are so situated in dark closets as not to and will be missed throughout the State. His character was above reproach, of a chivalrous nature, are enabled to supply it with a bountiful supply of humane and generous to a fault. His charitable acts poisonous gas. were performed in such a quiet way they were known neighbor and cultured gentleman. He leaves a to-day. widow and one son. The profession of his county held a meeting, passed appropriate resolutions of tempt at ventilation is made by introducing fresh air respect, and attended his funeral in a body.

## MISCELLANEOUS.

UNSANITARY CONDITION OF OHIO'S CAPITOL .-DR. R. HARVEY REED, of Mansfield, O., Secretary of the State Sanitary Association, has made a sanitary examination of the State House at Columbus, O., for the Sanitary News, and makes the following re-

Through the kindness of the chief engineer of the capitol, Mr. James Semple, a master plumber of Cincinnati, together with an eminent plumber of Columbus, accompanied me, in the first inspection made about two weeks ago. In the second inspection I was accompanied by Mr. William Halley, a master plumber of Columbus, and the chief engineer. The following conditions were especially noticed: The "new" water closets of the House are the "Jennings" closet with tank supply, and intended to have a downward draft for ventilating purposes, but upon testing, they proved to be without any draft, and no means of ventilation other than the theoretical "downward draft" referred to. The urinals used are the old-fashioned ones made of porcelain and flushed with water. Drippings are taken up by a bountiful supply of sawdust scattered over the floor. The urinals are without ventilation.

We next went to what is known as the "old closet" of the House, which is an old-fashioned closet without traps of any description, and which is intended to be cleansed by a meager supply of water from a "tank supply and after wash," but which fails very decidedly in its purpose. Here the ventilation is supposed to be the "downward draft system," which, a test showed a draft sufficient to carry quite large pieces of paper out from the closet into the room instead of downward. This draft is constantly supplying the building with poisonous sewer gas in unlimited

Here the urinals are the old-style, lead lined, and without either traps or ventilators, and are ably assisting in the work of supplying the capitol with copious supplies of poisoned air.

The Senate water closets and urinals revealed the Medical Association in 1879, and presided at its same deplorable condition as those of the House. meeting in that year, was several times President of On examining the flush tanks we found the overential member. He was President of the Board of trap or ventilator, and, unless there should be a con-Medical Examiners for his District, and a railroad stant overflow to prevent it, there is an immense dis-

The main sewer of the capitol connects with the to but few even of his personal friends, and his gen- Broad street sewer, and is trapped with an S trap, uine modesty was sometimes detrimental to his per- and ventilated through the smoke stack, which is also sonal interests. The profession has lost an able and intended to give a "downward draft" to the water loyal member, the community a useful citizen, a kind closets, but which is a practical failure as it stands

> The building is heated with steam pipes and an atfrom the outside and warming it by means of these pipes in suitable brick chambers, and then carrying it through the building. The foul air is intended to be taken from these rooms in a similar manner and emptied into the smoke stack. This plan, however, does not succeed in getting rid of the foul air, and direct ventilation by means of the windows is often necessary in both houses.

> It was noticed that the joints in the "live steam" pipes were made non-expansive, while the return pipes for the so-called "dead steam" pipes were made expansive, which serves to illustrate some of the scientific principles applied in the State Capitol in the plumbing line.

> The escape of sewer gas in the basement is so extensive some days as to sicken the visitor who attempts to go through that part of the building. On other days it is scarcely perceptible. The writer having been present in both of these conditions, is reliably informed that this condition depended greatly on the direction of the wind.

> Strange to say, the sewerage and plumbing of the capitol, as originally designed by the architect and executed, has mysteriously disappeared.

> An appropriation has been made of \$1,000 to put in new water closets, which should include the proper sanitary plumbing of the same.

> The lighting of both houses is extremely unsanitary, the members having to sit facing large windows with the light glaring in their eyes, which together with the foul poisons that have free access to the capitol by means of improper and defective plumbing and ventilation, would make one feel that it is only charitable to excuse them for accused bad legislation, if the remedy for this all did not lay within themselves.

> NATIONAL CONFERENCE OF STATE BOARDS OF HEALTH.—There will be an Annual Conference of State and Dominion Health Authorities at Toronto, Canada, early in October of this year, and all State and Dominion Boards of Health are cordially invited to send delegates. It is the design of this Conference to consider questions of mutual importance to all sections of the country, and in order that delegates may fully understand the topics to be discussed, as

then be made and sent to the several State Boards so that delegates can be prepared to act without delay, thereby facilitating the work of the Conference.

Please send all questions and propositions in exnouncement. Also, send the names of your delegates.

It is proposed to meet one or two days prior to the meeting of the American Public Health Association, and the length of the programme will decide the time. Therefore, all papers, questions and propositions should be submitted in due season.

G. P. CONN, Secretary.

Concord, N. H.

A DANGER IN TOY BALLOONS.—The Lancet says that it seems that the little toy balloons or Inda-rubber bladders which children inflate with the breath may be readily reversed by inspiration and even drawn into the air passages. In two instances recently death has occurred by suffocation, a balloon of the sort being drawn into the opening of the glottis. This is a matter of danger which ought to be recognized. Parents and nurses should be on their guard.

REPORT BY M. PASTEUR.—At the meeting of the Academy of Sciences last week M. Pasteur read the following report of the results of his anti-rabic treatment at his laboratory in the Rue d'Ulm: "The found only 300 occupied.—Lancet, April 24, 1886. number of persons so treated amounted up to the 12th inst. to 726, including those who are still underwere bitten by mad dogs and thirty-eight by wolves, the latter being all Russians. The patients belonging to the first category are, with the exception of the little girl Pelletier, who, it will be remembered, died after a few inoculations, all doing well. More than half of that number have passed the dangerous period. Of the thirty-eight Russians who have been treated and are still undergoing treatment, three have died rabic; the others are doing well, but it is impossible to foresee what may happen to them, as there Capt. Win. J. Wilson, Asst. Surgeon (Plattsburg Bks., N. Y.), exists a profound difference between the bites of dogs and those of wolves, the proportion of deaths caused by rabid wolves being at least 82 per cent." M. Capt. Robert B. Benham, Asst. Surgeon, ordered from Dept. Texas to Dept. Dakota. (S. O. 97, A. G. O., April 26, Pasteur then concluded his report in the following terms: "The above facts demonstrate (1) that the duration of incubation of human rabies caused by the bite of a rabid wolf is often very short, very much shorter than rabies after the bite of a mad dog; (2) that the mortality after the bites of rabid wolves is considerable if we compare it with the effects from the bites of dogs. These two propositions may be sufficiently explained by the number, the depth, and the seat of the bites caused by the wolf, which so savagely attacks his victim, the attack being often on the head and face. The necropsy of the three Russians who died at the Hôtel Dieu, and the inoculation

well as to determine the time necessary to set apart of rabbits, guinea-pigs, and dogs with the medulla for this work and not interfere with the regular ex-ercises of the American Public Health Association, that the virus of the wolf and that of the dog are it is necessary that Boards of Health should formulate sensibly of the same degree of virulence, and that questions and propositions they wish to have consid- the difference of the rables of the wolf and that of ered, and send the same to the Secretary, at Concord, the dog depends on the number and nature of the N. H., before August 1, 1886. A programme will bites. These facts induced me to inquire whether, in the case of bites from rabid wolves, the method could not be usefully modified by inoculations in greater number and within a shorter time. The results will be eventually reported to the Academy. actly the form you desire them to appear in the an- In any case, for the wolf in particular, it is good to submit the patient to the preventive treatment as soon as possible. The Russians of Smolensk were six days on their journey to Paris, and presented themselves at the laboratory fourteen or fifteen days after having been bitten. They might therefore have commenced the treatment eight days earlier, and one can not say what might have been the influence of this modification for the three patients who have succumbed."—The Lancet, April 24, 1886.

> A RICH merchant, M. Chludow, has left more than £,100,000 and a house to found a children's hospital in Moscow.—The Lancet, April 24, 1886.

> THE PANAMA CANAL.—M. de Lesseps, who has recently returned from Panama, read a paper at a late meeting of the French Academy of Sciences giving an account of the progress of the great canal works. The sanitary condition of the workmen he described as "relatively good," contrary to the unfavorable prophecies which were freely uttered at the outset. In a hospital with 500 beds, M. de Lesseps

M. VULPIAN has been elected Secretary for life to going treatment. Of this number there were 688 who the Academy of Sciences, in place of M. Gamin, recently deceased.

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM APRIL 24, 1886, TO APRIL 30, 1886.

> Capt. Joseph K. Corson, Asst. Surgeon, granted ten days' extension of leave of absence granted in Order No. 79, April 15, 1886, Jefferson Bks., Mo. (S. O. 97, A. G. O., April 26, 1886.)

granted leave of absence for one month, on surgeon's certificate of disability. (S. O. 25, Div. Atlantic, April 27, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING MAY 1, 1886.

Wieber, F. W. F., Asst. Surgeon, detached from R. S. "Vermont" and ordered to the "Hartford."

Tracy, Elmer C., Asst. Surgeon, ordered to the "Vermont." Waggener, J. R., P. A. Surgeon, detached from the "Hartford" and ordered to the "Troquois."

Bransford, J. F., Surgeon, detached from the "Iroquois" to proceed home and await orders.

Kite, Isaac W., Asst. Surgeon, to duty at Naval Hospital, Brooklyn, N. V.

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## ADDRESS IN MEDICINE.

SOME POINTS IN BACTERIOLOGY. BY JAMES T. WHITTAKER, M.D.,

OF CINCINNATI.

PROFESSOR OF THEORY AND FRACTICE OF MEDICINE, MEDICAL COLLEGE OF OHIO.

"Vere scire est per causas scire."

—BACON.

There are three planes in the history of medicine. The first is the study of the symptoms or appearance of disease. It is the period of the infancy of medicine. It is naturally the most crude period, and all irregular medicine still rests upon this plane. It gave us a pharmacopæia, and the highest expression of it made of the practice of medicine an art. The second plane begins with the observation of the effects or lesions of disease. It made us familiar with the natural history of disease, and thereby nearly destroyed the pharmacopæia. The third is the present plane, upon which are being prosecuted investigations into the cause of disease. Investigators have just set foot upon its threshold. When it shall have been fully attained medicine will be entitled to a place among the sciences which are called exact.

The progress made in this direction during the past year so completely overshadows all other work in range and promise of practical value as to justify in this report, to the exclusion of everything else, a brief

review of the conclusions reached.

The etiology of acute infections is comprised under the single term, bacteriology, the bacterium having come in the course of time to include all pathogenic

as well as many innocent micro-organisms.

The year just passed has not been as eventful in the definite discovery of new causes of disease as several that have preceded it in the first half of the present decade. What has especially characterized the past year is the fixation of facts previously acquired, whereby the so-called germ theory of infections disease has been brought from the realms of the ideal to the region of the real. Coemans said several years ago, "the following up of a single bacterium through all its phases of development is far more valuable than the discovery of new germs," and this pursuit has now been made with such success in the case of many forms as to justify in our day the claim of Magni in the Roman Annals of Public Med-

icine, fifteen years ago, that the study of medicine should undergo a reform, making obligatory at least a three months' course with micro-organisms.

For it is now demonstrated beyond dispute that pathogenic micro-organisms do exist in distinct and definite entity. The views advanced by Beale, that bacteria are portions of diseased protoplasm from living tissues, and by Wigand, that they may spring up de novo in organic matter by transformation of organic molecules, are no longer held worthy of serious consideration. The view of Beale was never anything more than an ingenious hypothesis, and it fell to the ground with the first studies of the life history of bacteria, while Wigand's theory had no better support than any other spontaneous generation. The fate which so quickly overtook the illustration of this theory may well serve to show the danger of advocating spontaneous generation in our day.

Wigand remarked that for the purpose of dissipating all doubts concerning the spontaneous development of bacteria in the protoplasm of cells, he would call attention to the fact that moving bacteria could be seen at any time in the healthy living cells of the trianea bogotensis, and in the hairs of the labiatæ. This statement was brought to the notice of the eminent botanist of Strasburg, de Bary, who thus describes his investigations: The trianea is a South American floating water plant. A piece of its living tissue removed from a fresh, healthy plant, examined under the microscope, reveals in fact the most exquisite picture of bacteria. Slender bacilli, alone or adherent in short rows, follow about the movements of the protoplasm and other contents of the cell in the liveliest way. Such a picture is a model-as a picture. But the addition of a drop of dilute nitric acid quickly dispels the illusion. Instead of maintaining itself like a true micro-organism, the bacteria of the trianea are dissolved away at once. The same is true of the rods in the hairs of the lip-flowering plants. The "bacteria" are nothing else than small crystals of oxalate of lime frequent in this form in the cells of plants. This story is instructive, the author says, in showing how far astray preconceptions may lead otherwise excellent observers.

Wigand saw micro-organisms develop in fluids after exposure to boiling heat for half an hour, a temperature and time sufficient, he thought, to destroy all germs. But the experiments at Koch's laboratory at Berlin prove that individual spores resist a boiling heat for several hours. Wigand's erroneous conclusions were based upon an imperfect sterilization.

<sup>&</sup>lt;sup>1</sup>The Address of the Chairman of the Section of Practice of Medi-cine, Materia Medica and Physiology, at the Thirty-Seventh Annual Meeting of the American Medical Association, St. Louis, May 5, 1880.

What a contrast to these obscure conceptions is sume deadly properties—all effort at investigation is offered in the clear statements of Leeuwenhoek, the futile, if not foolish, and every effort at destruction first individual to turn the lens, crude and imperfect is not only powerless but paralyzed. as it then was, upon, and to discover, micro-organisms. It would almost seem as if great minds knew in our day by Ray Lancaster, met with warm advointuitively what is true and what is false, else how cacy at the hands of Billroth, who derived the differmay we understand the observation made by Leeu- ent forms from variations in the soil or substratum, wenhoek as early as 1685 of the minute organisms and later of Warming, who considered the different found in water: "they do not arise in the water," he forms as so many different stages of development of says, "they develop from germs."

much danger from its enemies as its friends. For different hosts. Klebs was also inclined to accept many years it suffered ridicule and discredit because this view, though with the reservation that certain of the false conceptions of "undismayed pioneers" and over-zealous advocates. The Germans still speak of micrococci. of the "überreifer Eifer" of this class. Thus the countrymen were unmasked as foreign bodies, im-

purities, not even germs.

ferments, bacteria, are mutually convertible. Micro- tion. Buchner was sufficiently well acquainted with and action. Such general permeation of various essential particular. internal organs, especially the kidneys, followed these

specifically different, as Nägeli claimed, but are forms to be noticed again. of one or a few species, so that the same species, by or decades, effect at one time the souring of milk, micro-organisms was the observation of Nägeli, that the ageing of wine, putrefaction, the decomposition fresh milk on standing becomes sour but boiled milk of urea, the red coloration of starchy food, and at bitter. Fresh milk becomes sour, Nägeli says, under other times produce typhus, malarial or relapsing the action of a certain bacterium. Boiling the milk organisms of the earth and air may at any time as- of the transformation of the same micro-organism.

This idea of the unity of species, first advocated the same species, like, to use a coarse comparison, The germ theory of disease was never really in so the different stages of development of tapeworms in forms occur preferably in the form of bacilli, others

Hay and Milzbrand Bacillus.—Perhaps no single choleraphyton proclaimed in England, and later statement seemed to lend such support to the negaagain in Germany, turned out to be nothing else than tion of species as the claim of Buchner to be able to eggs of intestinal worms; the animalculæ of variola transform the innocent bacillus of hay infusion into eventuated in the common bacteria of putrefaction, the deadly organism of milzbrand. Buchner oband the palmellæ of malaria disclosed by one of our served under continued cultivation the gradual change of the hay bacillus into the milzbrand bacillus, and with the reversal of this change, which he was likewise Claims of Convertibility of all Germs.—An original able to produce, maintained that the loss of virulence conception of this over-ripe zeal was the view of of the milzbrand bacillus was not an attenuation. Hallier, that all kinds of germs, big and little, moulds, as Pasteur had claimed, but a veritable transformacocci, said Zürn, are only stages of development of the gross differences of the two bacilli, but he remoulds. This view needed only the most accurate garded them as accommodations of the same form to observations of Brefeld and de Bary to be entirely different soils. Hueppe credits Buchner also with a refuted. More serious was the claim of Grawitz that knowledge of the spore formation of the two bacilli innocent mould fungi, aspergillus, mucor, etc., could -the most distinctive characteristic of different forms be converted into dangerous forms. Grawitz saw -which Buchner considered identical, a considerathat the injection of aspergillus into the blood of tion which misled Brefeld to adopt Buchner's conclurabbits remained without effect, whereupon it oc- sions, but de Bary insists that with the gross differences curred to him to change its natural, cool, acid soil to in the spore formation of the two bacilli, it is doubtful a warm alkaline soil with a view of changing its form if Buchner ever really studied the hay bacillus in this

At any rate, it was easy for Koch, by pointing out experiments, as to seem to have demonstrated the these differences, as well as the difference in the reconversion of the innocent into a dangerous parasite. sistance of the spores, the difference in the optimum But when Koch and Gaftky came to repeat these and minimum temperatures in the process of reproexperiments, with the precautions implied in control duction, etc., to prove that Buchner was experimentobservations, it was soon discovered that the species ing with two distinct species or forms, and that the of aspergillus, mucor, etc., included a whole series of apparent transformation was really a case of substipathogenic germs, some of which had entered with tution or displacement of one form by the other. the injection of innocent forms. Grawitz's errone. Inasmuch as no one has since succeeded in effecting ous conclusions were based upon the use of impure such a transformation, this question may be regarded as definitely settled. Final disproof of Buchner's The field had now become limited to the bacteria claim was made by Prazmowski in 1884, with the exproper. It may be said at once that all practical in hibition of such distinct differences in the two forms terest hinges upon the question of the constancy or as to demonstrate their independence, so that whatinconstancy, mutability or immutability, of the forms ever dispute remained concerned simply the possibil-of pathogenic micro-organisms. If they are not ity of attenuating the bacilli of milzbrand, a subject

Bacteria of Milk.—A much more simple and easily assuming different forms, may, in the course of years refuted illustration of the inconstancy of action of fevers, diphtheria and cholera-if such mutability of changes the character of the soil and the action of the form and action exists as this; if the myriad micro-same germ. Here, then, is an everyday observation

That this illustration may not seem too trivial, it stance, in virulent germs never occur spontaneously. may be said that it was, up to the time of Buchner's The Germ, not the Form, Essential.—The concluexperiments, just mentioned, the sole apparently in- sion reached by the mycologists of the present day disputable proof of the change of one definite ferment is that under natural circumstances micro-organisms into another.

covered that milk is made sour by many causes, so much by a distinct and definite form as by a disamong others, by many varieties of bacteria, of which tinct and definite germ. Most of the diseases of Nageli assumed the existence of but one. It did not plants, de Bary says, are produced by parasites, and occur to him to inquire if one variety might not get as investigations develop more and more distinct spethe upper hand before, another after boiling. The cies it is seen that definite diseases are produced by truth turned out even more simple than this, for Hu-definite parasites, whose specific properties are no eppe showed that of the many forms of micro-organ-more to be doubted than those of higher organisms isms present in milk, one, the micrococcus lacticus, or worms. This claim, the author concludes, is not exuberates in a low temperature, and renders milk simply convenient, as Nägeli observes, it is the only sour by the formation of lactic acid. Boiling kills view which is consistent with acquired facts. this micro-organism with many others, but the spores of the butyric acid germ, the bacillus amylobacter, micro-organic life falls naturally into two great divialso present, survive boiling heat to develop later sions. One is found everywhere, at all times and in all into the mature form. This bacillus effects in boiled places, and, as has been shown, in abundance enough milk a decomposition of the albuminates, attended to realize the panspermatism of the ancients. Such with a bitter taste. Neither form nor action has been germs are known as omnipresent, or, from the fact of changed in a single germ.

vocates of constancy of form and function, Cohn and mopolitan, but Cohn devised the best appelative when Koch, do not maintain that certain deviations may be spoke of them as ubiquitous. Myriads of these not occur. They claim only that these deviations germs are entirely innocent to man. Others are inoccur within certain limits, such limits as are to be jurious only under certain circumstances. Thus the observed in structures higher in the vegetable scale. ubiquitous germs of common putrefaction may pene Gardeners, florists, farmers, succeed in effecting, trate the body from a slough or a gangrenous part, to under varying surroundings, marked variations from produce by their presence, or the chemical changes he primitive plant, but they may never change an they induce, the condition known as septicæmia. apple to a pear tree, wheat into rye, or a sunflower Thus the pus-producing micro-organisms, probably of changing one form of micro-organism to a nearly al-

show themselves in the rule, not with variations but The fallacy of it became obvious when it was dis- in permanent forms, but that disease is not produced

Ubiquitous and Indigenous Germs.-The world of their ability to obtain sustenance everywhere, as om-Deviations that do Occur. -- But the strongest ad nivorous germs. Hallier proposed to call them costo a rose. Koch himself admits the possibility of many kinds, belong to the class of ubiquitous germs.

On the other hand, most pathogenic micro-organlied form. He goes so far as to say that it is not isms are indigenous to certain definite places. These without the bounds of possibility to convert a patho- are the epidemic germs. Thus the mouths of the genic into an innocent form. What he asks is simply Ganges and Brahmaputra are the centres of cholera, that the specificness of one form shall not be surren- Lower Egypt of the plague, the Antilles of yellow dered until the proof is furnished. There are mono-fever, Ireland of typhus. But just as plants of higher morphous and pleomorphous bacteria. No one claims organization may be transplanted to other soils, may that every micro-organism shows itself under all cir- original endemics assume epidemic and finally pancumstances in but one form, as Koch admits the demic proportions or extent. Thus small-pox first occurrence of Finkler's vibrio in three forms, the showed itself in Germany in 1493, an importation curved rod, the lemon shape and the spirilla, but he from the Netherlands, but it was not until 1527 that still insists that the individual preserves the reproduc- it was transported to our continent, making its aptive form of its cells, that is, that it appears as a mi- pearance with wholesale slaughter in Mexico, and crococcus, a bacillus or a spirilla, and that it does not gradually extending thence over the whole of North change these forms. For, as Mittenzweig maintains, America. Scarlet fever, which was first heard of in it has never yet been shown that a bacterium appears Arabia, was not seen in our country until 1735. It at one time as a genuine micrococcus, at another as reached Iceland in 1827, South America in 1829, a genuine bacillus, and again as a genuine spirilla, Greenland in 1847, and Australia in 1848. Measles and even if we admit the form changes which Buch-ner and Gruber have observed in the organism of of our own decade. Cerebro-spinal meningitis, in Finkler, and Babes has observed in the cholera germ, all respects the most irregular of all epidemic diswe must also admit, as Buchner has himself observed, eases, first sprang up in Geneva, and first fell upon that in the cultivation of the different forms the typi- our country in 1806. Cholera was unknown with us cal curved rod invariably appears, so that all these until the memorable year of 1832. Even tuberculosecondary changes are to be looked upon simply as sis, which has long since assumed pandemic extent, so many variations upon the typical form. With the was, as Liebermeister has shown, not originally ubiexperience of the botanist and florist cited, it is not quitous, as it remained unknown to our own Indians, a matter of surprise that micro-organisms have been to the aborigines of Australia and the negroes of seen to undergo changes of form which are not ob- Central Africa until carried to them by more civilized served in nature. Attenuations of virulence, for in-races. There is therefore no longer question of the hydrophobia can no more arise spontaneously than otherwise remain the same. can dogs and men.

of the acute infections has always presented the same tial diagnosis from morphology alone? been shown to rest upon inaccuracies or impurities, of human blood,

Attenuation not Change of Nature.—But the case is very different with the converse of this view, which pathogenic and innocent organisms by their size and

spontaneous, or so-called autocthonous, origin of in-their pathogenic properties? The belief is still mainfection. Typhoid and typhus fevers, dysentery and tained, by some clinicians at least, that vaccinia is diphtheria, pyzemia, erysipelas and puerperal fever, smallpox which has lost its virulence by passing through appear only at times when lurking germs and spores the body of a cow, and the question of attenuation of from previous cases find favorable conditions for development, or after fresh importations of the disease. oculating it in milder form, occupies the attention of All this disease, all infectious disease, is of exclusively prominent mycologists at the present time. Within parental birth, and can no more originate spontane- the present decade this question has been answered in ously than can serpents and crocodiles originate from the affirmative with reference to the virulent bacteria of heat and mud, as Lepidus maintained, bees be pro- charbon. For it has been discovered by Pasteur and duced from the putrefying entrails of steers, as Virgil by Koch that under the influence of high temperature described, or mice be generated from sawdust and old and various chemical agents, the bacteria of charbon shirts, as Van Helmont claimed. In keeping with may be made to suffer loss of their pathogenic propthese theories were the views since maintained that the erties, while they still retain all other characteristics, plague arose from the putrefaction of corpses, yellow including the capacity of reproduction. Pasteur fever from the crowding of slave ships, cholera from claims to have effected the same attenuation in the decaying vegetable food, typhoid fever from the emal case of hydrophobia. But these observations do not nations of human excrement, consumption from bad support the view that any change of nature has been ventilation, or oftener from a bad cold, and diphtheria experienced in this way. Bacteria thus treated are from sewer gas. These are factors which do undoubt not changed into innocent forms. They have simply edly favor the spread of the infectious maladies, but lost the physiological property of infection. Baumnever originate the birth of one. A fright may cause gartner puts it pertinently when he says it is not a a premature birth, Jürgensen remarks facetiously, but question of changing poisonous into innocent snakes, it would never conceive a feetus. So, rabies and but of extracting the poison fangs from animals which

The Morphology of Bacteria is not simply a ques-Thus is explained the specificness of acute infection of size and shape. The term is extended to intious disease. Each one of these diseases produces clude also motion, color and affinity for color, as well itself alone. Measles begets measles, small-pox be- as the manner of growth or disposition of the colonies. gets small-pox, cholera begets cholera. Figs would In many cases such distinctive peculiarities are already be born of thistles, or grapes of thorns, as soon as demonstrated as to render it possible to absolutely cholera of small-pox or diphtheria of typhoid fever. diagnosticate disease in life by one or more of these The introduction into the blood of a specific germ points. As Hueppe says, this is the most interesting begets the specific disease, and the fact that each one question for the clinician. May we make a differen-

characteristics, proves most conclusively that no Bacteria vary greatly in both length and breadth, change has occurred in the properties or peculiarities of but are for the most part so small as to be on the the specific cause. For so long as observations have confines of the visible with the microscope. In fact, been recorded, measles, for instance, has always been it is chiefly by reason of the recent improvements in the same disease, with the same period of incubation, the illumination and magnification of the microscope, the same prodromata, and the same eruption, the the oil immersion lens and Abbé illuminating appasame complications and the same termination. New ratus, that they have been rendered visible at all. interpretations of the phenomena of the acute infec-|Some of them are to be seen only with a power of tious diseases have been made from time to time, 700 diameters, which is the magnification generally more searching means of study have developed new used in the study of all micro-organisms. Mycolosigns, but the characteristic features of each of the gists speak of micro-, meso and mega-coccus, or acute infections have always remained the same. The bacteria, of the micrococ-coccus prodigiosus, and of accurate observations rendered possible by the adoption of the solid culture soil are in thorough accord with tive terms. Pathogenic micro-organisms vary in these conclusions. The essential nature of pathogenic length from 1 to 40 mikro-millimetres, and in breadth bacteria is not changed by alterations in the soil or from 0.5 to 7mm. Many micrococci are to minute other surroundings. Bacteria may be shriveled or to admit of any accurate measurement. The largest dwarfed or reproduction checked by lack of oxygen, micro-organism is the spirilla, which may reach the unsuitable nutrition, improper temperature, but they length of .2 of a millimetre. Perhaps a better idea may not be changed in nature Up to the present time of size can be conveyed by comparison with a fait has been found impossible to convert innocent into miliar object. The bacillus tuberculosis, which ocpathogenic forms, and the observations recorded cupies in respect to size a median place, varies in which seem to lend support to the transmutation the length from 1-2000 to 1-3500 of an inch, the smaller ory, as by Buchner, Bastian, Nägeli, and others, have measure being the average diameter of a corpuscle

opens up one of the most interesting studies in mycol-ogy. Is it possible to deprive the pathogenic forms of express an opinion on this fact alone. But micro-

differences in the structure of bacteria.

can be studied, is simple enough. Bacteria are cells cases. because they are constituted, grow and divide like cell seems homogeneous in the minutest, but more or the diagnosis of tuberculosis. less granular in the larger and more distinctly visible the same colors as other protoplasmic bodies, differ- cholera morbus, but any one would notice at a glance ing as they do in different forms. The cell is invested the difference in the funnel and cone or stocking with a membrane which may be separated from the shaped colonies of the two varieties. As, however, protoplasm by agents like the alcoholic solution of the length of time that must necessarily lapse to make iodine, which shrink the protoplasm. The membrane this observation precludes its practical value to clinicassumes prominence also at the period of spore ians, quicker conclusions can be reached by the physformation. It is in most cases firm and closely ap-iological test, that is the introduction of the germs, or posed to all contents, while in the spirochates it is matter containing them, into the stomachs of guinea extensile and elastic. Dark, transverse lines forming pigs. These animals are very susceptible to cholera across the protoplasm indicate the division of a bac-morbus, but insusceptible to true cholera, without terium into daughter cells, which separate in the pro- special preparations or precautions. Perhaps this cess of reproduction. Hence the name schizomy- test would be resorted to only in cases where doubt cetes. A billiard ball, a lead pencil and corkscrew, existed as to the commencement of an epidemic of indicate in the homely comparisons of de Bary the Asiatic cholera. chief varieties of bacteria as micrococci, bacilli and

would be dissipated with a knowledge of the fact that in different soils and at different temperatures. for practical use appeal must be made to other fac- in different soils, it is nevertheless true that a typical

organisms may look alike and yet be very different. tors in morphology. Thus the bacillus of tuberculosis, Spermatozoids of different animals may present the syphilis and leprosy closely resemble each other, that same general appearance, but they are endowed with is closely to the clinician, though coarsely to the very different properties. We remain as yet at too mycologist. But the tubercle bacillus distinguishes great distance to make out the distinguishing features itself from all other bacilli save one, by two peculiareven of innocent and dangerous micro-organisms. ities: first, lack of affinity for all dyes, that is, the re-As Birch-Hirschfeld remarked, it would be impossible sistance it shows to colors, and, secondly, when it is to declare of a man standing on the spire of the colored with alkaline dyes, by the persistance with Strasburg cathedral, whether he was black or white, which it retains its color in the presence of mineral and even the same configuration in every particular acids. This persistence is shown only by the bacillus would furnish no more definite criterion than in the of leprosy, but the bacillus of leprosy may be differcase of full grown serpents of the same appearance, entiated by the fact that it may be colored with Weigsome of which only are poisonous. We await now ert's nucleus color, (hæmatoxylin, alcohol, alum, aa 2, with intense interest the revelations which are to fol- distilled water, glycerine, aa 100), which has no effect low the experiments with the new theory worked out upon the bacillus tuberculosis. The colored bacilli by Professor Abbé, which it is claimed already exhibits of syphilis are decolorized by mineral acids. By the method mentioned Gaffky discovered characteristic The general construction of bacteria, so far as it bacilli in the sputum of tuberculosis in 938 of 982

Considering the fallacies of the observations, and cells, and although nuclei have not yet been discov- the stage of prophysical signs, it is safe to say that ered in them, they are in this regard not unlike other the time is close at hand when we shall no longer low forms of vegetable cells. The protoplasm of the think of using the pleximeter and the stethoscope in

A skilled mycologist would alone detect the fine forms. It shows the same reactions and takes up differences in morphology of the bacilli of cholera and

The method in which the bacteria aggregate themselves in the process of growth in the culture soil, the Distinction of Bacteria.—A glance would reveal the process of colonization it would be called in the difference between a bacillus and a spirilla, and there tissues of the body, or the formation of zooglea, could be no question of mistaking a micrococcus for furnishes some, but uncertain information regarding either. In many cases even gross morphological re- the nature of the germ. Cohn thought at one time semblances could create no embarrassment in the that the whole class of bacteria might be divided into mind of the practitioner. What possible doubt could two distinct species, one of which formed a mucusexist, for instance as between the comma bacillus of like mass, the other fibrils or threads. These classes the stools and intestinal contents of cholera and the he proposed to designate as gleogenous or mucusinnocent comma bacillus found in the mouths of forming, and nematogenous or thread-forming families, healthy people? The condition of the patient de- but he was compelled subsequently to abandon the cides it at once, or if there could still be a doubt, it idea on observing the changes in the mode of growth the cholera bacillus is not found in the mouth. But upon Koch observed that the formation of zooglea in many cases differences in form alone are too slight, in the form of membranes or fibrils, squamous, denand variations in size too great to be recognized by dritic, fenestrated, nodular, globular, circular, etc., the clinician. In some cases these differences can immediately preceded the development of spores. be seen. Thus the slight deviations between the Both Cohn and Koch soon reached the conclusion that forms of the bacilli of milzbrand and malignant cedema while the form of the colony might serve to separate enable mycologists to separate diseases which are families and groups, estimates based upon such oboften confounded. But these distinctions may be servations must be accepted with much reserve. But made out only in the laboratories of experts. Hence while it is admitted that the form of the zooglea varies form is shown under the same conditions, a fact which uncovered in a warm place at a temperature not above Hueppe remarks, essentially lightens a differential 40° C. cholera germs developed in myriads within diagnosis. To give but one example, the bacillus twelve hours. anthracis may be macroscopically distinguished from upon its surface.

life; food, heat, oxygen, water, etc.

nected with the subject of cultivation in the so-called have the mycologists made us familiar with characterpure culture soils, which consists in selecting the food istic features of the vibrios of both forms of cholera, organisms. The fact that bacteria remain sterile in monia have no such effect; have pointed out the nail certain soils and luxuriate in others does not surprise cultures of pneumonia, the air vesicles of Asiatic us when we reflect upon the predilections of higher cholera, the flat scales of tuberculosis, the fern leaves forms of vegetation.

almost any kind of culture soil, they differ in the de-the effect of puncture or stick cultures show peculiargree of development according to the nature of the ities different from plate cultures, and different effects soil. Thus Wilkommen has observed that the germs are observed again with the same bacteria in different which thrive upon the South American potato can not kinds of soil or food. Eisenberg has recently (Hamber made to grow upon the European potato. The micro-organisms which give the peculiar piquancy to Diagnostik, which consists of a series of tables where-Stilson and Roquefort cheese grow better in certain in are noted, in a form of inestimable value to the cellars than in others. The first experiments in culti-student of bacteriology, all these peculiarities of all vating bacteria were in fluids, solutions of meat, beef known germs. tea, chicken soup, malt extracts, infusions of hay, etc., but fluids are open to the objection that they are recognized of the temperature: the maximum, admit other germs, to coalesce with and rendered impure the special variety to be studied. Pure cultiva-temperature most conducive to fructification, to tion became possible only with the use of the pure spore formation. Excesses in either direction arrest culture soil, first employed by Koch. Germs falling certain processes, extremes destroy life. As might upon a solid surface remain fixed in the same place. have been premised, non-parasitic enjoy much wider The solid culture soil made practicable the absolute latitude than parasitic germs. Thus, according to epicures, gelatinized blood. Thus has been deter-partition of pattern of 90° to 95° C. In a neutral fluid they are killed by a mined the peculiar soil in which the varieties of pattern of 90° to 95° C., while in a weak alkaline thogenic bacteria thrive the best. Thus while the fluid they live at 100°. The mature spores of this cases, where but very few or doubtful specimens were necessary means of existence. present in the intestinal contents, Schottelius added Need of Oxygen.—Such differences prevail regard-

Effect of Bacteria on Food.—In this connection a the non parasitic bacillus subtilis by the fact that the remark may be made upon the effect of bacteria upon anthrax bacillus forms in its soil a flocculent deposit, the food selected, foreshadowing the local effects of while the bacillus subtilis develops a dry membrane micro-organisms upon the tissues of the body in the so-called local symptoms of disease. It is observed The development of bacteria does not differ from and distinctly tabulated if the gelatine or other food the higher vegetations in requiring the necessities of be fluidified, granulated, colored, decomposed, with or without the development of odors and gases, and Pure Culture Soils.—The question of food is con- the time required to induce these changes. Thus best adapted for the rapid multiplication of micro- which fluidify gelatine, while the micrococci of pneuof the micrococcus of erysipelas, the acacia leaves While, then, many bacteria may be cultivated in of one form of the micrococci of pus. So also of

Concerning Temperature. - Three cardinal points isolation of germs, without which accurate investiga- Cohn, the bacterium termo grows between 5° and tion is impossible. Koch made his first studies with 40° C., with its optimum at 30° to 35° C., while the the common potato. The potato was the key to the border temperatures of the bacillus tuberculosis, acwhole subject of solid cultures. We might say that cording to Koch, are 28° and 42°, with an optimum what the apple was to Newton the potato was to at 37°, the temperature of the human body. The Koch. Subsequently gelatine was employed, then conjoined influence of soil and temperature is shown aqueous humor, then gelatinized meat preparations, in the conduct of certain bacilli (tyrothrix) found in peptonized gelatine, etc., and as a climax for the cheese. The optimum temperature of this germ is bacillus of both forms of cholera develop upon both species remain productive in a weak alkaline fluid animal and vegetable soils (both being really exan-after being boiled at a temperature of 115° C. Tyrthropic germs), the bacilli of tuberculosis will not grow othrix filiformis survives in milk a temperature up in a vegetable soil as upon the surface of a potato, to 100° C., a degree fatal in one minute in an acid but will thrive in infusions of meat and luxuriate in tluid. The spores of this species survive in milk a the serum of the blood. The micrococcus of chicken temperature of 120° C., while in gelatine they are cholera grows to swarms in neutralized chicken-soup, destroyed at 110° C. This knowledge of the range and the comma bacillus, which is really not a bacillus, of temperature gives a differentiation at once of parabut a form of vibrio or spirilla, develops in such lux-sitic from non-parasitic bacteria, as germs whose range uriance in alkaline meat soups as to have enabled is limited to 28° to 42° C., may not constantly find Schottelius to detect it in minimum amount. In such anywhere upon earth, outside of animal bodies, the

to the contents two and a half times as much slightly ing the need of oxygen that Pasteur separated all alkalised infusions of meat, or ten times as much gel- micro-organisms into two classes, erobes and anæatinized meat peptones. In this mixture preserved robes. As, however, all known pathogenic microtitioner.

ble by alcohol, excreted from this particular germ.

of the life of the micrococcus ureæ, which cannot, faction. therefore, be the cause of the ammoniacal degeneraside air. It was then assumed that this degeneration the inhalation of the bacteria of putrefaction. must be affected by other anærobic bacteria, and in

urea into the carbonate of ammonia. Hence the into the bladder."

ordinary lens, introduced beneath the skin of a guinea permanent forms. pig, multiplies sufficiently to kill the animal in fortyalways with gradual loss of substance.

Reproduction takes place in bacteria, whether by fis-

organisms must have oxygen more or less, the division ity of the entire ocean. But while some such calculais of more value to the mycologist than the clinician. tions may be justifiable to convey some adequate idea One point in this connection regarding the ammonia- of the degree to which the earth and the air may be cal degeneration of urine is of interest to the prac-filled in a few days during the prevalence of an epidemic, it must be remembered that it was flights of Bacteria of Urine.—This degeneration, as is well fancy like these that first brought the germ theory into known, results from the conversion of urea by the discredit and derision. Check is put upon the deabsorption of water, into the carbonate of ammonia, velopment and reproduction of all bacteria by the during which process the originally clear fluid becomes lack of nutrition, which sooner or later must ensue. cloudy and opaque. A drop of this urine under the as well as by the inimical action of different varieties microscope discloses myriads of germs of all descrip- upon each other. Thus the bacteria of decompositions. Cohn has shown that one of them, the micro-tion cease to multiply and perish by the myriad so cocus ureæ, is the prime cause of the ammoniacal soon as the material of their food is converted into change. Pasteur had already discovered that this inorganic matter; the bacteria of fermentation are micrococcus cultivated pure in a fluid containing destroyed or their reproduction checked by the alcourea induced in it the same change as in urine, and hol which they form; the bacteria of cholera with Musculus has since disclosed the fact that the change dessication, etc. The bacteria of most diseases peris induced by a chemical product, an enzyma separa- ish with the death of their host, as well as from various other causes in life, as by the fever they evoke, The presence of oxygen is a necessary condition or are themselves destroyed by the bacteria of putre-

Thus it has been proposed to cure trachoma with tion that in bad cases of catarrhal inflammation takes the gonococci of gonorrhea, lupus and epithelioma place within the bladder, a sac shut in from the out- with the micrococci of erysipelas, and tuberculosis by

Spore Formation.—The conditions affecting the fact, minute forms are found in freshly voided urine. process of fructification are of extreme importance to It is interesting to know that Miquel discovered in the proper understanding of the cause and prevention dust a very delicate bacterium which vegetates in the of acute infectious disease. A single bacterium is absence of oxygen. This bacillus he named the ba- made up of several cells of parts, of which each cell cillus ureæ, because it has the power of converting forms one spore. Pasteur first recognized these "brilliant corpuscles," but it remained for Koch to force of Teuffel's warning, "Put no soiled catheter determine their significance, and for Prazmowski and Hueppe to establish their supreme value from the The Fecundity of Micro-Organisms has been so point of view of differential diagnosis. The differoften demonstrated in explanation of the suddenness ence in the method of spore formation is also a chapof appearance of them in multitudes, and of the viru-ter of itself which could find no discussion in the lence of infectious disease, as to require mention here limits of this report. It is enough to say here that only for the purpose of checking the riots of the characteristics of specific bacteria are as definitely imagination. It is known that a particle from a milz-determined in the observation of these phenomena as brand bacillus, so small as to be invisible under an in the effects of inoculation. Spores constitute the

Endospores and Anthrospores .- There is now quite eight hours, and a drop of the blood of the animal general acceptance of de Bary's division of all bacthus affected, properly inoculated, destroys the larg-teria into classes, one multiplying by endospores and est ox in a few days. It is useless to dwell upon this one by arthrospores. Endospores are spores evolved point of propagation. It was the recognition of it from protoplasm in the body of bacteria in such a that more than another compelled the return to the way that the spore forms its own membrane, while an germ theory of infectious disease when it seemed to arthrospore is a transformation of an entire part or have been routed even with contumely. No purely cell of a bacterium, the membrane of the bacterium chemical substance possesses this property. The forming the membrane of the spore. True bacteria power of reproduction or self multiplication is limited develop by endospores. Such are the pathogenic to living things. Chemical substance admit of great bacteria, whether in the form of micrococci, as of subdivision, as best exemplified, perhaps, in the diserysipelas, pneumonia, gonorrhea, suppuration; basemination of odors, but such subdivision is attended cilli, as of tuberculosis, syphilis, leprosy, diphtheria, milzbrand, glanders and typhoid fever.

Spores are distinguished from micrococci by their sion or spore formation, a rapidity bordering on the bluish, opalescent cast, their high refractive power, marvelous. Cohn indulged himself in the pursuit of and their obstinacy to color, because of the impermeaa calculation, reaching the conclusion that the progeny bility of their membranes. Strong acids and extreme of a single bacterium, unchecked in growth, would in heat, which kill the protoplasm of the bacteria, injure the course of three days reach the apalling weight of the vitality of the spore membrane, to make it perfifteen million pounds Troy, and in five days fill up a meable and admit color. Under such conditions space of 928,000,000 cubic miles, the estimated capac- spores may be colored intensely while the body of the

bacterium is only feebly or not at all affected by color. through breaks, sloughs or ulcers formed by patho-Spores of all kinds are characterized by extreme genic germs. Such secondary saphrophytic immitenacity of life. Most endogenous spores remain gration occurs in diphtheria, typhoid fever and small productive after exposure to 100° C., many even to pox as to have until recently occasioned much 130° C. Anthrax spores survive a dry heat of 123' confusion in the recognition of the true pathogenic C. Endospores survive dessication on an average germs. Invasions of this kind, independently of about one year; those of the bacillus subtilis, according these diseases, are probably responsible for many ing to Brefeld, three years. Pasteur claimed to have non-infectious septicemias of surgery and obstetrics, kept spores in hermetically sealed tubes, capable of as well as for many vague "rheumatisms," malarias," reproduction after twenty-two years. Such long sustendation of life is capable, of course, only under favnal medicine. oring conditions. Botanists generally admit persistence of vitality in seeds from ten to twelve years. Statements of persistence for centuries, as from mumskin and mucous membrane, including the lungs. mies' tombs, are considered mythical. As a rule, as The germs of tuberculosis, pneumonia and all the stated, spores perish in a few years, so that limit is acute exanthemata probably enter the blood by way to be put upon the assertion of an enthusiast in anti- of the lungs, which permit the passage of larger and sepsis that "time does not destroy septic dirt."

the earth is the bottom of an ocean of air teeming of site, mode of invasion, dissemination and effect with micro organisms of every description. The ori- upon the tissues of the body. A notice of one or gin, character and distribution of these germs is a sub-two of the best studied will serve in illustration. ject of itself. Myriads of them, among others, pathogenic germs are ingested and inhaled every day. The micrococci of erysipelas are deposited upon the epidermis at some break of the surface, which The alimentary canal throughout its length is debreak may have entirely healed by the time the disscribed as a rich garden of vegetating bacteria. Most ease is recognized, to distribute themselves chiefly in mature forms are destroyed in the stomach under the the lymph vessels of the skin and subcutaneous fat. action of the gastric juice, but many spores, and some Hence the superficial character of the disease. They mature forms—sarcinæ, for instance—escape to reach 'multiply, according to Fehleisen, in a direction oppothe intestine with all the favoring conditions of a hot-site to that of the lymph currents. They are never house. The mycologists speak of the flora of the found in the blood or in distant organs. feces; in fact, masses of feces are almost wholly masses of bacteria.

lings emit no fecal odor.

bacteria, succeeded in isolating one bacillus endowed sels; another set, the streptococci, enter the lymph and fibrin. Cultivated to obtain sufficient quantity -angiectatic processes. Suppurative phlegmonous it separates albumen and fibrin through all the suc-, tracts indicate their presence. cessive stages of decomposition with its gases down The micrococci of gonorrheea are endowed with to its final products, carbonic acid gas, water and the property, according to Bumm, of penetrating to ammonia. No other bacteria have this property, and multiplying in the protoplasm of the urethral cells Artificial albumen is not attacked, and casein is not to effect their dissolution. Hence they are distributed touched by it. Hence it is that the stools of suck- by the lymph vessels or are carried directly, to be

the class of saprophytes. They have to do with the rus, sacs of the conjunctive, and joints of the knee. resolution of organic into inorganic matter, and they

grosser matters in the dust of coal, iron, etc. Each Bacteria of the Alimentary Canal.—The surface of micro-organism has its own history in its preference

The bacteria of decomposition take quite a different course. One set, the staphylococci, multiply in Bienstock, who has made a special study of these the connective tissue without entering the lymph veswith the specific property of decomposing albumen vessels and follow their course to constitute the lymph

found in the bladder, kidneys, Bartholine glands, peri-These bacteria of the intestinal canal belong to urethral abscesses, rectum, neck and body of the ute-

The bacillus tuberculosis, which is at the present are hence the greatest friends of man. They have time perhaps the most universally distributed of all no power of penetration to the blood. It is now pathogenic germs, finds less ready victims than that almost universally conceded that no germs exist in of cholera and milzbrand, because of its immobility, the physiological interior of the healthy body. No germs exist in healthy blood. An apparent exception proves the rule. In a number of observations with negative results, Klebs once found bacteria in dering cells sometimes carry it, but its transfer to distance the provided of the substitution of the healthy blood. Wandwith negative results, Klebs once found bacteria in the body remains, as a rule, circumscribed. Wandwith negative results, Klebs once found bacteria in the blood of an apparently healthy dog. It was tant organs, bones, joints, testes, meninges of the subsequently learned that bacteria of decomposition brain, etc., is chiefly effected by a quite accidental had been previously introduced into this dog in an irruption into blood and lymph vessels. Thus, Wei. experiment on wound sepsis. The animal had long gert has demonstrated at local depots the erosion of since perfectly recovered. The germs found by and penetration into the walls of veins, Koch a direct Klebs had still survived, and were remaining at the irruption into small arteries, and Ponfick the perfortime of the observation quiescent. It was an ob- ation of the thoracic duct with the sudden inundation servation useful also in illustration of the latent stage of the whole body to constitute the clinical picture of disease. But even useful saprophytic germs be- of miliary tuberculosis. Thus, also, is easily excome dangerous when they do enter the blood plained the sudden aggravation of tuberculosis in

latent, quiescent and convalescent cases of the this time a bacillus, of entirely different nature, whose

tion by typhoid bacilli of the intestinal mucous mem- the gases of decomposition. detection easy.

artificial culture soils.

no visible lesion, either in color or thickness, though toms of the disease. its lymph vessels were stuffed with micrococci. The changes induced by the micrococci.

The fact that the same local phenomena are pres- anatomists named tubercles. ent in erysipelas migrans without constitutional signs, brownish-red infiltration which takes the precise as in the interior of the cells. course of erysipelas. From this infiltration he was puncture, to produce the same condition.

ration or other destructive change than fatty degen- mate ultimate relations. eration of the epithelial cells and restitution by new

effect is to produce hamorrhagic infiltration of the Eberth and Gaftky likewise describe the penetra- deeper muscular structure, with the development of

brane, with subsequent infiltration of the submucous Action of Micro-Organisms on an Internal Surface. tissue, muscular coat, mesenteric glands, and escape -A good illustration of the action of micro-organthence into the blood to accumulate in the spleen, isms on an internal surface soil is offered by Löffler Hein claims to have discovered them in the spleen in the growth of the dumb-bell bacillus of diphtheria, during life, but Frænkel and Simmonds (Die actiolo- which produces deep and extensive layers of false gische Bedeutung des Typhus Bacillus, Hamburg and membrane in the fauces, pharynx, and trachea. The Leipsic, 1866), with good reason discredit this claim, glutinous and pultaceous mass thus formed is a quickthough they were able to make pure flat cultures from sand to catch and entangle the myriads of microthe spleen post-mortem in twenty-five of twenty-nine organisms ingested and inhaled, in such inextricable cases. The bacilli of typhoid fever increase in the confusion as to have made it for a long time impossspleen so rapidly soon after death as to render their ible to pick out the specific cause of the disease. Beneath this superficial layer Klebs and Löffler at The Effect upon the Tissues of the body presents last succeeded in finding a special layer containing the same differences as the effect upon culture soils numerous cells among which, aggregated in small outside of the body, and here again each micro-or- colonies, were special bacilli which admitted intense ganism shows its own peculiarities. The superficial coloration with methyline blue. The layer beneath catarrhal and diphtheritic processes, parenchymatous this again, directly superimposed upon the dilated infiltrations, coagulation necroses, neoplasms, etc., vessels, is a fibrinous mass composing the bulk of the coarsely correspond to the alterations observed in the false membrane. It contains but few cells and no bacteria, and represents the product of reaction of Erysipelas, again, a surface disease, open to in- the mucous membrane to the virus of the bacteria. spection, offers in the studies of Fehleisen perhaps. This deepest layer is produced by the coagulation of the most accurately recorded observations in this a fibrogenous exudation which escapes from the bloodregard. Fehleisen found that he could distinguish vessels and opposes a barrier to the further advance four layers or zones of inflammation. The first, the of the bacilli. Breaks in this barrier permit the abperipheric, extended about one centimetre beyond sorption of the virus emanating from the bacteria or the reddened and elevated border wall. It showed their products, to produce the constitutional symp-

Production of Neoplasms by Bacilli,—The bacilli wall mentioned is itself the second zone, the zone of of tubercle, leprosy, syphilis and glanders affect the inflammatory reaction. It consists of the rapidly soil of their selection in the body quite differently, multiplying micrococci with wandering cells which in that they produce granulation tumors, neoplasms have partly taken up, included or ingested the bacte- characterized by a tendency to rapid dissolution by ria, to finally displace and substitute them altogether. fatty or calcareous degeneration. The cellular ele-A small celled infiltration with a total absence of ment of these tumors resembles that of the lymph bacteria marks the third zone, while the fourth shows glands. Taking tubercle as a sample, they are round only pallor or anæmia of the skin in process of resti-cells, of various size, the medium size resembling a tution ad integrum. The accompanying fever and white blood corpuscle, with small, round, shining gastric catarrh—out of all proportion at times to the nuclei, provided with nucleoli. The large cells conextent of the disease—are the results of chemical tain two, even up to twelve nuclei. Accumulation of these cells constitutes the nodule which the old

A tuberculous mass, on schematic section, shows would indicate that this disease is due to a different, an outside ring of round cells provided with a single though allied germ. Rosenbach found this disease nucleus about a narrow ring of epithelioid cells, which often in individuals whose avocation deals with ani-finally enclose one or more giant cells. The bacilli mal matter. Slight wounds of the hands in butchers, of tuberculosis are found in all parts of the tubercu tanners, cooks, are frequently points of origin for a lous mass, free—that is, between the cells—as well

Behavior of Bacilli in Giant Cells .- But the most able to cultivate a special micrococcus inoculable by characteristic as well as curious phenomena are presented in the behavior of the bacillus in giant cells, True crysipelas is entirely unattended with suppu- a question which brings the subject to its most inti-

The giant cell, as is well known, is distinguished by formation. Suppurative or phlegmonous processes the number of its nuclei, as well as by its size. When indicate a mixed infection with the staphylococcus or now but a single bacillus penetrates to the interior of streptococcus which produce this condition. The a giant cell, whose nuclei are disposed about the cirsupervention of a still graver complication, gangren- cumference of the cell, it is commonly found in the ous emphysema, is due to another micro-organism, free space at or near the middle of the cell. But it

is more common to find all the nuclei grouped to- death of the cells, their hosts. Syphilitic neoplasms gether at one end, with the bacillus at the opposite, show the same phenomena, except that they are more often at the extreme opposite, end of the cell. The prone to undergo fatty degeneration, resorption and poles of the cell are thus occupied, one by the nuclei, cicatrization (Mittenzweig). the other by the bacillus. Thus they stand facing each other like foes, and it is impossible to resist the bacteria in the blood-current itself or their effect or conclusion that there exists between them an antag- action upon the elements of the blood is but little onism which keeps them as far as possible apart.



The Bacillus in the Giant Cell.

nuclei are all grouped about the centre or equator, or the relations being changed, the bacilli are disposed at the equator while the nuclei are grouped at the poles. It looks, Mittenzweig says, as if each group of nuclei was holding a bacillus in check. When the number of bacilli is greater, they do not



long remain in this passive state. For they are soon to be seen at different places in the cell, close to and between the nuclei, with their long axes perpendicular to the surface of the cell. The wall of the nu cleus is thus broken down and the giant cell succumbs. Groups of bacilli are thus found arranged in stellate form, but no longer surrounded with nuclei.

Koch concludes, hence, that the penetration of an epithelioid cell by one or more bacilli is the first step with wider confirmation, must throw light upon the or stage in the origin of a tubercle. The virus or obscure subject of immunity conferred by an attack poison emanating from the bacillus irritates the cell of disease against its repetition, as well as upon proto such degree as to lead to increase in its size and tective vaccination. For we lack as yet a sufficient multiplication of its nuclei; in other words, directly or satisfactory explanation of the immunity thus conto produce the giant cell. The irritation extends to ferred, though three plausible hypotheses have been neighboring cells, to induce hyperplasia, and to ves- proposed. The first is the theory of exhaustion, sels, to lead to emigration of the white blood corpus- which assumes that the germs of the disease exhaust cles. Meantime, the struggle continues in the giant the elements in the blood necessary to their nutrition. cell, to end occasionally in the destruction of the Something analogous to this is seen in vegetation of bacillus, but far more frequently in the triumph of higher structure, which cannot be made to grow inthe germ. They then break through the circle of definitely in the same soil. The second is the antinuclei, escape from the wall of the cell to attack new dote theory, or the theory of antagonism, which cells with similar fate. The ruptured cell suffers necrosis, the plasma current ceases, plasma and nuclei in the multiplication or growth of germs react upon coagulate, nuclei are broken up into debris, and the them fatally. The analogy here is found in the prowhole cell is converted into a homogeneous, inert, cess of fermentation, whereby the torulæ cease to dead mass. The condition may be arrested at this produce themselves, become quiescent and sink to stage, as in the spleen, or may, as is usual elsewhere, the bottom of the vessel as soon as the proportion

Bacteria in the Blood-current.—The conduct of known. In most cases the stay is too short for any When two bacilli are present it is not unusual to permanent effect. But one curious observation has find one at each end or pole of the cell, while the been made by Metschnikoff concerning the bacilli of milzbrand and the white blood corpuscles, which throws light upon the question of susceptibility and immunity of disease. With suspicion based upon the familiar fact of the absorption of food and foreign bodies into the interior of amceboid bodies, by protoplasmic protrusions and inclusions, and more especially upon the observation of a disease in small crustacea caused by the entrance or ingestion of a peculiar sprosspilz into the coloring blood corpuscles of the animal, Metschnikoff concluded to study the relations of the milzbrand bacillus to the white blood corpuscles of vertebrate animals. He soon discovered that the blood corpuscles of susceptible animals (rodents) only exceptionally incorporated virulent bacilli, whereas the blood corpuscles of insusceptible animals (frogs, lizards) took them up abundantly. Being thus ingested or included, they soon perish in the interior of the cell, to finally entirely disappear. The same fate awaits milzbrand bacilli in the bodies of susceptible animals, when the virulence has been attenuated or abstracted in any way, as by artificial





Leucocytes as Phagocytes.

Immunity.—These observations, should they meet suffer a later conversion into caseous matter. Bacilli of alcohol reaches twenty per cent. There is reason which have not escaped to other cells perish with the to think that the fever evoked by micro-organisms is

in some cases fatal to their growth and life. The either to deficient oxygenation or carbonic acid third is the theory of accommodation, which maintains that the tissues in their first struggle with the micro-organisms acquire a higher degree of energy or vitality, whereby they are enabled to endure or resist future attacks. Perhaps a simile may be found for

Incorporation and Absorption of Germs.—The observations regarding the incorporation and absorption | surface. of non-virulent or less virulent germs tend to support from them that protective vaccination, or more propclaim to secure prophylaxis in hydrophobia, a disease wound and the symptoms to make experiments even after the wound, in the hope of anticipating the attack of the disease. The fact that virulent bacteria are not absorbed would indicate, in the absence of any morphological difference, the presence in these bacteria of some chemical substance which antagonizes tional symptoms; sopor, stupor, coma, delirium, which supervene in cases of grave acute infections, bacteria act mechanically or by the abstraction of oxygen. In fact, neither the local nor the general signs of infectious disease are ever produced or can be produced in this way.

How do Micro-organisms Produce Disease!-The question now arises, how do pathogenic micro-organisms produce the phenomena of disease? From the that the symptoms and lesions of the infectious maladies were caused by the mere presence of these orsions of vessels. Further, it has been shown that no mere mechanical presence, no mere foreign bodies, aniline particles, or granules of cinnabar, ever fore be nourished at its expense, whereby they withoxygen. In processes of fermentation, outside air genic micro-organisms multiplying in great abun- without a distinct paralysis.

poisoning.

These symptoms indicate toxicæmia, and since the injections of fluids from which bacteria have been separated by porcelain filters remains innocuous, it follows that the toxic agent inheres with the bacteria. this hypothesis in the process known as acclimat- Then, inasmuch as blood corpuscles show their reaction against bacteria on simple contact, it follows that the poison must lie upon or issue from their

Ptomaines.—The only hitherto known poisons the theory of accommodation. For it would follow which may in such minute quantities induce such grave toxic signs are the poisons resulting from the erly inoculation of weak bacteria, must confer upon action of the bacteria of decomposition upon organic the blood corpuscles the power to incorporate and matter. As these intensely virulent poisons were destroy virulent bacteria. When protection is not first observed only in dead organic matter, they were sufficiently secured at once by a certain grade of at called ptomaines (from  $\pi\tau\tilde{\omega}\mu\alpha$ , the fallen, a corpse, tenuation, it might be accomplished by successive hence more grammatically ptomatins). These matattempts with gradually increasing potencies. Thus ters, the ptomaines, though so newly known, have successive inoculations of gradually increasing viru-received so much attention in the past year as to lence would finally permit the introduction into the form a subject in themselves. It may be said here body of the most intensely virulent bacteria with im- that some cadavers develop no ptomaines, that ptopunity. It is upon this theory that Pasteur baseshis maines are developed as putrefaction advances in the course of weeks, next that they are also found in which sufficient time lapses, as a rule, between the sometimes in animal products, as in cheese, urine, fæces, etc., and lastly, that many ptomaines are perfectly innocent. Then it might be added that many phenomena attributed to their action have been found due to simpler causes. Thus the claim of Passet that any one of the eight forms of bacteria which he cultivated from pus would coagulate sterilized milk the cell. Moreover, the character of the constitu- were found to rest upon simple lactic acid fermentation.

Brieger, who has made the most exact observaspeak in favor of this view, and against the belief that tions, operated with the Koch-Eberth bacillus of typhoid fever, which he cultivated from the spleens of fatal cases, and found to be identical with the pure cultures in the laboratory of Koch. These bacilli thrive in solutions of sterilized grape sugar, to which have been added the proper nutritious salts. clear fluid, kept in sealed tubes at a temperature of 30° C., becomes opaque in twenty-four hours after rapidity of their multiplication, it might be inferred introducing the bacilli, and emits, on opening the tubes, a distinct odor of ethyl-alcohol, which increases from day to day. Besides the ethyl-alcohol, there ganisms as foreign bodies. But it has been observed develop small quantities of volatile fatty acids, tothat the bacilli of milzbrand alone multiply in the gether with acetic acid in large quantity. The tybody in such number as to produce extensive occlu- phoid bacillus has also the property of inducing in solutions of grape sugar the lactic acid fermentation. Sterilized bouillon or minced meat used as soils, soon become alkaline, but develop, even after the lapse induce the signs of fever or toxicemia. The micro-organisms of disease live in the body, and must there-composition. From these as from all albuminous cultures, Breiger was frequently but not always able draw from the blood or tissues elements essential for to obtain a basic product which gave the chemical their nutrition. Pathogenic micro-organisms require and physiological reactions of a ptomaine. In guinea pigs it produced a slight ptyalism and an increased is excluded, that the germs of fermentation may be rapidity of respiration, to be followed later by a loss compelled to withdraw oxygen from its soil. Patho of power in the muscles of the extremities and trunk, There is diarrhœa dance seize upon the oxygen of the blood with such throughout; death takes place in twenty four to fortyavidity as to develop in fulminant forms the sympleight hours. The same observer is now experimenttoms simulated by prussic acid poisoning. But the ing with the septic diseases whose abnormal temperthe other symptoms mentioned do not correspond ature elevations, interruption of functions, benumbing of the intellect, perverse action of the digestive the time. Now, as there is no direct evidence that apparatus indicate abnormal chemical changes in any one disease or class of diseases are due solely to

high degree.

Nicati and Reitsch, Villiers, Pouchet, have all made similar investigations with the bacteria of cholera. According to Pouchet, chloroform extracts of cholera dejections furnish an easily oxydisable and intensely poisonous oily substance which is certainly a ptomaine. Mere traces of it introduced into the bodies of frogs induce retardation of the pulse, with speedy death attended by muscular rigidity.

Villiers also succeeded by the method of Stas in isolating a ptomaine from the intestines, kidneys, liver and blood in two cases which had succumbed to cholera. It was abundant in the intestines, but very marked change in the quantity of organic constituscant in the blood. It had a sharp taste and an odor like the flowers of the white thorn. It had no effect

the pulse, tremor and death.

According to the same author cultures of the cholera bacteria have a peculiar ethereal odor which is not unpleasant. Solutions of this culture not over bacteria, injected into the blood of dogs induces diarrheea and great depression, with dyspnæa, disturbances of motion and sometimes death.

show the direction of research at the hands of the most advanced observers in the past year. They indicate the lines of study by means of which we at hand when, as Brieger observes, we may as practitioners of medicine no longer be compelled to rely upon a raw empiricism, when we may find a specific therapy, if not remedy for a specific cause, since we have already learned that the accumulation of cernature of infection.

## ORIGINAL ARTICLES.

SUGGESTIONS ON THE PURITY OF CHICAGO DRINK-ING WATER.1

BY H. GRADLE, M.D.

EVE AND EAR SURGEON TO MICHAEL REESE HOSPITAL.

No question of local sanitation has been more often and less intelligently discussed in Chicago, than the purity of our drinking water. While alarmists have filled the newspapers with sensational exaggerations, our authorities have denied all danger on grounds insufficient to prove the point.

The starting-point of any discussion must, of runs towards the lake, which occurs a large part of

the drinking water thus contaminated, how can we decide whether any danger to health lurks in this water? Chemical examination can only tell us whether organic material exists to a larger extent in our drinking water than it does in other parts of the lake remote from our shore, or than it did in the same waters many years ago.

But a positive result of such analysis would not necessarily condemn the water unless there were an excess of albuminoid ammonia larger than the limit shown by experience to be safe in drinking water.

On the other hand, when the analysis shows no ents in the water, it does not decide the question as to the safety of the water. For there is no reason to upon frogs, but caused in guinea pigs retardation of think that in our present case, where the sewerage is diluted by the enormous body of water in the lake, there can be enough of any chemical substance present to produce any poisonous effects. A chronic poisoning or a cumulative effect produced by the coneight days old in bouillon or gelatine filtered free of tinued ingestion of an organic poison in such small quantities as not to produce any immediate sensible action is not known, and such a possibility is a gratuitous assumption not based on clinical evidence. These experiments are cited merely as samples to We are forced, therefore, to look for living microorganisms in any suspicious water-for at the present no other direct causes of diseases are known.

The algae and diatoms, and occasional infusoria, shall be able to combat the cause of infectious dis- figured by amateur scientists in the newspapers as ease in a direct way. They show us that the time is existing in our drinking water, are about as harmless as any other vegetable or animal tissues we might eat as food. It has never been shown that they are really poisonous or parasitic to the body. micro-organisms which demand our attention as suspicious, are the bacteria. Since they are not numetain products of bacteria kill them. They show us rous in any but stagnant water, the direct examinathat inflammation is not the cause but the effect of tion of the water with the microscope teaches very disease which is caused by infection. They show us little. Besides, hardly any variety likely to exist in the direct road to cure through comprehension of the the water could be identified on finding a specimen or two with the microscope.

In order to tell what there is in the water, we must do exactly as if we had a few seeds mixed with a lot of sand, and were unable to recognize them. We would sow them over a large surface of ground free from other plants and wait for the result,-identifying the

plants as they grew up.

I have made a few such analyses of our lake water, according to the methods devised by Koch. The sample bottles with flat sides which I show you here, are thoroughly cleansed and boiled, and then partly filled with a small quantity of nutrient gelatine and their mouths plugged with cotton. The bottles and their contents are then sterilized by heating them in a steam bath for a few minutes on several successive days. This being properly done, they will keep forever without the occurrence of any bacterial growth in them. If now one or more drops of water flowing from the course, be the fact, that the sewerage of this enor-faucet or received in a sterilized beaker are dropped mous city is carried into the lake-the source of our into these culture bottles while momentarily lifting drinking water, whenever the current of the river the cotton plug, any bacteria or their spores thus introduced with the water will grow in the gelatine. If the drops of water are thoroughly mixed by shak-

<sup>1</sup> Read before the Chicago Medical Society, May 3, 1886,

the number of germs contained in the water. Within I have not identified any pathogenic varieties. 36 to 72 hours according to the temperature, the colnaked eve.

ic properties by experimentation on living animals.

pathogenic species of bacteria. Apart from cholera occurrence.

In the culture analysis which I have made, I have counted from 35 to about 50 germs per drop of our hydrant water-equivalent to about 1000 to 1500 kinds of baccilli are common, while other kinds of hydrant water. baccilli and occasional micrococci and spirilla are A filter on a different plan, and which I have exam-

ing with the gelatine liquefied by gentle warming, the less frequently found. Many, if not most of the germs will be separated from each other, and on let- micro-organisms in our hydrant water exist in the ting the mixture suddenly congeal on the large sur- form of spores, which are not killed by momentary face of the flat side of the flask, and keeping the flask boiling. On staining the residue of a few drops of at a temperature of 18 to 22 C., the number of colo- water evaporated on a slide, there are indeed very nies of bacteria growing in the gelatine will indicate few developed forms found. I need hardly add that

Although these few analyses would, therefore, not nies grow sufficiently large to be counted with the entitle me to say that our water contains any deleterious matter, I do not see how we can escape the In order to identify the species we must note the conclusion that there is really danger, however slight, appearances and size of each colony, and then examin the use of our lake water. There were last year ine with the microscope the cells composing such a about 500 deaths from typhoid fever in this city. colony, both in the fresh state and after staining. If This means, perhaps, 5,000 to 6,000 cases of that disthis be insufficient to recognize the variety, we must ease. The discharges of all these patients contained make fresh cultures from such a colony in other and typhoid bacilli, which were carried into the lake. different cultivating media, or finally test for pathogen. Though the bacilli may die speedily in the water, their spores persist for days, if not for weeks and There is, however, a limit to the capability of this months. Is it at all conceivable that the currents method, viz .: our want of familiarity with all the should not carry at least some of them at times into the crib and water-pipes. I will not insist on the poswe know only one disease which has been traced in sibility of the discharges of different forms of diarsome instances to impure drinking water, and of rheea and dysentery reaching us in a diluted form in which we can identify the causative parasite, viz.: the drinking water, because, as I said before, we are typhoid fever. It is very likely that there are other not yet familiar with the germs of these diseases, and intestinal disorders of parasitic origin—the different do not know whether they produce persisting spores. forms of enteritis and dysentery, the germs of which Indeed, outside of typhoid fever, I could not name may be at times introduced by means of impure any danger threatening us in the water, if I depended drinking water. But this could not be proven at only on the known facts, but analogies and probabilpresent, because we do not know as yet the presum- ities suggest a great deal more. The enormous diluable germs of these diseases. It is also not impossition to which the sewerage is subjected when carried ble that the bacilli of tuberculosis, or their spores, into the lake, reduces, of course, the probability of may sometimes enter the system through the aliment- infection through drinking water very much, but does ary canal. Whether any other but intestinal affec- not remove it. The self-purification of water, which tions can be started by entrance of their causative undoubtedly occurs through the starvation of the parasites through the digestive tract, is not known in micro-organisms, and their deposition, and perhaps the case of any diseases of man, but judging from the oxygenation, pertains principally to the developed mode of introduction in animal anthrax, which is forms and not nearly so much to the spores. In most frequently intestinal, this is not an improbable short, we cannot but reason that of the millions of disease-germs poured into the lake, some few must find their way back into the systems of some of those who drink it.

Of all the purifying processes of drinking water, germs per cubic centimetre. This is much more than boiling is the simplest. About twenty minutes vigor-Frankland found in London drinking water (from 8 to ous boiling deprives the water completely of all living 70-extreme 382), and more also than was obtained germs. But the flatness of boiled water, as well as by the German Board of Health from the Berlin the turbidity which the Chicago water commonly water (usually from 20 to 100 or 200-sometimes to presents, renders filtration desirable. Frankland has 400, exceptionally), though the latter contained as found that sand or coke, or spongy iron, in layers of much as 1000 germs in each centimetre, before filtra- about six inches thickness, remove nearly, if not all tion in the water works. However, as bacteria exist micro-organisms from the water filtering through in all fresh waters on the surface of the earth, there is them, but that this retaining power decreases steadily nothing in this indicating any special impurity, for as in the course of weeks. As far as I have learned, we can judge from every-day experience, the immense most of the filters here in the market contain sand or majority of these bacteria are harmless. In my ear- charcoal, and as I have heen told by parties using liest observations, last summer, I counted six differ- them, many do not furnish water as clear after some ent varieties in my flasks. Since then my time and weeks or months as they do at first. The layer of facilities did not permit me to continue the very filtering material is neither thick enough nor suffi-tedious microscopic research necessary for differ-ciently packed to retain all bacteria, and should entiating the colonies. But from the gross appear-besides be changed from time to time. One charances of the colonies with which the first observations | coal filter which I tested gave a clear water, containmade me familiar, I would say that only three or four ing, however, nearly as many germs as the original

ined more minutely, is the Mallié Aerifilter (French cers. A new plaster, large enough to cover the hardpatent), similar to the one devised by Pasteur's ened border of the ulcer, was applied daily; later, assistant, Chamberland. It consists of a cylinder, after the surrounding parts had become somewhat with conical end, made of unglazed white clay, softened, it was applied to the ulcer only. The ulcer screwed water-tight to the faucet, and surrounded became gradually smaller, the last part being healed by a protective glass cap. If there be sufficient pres- by a weak nitrate of silver ointment. Four cases are sure in the pipes, the water filters through this clay given, in all of which the result was favorable. In cylinder drop by drop, to the extent of some two to the treatment of bedsores this plaster also acted four gallons per day (in Chicago). All visible solid admirably. particles are left in the interior of the cylinder, in the form of a slimy coat, which should be washed out excellent results in psoriasis. In its use there was no once in two to four weeks. The muddy washings from danger of the chrysarobin-conjunctivitis; and the this cylinder gives one a rather exaggerated idea of erythema produced by the drug did not extend beyond the dirt we are forced to drink. The microscope the parts covered by the plaster. shows it to consist of about half of living bacteria and brilliant particles (presumably spores), the other half being clay and sand, with occasional vegetable cells and fragments. The water furnished by this filter is of remarkable transparency. The very resi due in the filter shows that very few bacteria can have passed through into the water; but I cannot say that it is absolutely perfect, as would appear from lichen ruber. a testimonial given this filter in the Municipal Laboratory at Paris. On testing the water, by allowing treatment of infiltrated patches of eczema, also in drops to fall from the filter into gelatine flasks, I have verrucous and sclerous patches. This plaster also found that when the filter was well cleansed within acts well in epidermal hypertrophies, as clavus and some hours the water was entirely free from micro- callositas. In clavus salicylic acid and mercury organisms - but when the filter was left undis- plaster is preferred on account of its being less painturbed for days and weeks, a few colonies were invariably obtained, usually less than one-tenth the number contained in the original water. There were, moreover, not so many varieties as in hydrant water think that most of these bacteria found in the filtered cent. of extract of cannabis indica. water did not pass through the filter, but that the very few germs which did pass through, or which possibly came from the air, multiplied to some extent the stage of the lesion. If applied in the beginning, in the film of water between the clay cylinder and the 'the furuncle is aborted; if suppuration has set in, surrounding glass, for it is well known that even dis- the same continues, but the process is painless. The tilled water allowed to stand for hours harbors numer- frequency of renewal of fresh plaster depends upon ous bacteria. I judge so from the fact that after the amount of suppuration. This plaster acts equally cleaning the surface of the clay cylinder with a steril- well in other phlegmonous inflammations.—American ized brush and with water previously boiled, and Journal of the Medical Sciences, April, 1886. readjusting the glass cap after purification by boiling water, the filtrate was usually free from micro-organisms for several hours. This multiplication of bacteria on the surface of the filter does not detract from its merits, because in a film of water containing as little organic matter as ours, no bacteria of parasitic habitat, and hence, at all dangerous, could mic needle inserted, and about one-fourth of a drachin

## MEDICAL PROGRESS.

observations (Deutsche medicinische Wochenschrift, was then drawn forward, held between the blades of December 17, 1885) L. HOFFMAN refers especially a pair of dressing forceps, and quickly ablated with to the gutta-percha plasters. These have advantages a knife. The patient declared that the operation over the salve-muslins (Salbenmulle); they are per- gave him no pain nor sensation of any kind, exceptmanent, adhesive, comfortable, cleanly, and are more ing in one small place on the left side. I noticed, active.

Chrysarobin plaster (18 per cent. strength) gave

In several cases of eczema in which the disease was dry and circumscribed, oxide of zinc plaster was employed and effected rapid cures. In the more severe forms the zinc and tar plaster was found efficacious. In obstinate cases naphthol plaster (10 per cent. strength) was tried with satisfactory effects. This last plaster proved useful also in a case of beginning

Salicylic acid plasters are recommended for the ful. Salicylic acid plasters were found of value in the vegetable parasitic diseases, also in lupus and acne rosacea. The pain that the stronger salicylic acid plasters sooner or later give rise to, may be generally but one or two. I have some reason to moderated by the use of those containing 15 per

The mercury and carbolic acid plaster gave good results in furuncles. It acts differently according to

COCAINE IN CIRCUMCISION. - DR. JOHN MADDEN, of Wisconsin records a case in which he used a 4 per cent. solution of muriate of cocaine in circumcision.

Four points, practically equidistant, were selected upon the line of the intended incision, the hypoderof the solution was injected beneath the skin at each of these points. A piece of absorbent cotton was then saturated with the fluid, and placed in contact with the preputial mucous membrane. Testing the sensibility of the parts from time to time, by pricking with a needle, in about twenty minutes the sense of THE ACTION OF UNNA'S PLASTER-MULLS.—In his feeling was almost entirely abolished. The foreskin however, that the solution had filled the subcutaneous The boric acid plaster proved of value in leg ul- tissue beneath this place. The mucous membrane

was next caught up, and quickly cut off with a pair renal arteries—and downwards into the iliac arteries 15, 1886.

THE SUGAR-FORMING FUNCTION OF THE LIVER.-In response to Hofmeister's recent adverse criticism (Archiv f. exp. Path. und Pharm., xix) of the view that sugar was formed in the liver out of peptone, PROF. SEEGEN, of Vienna, gives the details of some experiments in which he found that the quantity of nitrogen yielded from 100 c.c. of fresh arterial blood mixed with fresh liver tissue, and treated with a curquantity of peptone had been added. The quantities of nitrogen in six experiments were:

WITHOUT PEPTONE.	WITH PEPTONE.
0.113	0.300
0.050	0.105
0.043	0.092
0.114	0.252
0.140	0.216
0.070	0.159

The peptone and other proteids having been completely removed before the nitrogen was estimated, it must have come from the products of decomposition of nitrogenous materials and it appeared doubtless to him that in the presence of arterialized blood the liver cells split peptone into sugar and some crystalline nitrogenous product, and he believes that at least in the case of carnivorous animals, one of the chief duties of the peptone is to form sugar.

experiments.

ments to prove that the production of sugar in the April 17, 1886. liver is not-in contradistinction to the production of glycogen-interrupted by inanition or increased by ber 5, 1885 .- American Journal of the Medical Sci- disease: ences, April, 1886.

EMBOLISM OF THE AORTA. - DR. VINCENZO CAM-MARERI, of Naples, has published a memoir upon case in 1835 and Romberg's ten years later. In the beyond this may generally be expected in myoma. majority the cause is embolism proceeding from the sis extending upwards—rarely above the level of the the situation of the outgrowths variable.

of seissors. Its sensibility, though very much less- and their branches. The event is marked by the ened, was not entirely destroyed, and the patient sudden appearance of complete and painful paraplegia. Complained of some pain. The operation was completed by stitching the mucous membrane and integu- there is tetanic rigidity of the lower limbs; the rement together, the former growing more painful flexes and sensibility are abolished. Often in additowards the end of the operation, while the latter tion there are other symptoms -ashæmaturia, ischuria, preserved its anæsthesia. - Therapeutic Gazette, April suppression of urine, rachialgia, acute decubitus, etc. Whether a fatal result occurs rapidly or not depends upon the extent to which the vessel is obliterated; in some cases, owing to partial obstruction or to a certain amount of collateral circulation, life has been prolonged for several weeks, or even months. The paraplegic symptoms have been ascribed by some to anæmia of the muscles, by others to anæmia of the cord; but the writer demurs to the latter explanation, except in cases where the coagulation has extended high enough to block the lumbar arteries; but even rent of air for some hours, was greater when a small here he thinks the paralysis may be explained by interference with the muscular nutrition. Experimental ligature of the lumbar arteries in the dog produces paresis of the hind limbs, but the paraplegia equally follows the infliction of the wound without ligature. The author then explains the muscular paralysis following upon obstruction of the aorta as being due to the absence of oxygen and the presence of an excess of carbonic acid in the tissues. In like manner he explains the absence of reflexes; whilst the occurrence of muscular rigidity in some cases is compared with cadaveric rigidity-attributable, that is, to coagulation of myosin, and not to over-excitability of the muscle. The same "asphyxial" condition of the tissues is held to account for the anæsthesia, whilst the symptoms of pain is attributed to irritation of nerve fibres from the presence of products of disintegration, the nerves being rendered excitable by imperfect anæmia or collateral hyperæmia. The lowered temperature, ædema, and gangrene are easily explicable by the stasis that In a second paper Prof. Seegen gives three exper- is established, and the supervention of syncope from iments on dogs by which he attempted to settle cardiac paralysis may be due to heightened arterial finally the vexed question whether a diet of cane tension. The frequency with which aortic embolism sugar causes sugar to appear in the urine. He found is associated with mitral stenosis does not appear to both cane and inverted sugar in the urine in all three be insisted on; but is easy of explanation, since it is especially in such cases that thrombi sufficiently large In a third paper he brings forward elaborate argu- to block the vessel are found in the auricle.—Lancet,

DIFFERENTIAL DIAGNOSIS OF DISTENSION OF THE abundant carbohydrate ingesta, but is an independent FALLOPIAN TUBES,—MR. JOHN W. TAYLOR points and unintermittent function of the tissue changes. — out what he thinks are the chief marks of similarity Archiv f. d. Gesam. Physiologie, Bd. xxxvii, Novem- and difference between uterine myoma and tubal

> 1. Menorrhagia may be common to both diseases, but in uterine myoma it is painless, in tubal disease it is very painful.

2. Moderate enlargement of the uterus (from 3 to Obliteration of the Abdominal Aorta, which is sum- 312 inches) is present in tubal distension accommarised in Le Progrès Médical (No 13). He has col-panied by hæmorrhage (as in most cases where metror-lected all the cases on record, starting from Barth's rhagia is a prominent symptom); an enlargement

3. The tumor formed by distension of the Fallopian ventricle, the embolus being arrested at the bifurca-tube is always single or double, and is always posterior tion of the aorta, and leading to secondary thrombo- to the uterus; nodular myoma is usually multiple, and

when chronic and quiescent, is always very tender to The patient was fully conscious and in a peculiarly touch, whether that touch be from the examining placid state of mind, being pleased with everything. finger of the surgeon, or from the passage of scybala He forgot, however, a number of abstract nouns and through the rectum; a myomatous nodule, unless in- all proper names; his memory for numbers was also flamed, is comparatively insensitive. Probably, for affected, and he had forgotten how to read. The

its firmness or consistency, and at some time or other cidedly irritable and suffered from insomnia and Leadwill show signs of elasticity or fluctuation; that of ache. The paralysis of the leg passed off during the nodular myoma remains hard.

slowly by its own weight; the latter reaches a lower April 17, 1886. point only by increased growth.

8. When pregnancy occurs, the uterine enlarge-

founded with distension of the Fallopian tube is cyst showed that the myocardium was broken up. Each or abscess of the ovary. A special form of cystic disease of the ovary is often, perhaps generally, combined with occlusion and distension of the tubes; mentary degeneration. In both cases the lesion of and if the latter be correctly diagnosed in these uterus. By this means I have on two or three occa- 15, 1886. sions diagnosed a cystic condition of the ovary only, when tubal disease has been expected; a diagnosis Medical Journal, April 17, 1886.

Skull.—A case of extensive wound of the skull and mined to make a series of experiments on dogs and brain is reported in the Russian Herald of Forensic rabbits for the purpose of satisfying himself of the Medicine. The patient was a man who had been truth of Block's assertion that sutures may, under struck by a piece of an anvil of about seventeen certain circumstances, be applied to the walls of the pounds' weight. The wound extended from half an heart. Though the Russian observer has not as yet inch above the concha of the left ear to the right concluded his investigations, he has published a pre-parietal eminence. The fracture of the skull corre-liminary note in the Russkaya Meditsina (No. 11) in sponded in length and position with the external which he states that the hearts of some animals will wound. In many places it was splintered, the pos-bear transfixion with a fine trocar or a needle, also terior edge of the fracture being raised above the that wounds of the heart in animals may be cured by level of the anterior edge. The whole wound was means of sutures, but by no means always. filled with crushed brain-substance, partly gray and found, too, that the pericardium might be opened in partly white. There was both motor and sensory dogs without any serious effects, but that wounds of paralysis of the right arm. The power of sensation the large vessels at their exit from the heart were inin the right leg was diminished; the pulse was 80 and variably fatal. - Lancet. April 24, 1886.

4. The tumor formed by a distended tube, even the respiration 20; the temperature was also normal. a similar reason, dyspareunia is a very general symp-tom of tubal disease, but is almost unknown in myoma. completely healed in fourteen weeks. During this 5. The outline or shape of a distended tube is fairly time ten splinters were removed. The symptoms of constant, in possessing a longer and a shorter axis; amnesic aphasia gradually passed off. The memory that of nodular myoma is round or quite irregular. for abstract nouns returned in about a fortnight. The 6. The tumor caused by a distended tube varies in placid humor passed away, and the man became defirst few weeks. Sensation returned in the arm and 7. Both a distended tube and myoma of the posterior uterine wall may sink lower in the pelvis by causing retroflexion of the uterus; but, apart from this, the former, although not adherent, tends to sink headache and great feebleness of memory.—Laneet, slowly by its own waight; the latter reaches a lower Avil 12. 1826

AN UNUSUAL CARDIAC LESION.—M. DÉJERINE ment being caused chiefly by the development of the made a communication, on Dec. 26, to the Biological muscular tissue of the uterus, a myoma of this tissue Society of Paris, concerning an unusual cardiac lesion will be much more likely to be raised by the growing causing sudden death in two patients convalescent uterus than a distended tube, which is only adherent, from typhoid fever. There were no cardiac sympand often but lightly, to its peritoneal investment. toms during life. At the necropsy there was an ab-The only other condition that is likely to be consense of lesion, but examination with the microscope cases, this is sufficient for every practical purpose. tercellular cement of Eberth, which in a normal con-But ovarian abscess or cystoma of the ovary in an dition unites the cells of the cardiac fibres. The early stage, the associated tube remaining normal, phenomenon is observed in patients in an asystolic needs rather careful differential diagnosis from a discondition. It is due to the fact that the intercellular tended tube. I have found the chief point of differ- cement is dissolved by sarcolactic acid, which is ence to be this: that, in cyst or abscess of the ovary, formed in great abundance. There were no bacilli a space can be found between the tumor and the in the myocardium. Landouzy and Renaut have uterus unoccupied by any swelling; in distension of described this lesion in the myocardium subsequent the Fallopian tube, the tumor is continuous with the to pericarditis. - London Medical Record, March

SUTURES IN THE HEART .- A paper of Block comwhich has been confirmed by operation.—British municated to the eleventh congress of the German Surgical Society, 1883, on "Wounds of the Heart and their Cure by Sutures," having attracted the at-Effects of an Extensive Fracture of the tention of Dr. Philippoff, of Kharkoff, he deter-

## Journal of the American Medical Association. PUBLISHED WEEKLY.

general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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#### SATURDAY, MAY 15, 1886.

## AMERICAN MEDICAL ASSOCIATION, THIRTY-SEVENTH ANNUAL MEETING.

The thirty-seventh annual meeting of the American Medical Association was held in the Exposition Building at St. Louis from the 4th to the 7th of May inclusive. The number of delegates and members in attendance was unusually large, the registration showing about 1,100 present. The facilities for registration were admirable, and everything under the care and the Chairman of the Committee, Dr. Le Grand Attwood, discharged his duties to the satisfaction of all. The President, Dr. Wm. Brodie, of Detroit, de- DR. DICKINSON'S WORK ON RENAL DISEASES. livered his Address in good style, and was listened to We have before us two copies of the third volume the Congress, appointed the general officers of the Dickinson. Congress, the chief officers of the Sections, and a local No work in any language has hitherto appeared

under the Rules, the President, Secretary-General, Treasurer, and Chairman of the Finance Committee of the Congress and the Presidents of the several Sections constituted an Executive Committee of the THE EDITOR OF THIS JOURNAL would be glad to receive any items of Congress with full power, all the further business and management of the Congress, including the filling of containing items of information should be accompanied by the writer's full any vacancies that might now or hereafter exist, had been transferred to such Executive Committee.

The report was, on motion, received, and adopted with a decided degree of enthusiasm, and without an audible negative vote. As the very large hall contained at the time about 1000 delegates, representing the Profession of almost every State and Territory of the country, it ought to satisfy all parties at home and abroad, that the medical profession of these United States, in whose name the Congress was invited to meet in Washington, on the first Monday of September, 1887, is earnestly and unitedly engaged in making every necessary arrangement for the cordial reception of a great and truly International Medical Congress, at the time and place appointed.

The harmony, good order and enthusiasm thus exhibited during the first session was continued throughout all the subsequent three days' proceedings and to the hour of final adjournment. The several Sections were also supplied with a large number of papers and interesting topics for discussion, and the quality of their work will compare favorably with that of any of of the Committee of Arrangements well planned and the general organizations of specialists in this counjudiciously executed. The address of welcome by try. The full record of the proceedings, as furnished the Mayor of the city was appropriate and cordial, by the Permanent Secretary, will soon reach us, and will be given to our readers without further delay.

with close attention to its close. It was given to our of Dr. Howship Dickinson's work "On Renal and readers in full last week. Following the President's Urinary Affections;" the one published for the author Address, came the report of the Committee on the by Longmans, Green & Co., of London, with the Preliminary Organization of the Ninth International notification on the title-page that all rights are re-Medical Congress. The Committee had held a reg-served; the other a mutilated reprint, a pirated copy ular meeting the day previous in a parlor of the Lin- of the result of years of earnest faithful work. The dell Hotel, and after learning the progress making latter is issued by a New York firm, as the August, by the Executive Committee of the Congress, also in 1885, number of "Wood's Library of Standard Medsession at the same time, they prepared a brief report ical Authors." The English edition contains 689 for the Association. Dr. J. S. Lynch, of Baltimore, pages of reading matter; the mutilated edition 337 Vice-President of the Committee on Organization, pages. Nowhere in the American edition (though presented the report to the Association, which simply we must blush to call such an edition "American") stated that after mature deliberation and several full is there any reference to the fact that it is the third meetings of the Committee, they had adopted the volume of a work destined to become classical; but Rules necessary for the organization and business of it is issued as though it is the complete work of Dr.

Committee of Arrangements at Washington; and as which contains so much valuable matter in regard to

renal and urinary affections as the work of Dr. Dick-terferes with the continuity or limits the authority. inson. He has been more than a decade in prepar- In the first place eleven illustrations are omitted in ing the book for publication, and anyone who will the mutilated reprint. In the chapter on Renal Calgive himself the pleasure of reading it will be conculus, in speaking of ulceration of calculi into the vinced that the time has been well spent. He has stomach, is a quotation from Rayer, of almost half a brought before the medical public a vast record of page, which has been omitted altogether. In the chapexperience, and has embodied in the work a large ter on Chyluria thirteen and one-third consecutive number of most valuable records of clinical cases, pages of clinical reports have been omitted, in which, in occurring in his own practice and in that of other ob- the original, are two valuable tables. In the chapter servers. While at first blush it might seem that the on Intermittent Hæmaturia or Hæmo-globinuria we subject could have been treated of in a much smaller find that 30½ pages have been omitted, with a valunumber of pages, a careful survey of the book will able table; though of course such a small omission show that it is far from being a diffuse work. The "in no degree interferes with the continuity" of the ing work and rich experience.

can publishers have added the following note to the of the case is omitted in the revised American ediauthor's preface: "The numerous cases cited in detion. Dr. Dickinson quotes in full a case from Taytail in the English edition of this volume have been lor, of a man who had suppression of urine after reprinters obtained the medical education and aua valuable book, without so much as "by your leave" to the author, and say to the profession: We now give you an edited copy of Dr. Dickinson's work; the original contains a large amount of extraneous matforeign authors have no rights in America that we of the hospital. should respect, the book is too big, and while we are pirating it bodily we may as well cut it to suit our-nuity and non-limitation of authority demanded that selves. Besides, very few of those who get our cleven cuts should be omitted. Would that some "Library" will buy the original work, and they will consideration had demanded that many more should never find out that anything of value has been omitted. have been omitted from the mutilated edition. Dr.

clinical cases given cannot be looked upon as un-book. In the chapter on Hæmaturia are records of necessary padding; without exception they are in-five cases showing the association in infants of bloody teresting and valuable, and the reader will often wish urine with unsuitable food. These records are omitthat the author had given more cases. The illustrated from the reprint, but the paragraph following the tions, as a rule, are good, and well represent what is omission commences, as in the original: "The cirintended to be shown. While we are patriotic enough cumstances of these cases," etc! In the chapter on to wish that such a book could have been the work Suppression of Urine is a full record of a case quoted of an American author, we are not the less most will- from Mr. Hutchinson, and a few pages further on the ing to say that we must congratulate the profession case is referred to by page reference. The American on being able to obtain this monument of painstak-editors (!) have omitted the record of the case, but guilelessly refer to it. On the same page is a refer-In the mutilated reprint of this volume the Ameri- ence to a case reported by Dr. Todd, but the record omitted in this edition in order somewhat to reduce taking two drachms of corrosive sublimate. The its size. It will be perceived that the text of the revisers say, in a rather lonesome looking paragraph: work has been so prepared that this omission in no "Taylor relates the case of one John Wright, 38 degree interferes with its continuity, nor does it limit years of age, who swallowed two drachms of corroits authority." Whether this is true will be seen later, sive sublimate, and an hour afterwards was received But the first question that arises is, Where have the into Guy's Hospital." While it was perfectly proper that John Wright should have been received into thority that entitles them to abolish a large portion of Guy's Hospital after taking two drachms of corrosive sublimate, it would have been somewhat to the point to have said why he was carried there, and what became of him subsequently. Taylor says that there was complete suppression of urine, that he survived ter, but we have cut this out, and at the same time for four days, and, what is especially interesting, the retained the continuity and authoritative tone of the record of the autopsy is given. But the professional book? The answer is not direct, and may be read experts who omitted this case (without interfering between the lines of the announcement quoted above: with the continuity of the work) evidently thought Here is a good book by a foreign author, but it is too it sufficient to give only the name and age of the large for our "Library of Standard Medical Authors;" patient, the amount of the drug taken, and the name

We have already said that preservation of conti-And now as to the omission which in no degree in- Dickinson would doubtless be surprised to see that the ingenuity of the editors has added many things Medicine in the University of Michigan, President sun-flower.

On summing up the total loss we find that eleven busy to write for the purpose of killing time. The eminently qualified to fill the place. author says in his preface: "I am assured that much These important appointments, with much addiof any interest which may be found will be in the tional work in regard to details, will enable the Comclinical and pathological cases;" and the intelligent mittee at an early day to issue a second circular reader will endorse the assurance. The editors, how- giving the Preliminary Organization of the Congress ever, on account of a superior knowledge and acu-complete, including the foreign officers required by men, have decided that the cases may as well be left the Rules previously adopted, and such additional out! If such things can be the time cannot come information as can be furnished by the Local Comtoo quickly when an International Copyright law will mittee of Arrangements at Washington. lay its hands on those who seem to be destitute of all moral sense and obligation.

#### THE INTERNATIONAL MEDICAL CONGRESS.

Davis, of Chicago, was elected unanimously Presi- every State. dent of the Congress to fill the vacancy occasioned About a year ago we took occasion to notice the the place made vacant by the resignation of Dr. R. four applicants; of these, twenty-five passed the Supervising Surgeon-General of the U. S. Marine Up to this time, then, about one hundred graduates the Congress to fill the place made vacant by the ceeded in passing the examinations. election of Dr. Davis to the Presidency.

to his illustrations. Emboli, thrombolic deposits, of the Section of Pathology; and E. Williams, M.D., Florida moss, bee-line capillaries, and scroll-work of Cincinnati, President of the Section of Ophthalhave been generously supplied, doubtless at consid-mology. In compliance with the earnestly expressed erable additional expense to the editors. One large wish of both the otologists and laryngologists, the cut is labeled "Tuberculous Kidney." It would be latter were given a separate Section, with Wm. H. more in place in a horticultural guide as a hybrid Daly, M.D., of Pittsburgh, Pa., President, and Wm. Porter, M.D., of St. Louis, Mo., Secretary.

H. O. Marcy, M.D., of Boston, at his own request. illustrations and one hundred and fifty pages (plus) was transferred from the Presidency of the Section have been omitted from the American edition! True, of Collective Investigation, Nomenclature, Vital Stathe pages omitted are reports of cases; but they are tistics and Climatology, to the Vice-Presidency of the valuable and necessary for the proper comprehension Section of Gynecology, and the vacancy occasioned of the subject. Dr. Dickinson is not a man who by this transfer was filled by the unanimous appointwould pad a volume to make a show, and he is too ment of Albert L. Gihon, M.D., U. S. N., a man

#### THE VIRGINIA BOARD OF EXAMINERS

The report of the Virginia State Board of Medical Examiners, which is published in the May num-A meeting of the Executive Committee of the ber of the Virginia Medical Monthly, will be of con-Ninth International Medical Congress was held at siderable interest to State medical examiners genethe Lindell House, in St. Louis, on the 3d inst., at rally, and to all others who hope for a higher standard which a large majority or the Committee were present, of medical education in this country. The State Reports of sub-committees were presented and legislatures, one after another, are passing medical much progress was made towards completing the de- practice acts, and we may now hope that within a tails of the preliminary organization. Dr. N. S. very few years there will be an efficient board in

by the death of Prof. Austin Flint. Dr. J. A. Grant, efficient work done by the Virginia Board. At a of Ottawa, Canada, was elected Vice-President in meeting of this board, on April 7, there were thirty-Palmer Howard, of Montreal. J. B. Hamilton, M.D., examinations, one withdrew and eight were rejected. Hospital Service, was elected Secretary-General of have applied for licenses, and sixty-six have suc-

Of the examinations, which are written, we may say James F. Harrison, M.D., Chairman of the Faculty that while they are not unnecessarily severe they of the University of Virginia and Professor of Medi-seem to be unnecessarily long, and tend to be too cine, Obstetrics and Diseases of Women, was elected much tests of physical endurance. For example, President of the Section of Gynecology; J. H. there were six questions in chemistry, each with sub-Callender, M.D., Professor of Physiology in the divisions; eight questions in anatomy, each one with Nashville and Vanderbilt Universities, Tennessee, subdivisions; five in hygiene, each with subdivisions; President of the Section of Physiology; A. B. Palmer, eight in physiology; fifteen in materia medica and M.D., I.L.D., Professor of Pathology and Practical therapeutics, some with subdivisions; six in obstetrics; five in practice of medicine, each with tedious had been confounded with cynanche tonsilaris. subdivisions; and twenty in surgery, the last of which is, "Describe the methods of resuscitating the drowned?" Now, the plan of the examination announces that "the applicant is required to answer at least three-fourths of the questions satisfactorily, and to show a fair general knowledge of all the branches J., colored, 17 years of age, was shot by her husband, early in January, 1885. The weapon used was a revolver carrying a No. 32 ball. The shot was fired at make only 3313 on a given branch, but must aggregate 75 per cent. of the entire questions. We notice that "some of the best examination papers that were profuse hæmorrhage at the wound of entrance. There presented kept the gentlemen busily at work from 10 or 11 o'clock Wednesday morning, till late hours at night each day until Friday and even Saturday." It would seem that the examinations might be quite thorough with fewer questions and a limited number of hours. We can scarcely go amiss in saying that there are very few men in active practice who could answer 75 per cent. of the questions within two days ity and rested against the uvula, and extended exof twelve hours each. It seems rather questionable ternally from the anterior petrous portion of the if an examining board should ask such a question as "Give the anatomy and function of the lymphatic system," when physiologists and anatomists are not at all agreed as to the answer. It is probable, too, that the student and examiner might differ as to the source from which the heart receives its nervous supply, and as to the phenomena of pancreatic digestion. So, also, in describing the management of shoulder presentations; some obstetricians are positively at variance regarding the management of these cases. However, the fault that we find is in regard to the number of questions. It is better to be too severe than so lenient as to admit an unqualified man.

## SOCIETY PROCEEDINGS.

### AMERICAN SURGICAL ASSOCIATION.

Seventh Annual Session, held in the Reading-room of the Army Medical Museum, at Washington, April 28, 29, 30 and May 1, 1886.

> (Concluded from page 528.) FRIDAY-APRIL 30-THIRD DAY. MORNING SESSION. THE PRESIDENT IN THE CHAIR.

DR. T. F. PREWITT, of St. Louis, read a paper on TRAUMATIC ANEURISM OF THE INTERNAL CAROTID ARTERY.

He first referred to those cases of spontaneous aneurism of the internal carotid artery which are found

had been unable to find more than one reported case of traumatic aneurism of this artery. This was reported by Dr. Wm. T. Briggs, of Nashville. The aneurism in that case followed a stab wound and was operated on successfully.

Dr. Prewitt then described the following case: E. a distance of two feet and entered the cheek over the malar bone, ranging backwards. There was some was no wound of exit. The bleeding was controlled by compression. There was hæmorrhage from the ear at the time, and this recurred on two or three occasions. For some time after the accident the patient stated that there was some hæmorrhage from the mouth and nose on rising in the morning. There was some swelling at the time which gradually increased until April the 2d, when she was seen by the speaker. It then projected into the pharyngeal cavtemporal bone to the hyoid bone. The swelling pulsated in every direction and gave thrill and bruit. Immediately after the accident there was paralysis of taste and of the right side of the tongue; this continued. Pressure upon the carotid artery arrested the pulsation in the tumor. There was no difference in the pulsation of the two temporal arteries, the pupils were equal and respond normally to light. There was persistent headache with sounds in the ears, which was increased by lying upon that side. The voice was greatly interfered with, owing to paralysis of the right vocal cord. The appetite was poor and the patient emaciated. She was unable to swallow solids and fluids regurgitated when the attempt to swallow was made.

With this history and with these symptoms it was decided that there was an urism of the internal carotid artery, and that the vessel had been wounded near the carotid foramen, for nowhere else are the artery and nerve in such intimate connection.

It was determined to at once ligate the common carotid artery. The usual incision was made and the dissection continued until the artery was exposed. A silk ligature was passed from behind forwards. The vessel was then lifted, to be sure that the pulsation was arrested before the ligature was applied. Finding that it was, the vessel was then tied. The pulsation was at first arrested, but in a few minutes it could be again felt. In the absence of all precedent it was concluded to extend the incision upwards in front of the tragus and determine the feasibility of opening the sac and tying the distal end. This was a forlorn hope, for the diagnosis was that the aneurism was seated inst external to the carotid foramen. An incision was then made below the ear and extended upwards back of the ear. A cantious dissection revealed the fact that the sac filled all the space between the mastoid process behind and the condyles and ramus of the jaw in front. It extended to the in literature and, the frequency with which this lesion base of the skull, to which it was closely adherent.

It was therefore impossible to reach the artery in that into the sac and the common carotid ligated. When following day. Examination showed a little coagu-lum at the angle of the jaw, which was removed and the left forefinger thrust into the opening. No coag-lum could be felt within the sac. The attempt to the University Hospital with a tumor as large as an

cular Herophili.

nal carotid artery from those of other arteries in this rupture occurred, he had determined to have laid the situation were then considered. As regards opera-tion in this case compression and ligation were con-history of these cases he believes that in this condi-sidered, but compression was rejected on account of tion the operation should be a formal one of section the urgency of the symptoms. The patient was not of the jaw, and then proceed to ligate above and a suitable one for this mode of treatment, being ig- below the sac. norant and irritable, and unfitted to endure the anskilled attendants available.

at both ends.

himself at the clinic with a swelling of the neck pre-physician was inclined to attribute it to apoplexy. senting all the evidences of aneurism. He consid- Dr. L. McLane Tiffany, of Baltimore, said that in cred it to be a small aneurism of one of the branches the case reported by Dr. Prewitt there was no room of the external carotid artery that could be readily for a distal ligature. In this case, however, it might reached and ligated. He made an opening large have been possible to apply a compress, pressing the enough to permit the introduction of the finger, and artery against the base of the skull.

at once found that the condition was more serious.

DR. T. F. PREWITT agreed with those who had

direction. Further attempts were abandoned, the the sponge was removed, the hæmorrhage was as free wound was closed, a drainage-tube inserted and an as before. The opening in the sac was then enlarged. antiseptic dressing applied. During the following the opening of the artery having been found and conseven days the temperature varied between 101° and trolled by the finger. The vessel was then hooked On the eighth day, there was some hæmor- up and a ligature applied above and below the sac. rhage from an opening near the angle of the jaw. The patient recovered and is still living in perfect This was repeated and she spat up some blood on the health. He thinks that in all cases where it is possi-

detect the entrance of the artery with the finger orange just beneath and behind the angle of the jaw. failed. In order to avoid the hamorrhage which There was also a projection into the pharynx. This would follow the removal of the finger the sac was tumor had grown slowly for eight months, and was stopped with lint treated with iodoform. This con- attributed to a blow on the side of the head. He trolled the bleeding. The patient gradually became considered it a case of aneurism of the internal carweaker and died on the twenty-fifth day after opera- otid, and ligated the common carotid above the omotion from exhaustion. Ten days after the sac was hyoid muscle. The pulsation was diminished, but it stuffed, epileptiform convulsions involving the facial could still be felt. He attributed this to the commuscles and the flexors of the forearm and hand apmunication with the external carotid artery. He peared. These continued at intervals until her death. then tied the superior thyroid and the lingual. This The post-mortem examination showed the ball in stopped all pulsation. The patient did well for two the posterior part of the sac. The opening of the weeks, when pulsation again returned. Pressure on carotid artery was found close to the carotid foramen the carotid of the other side controlled the pulsation, and seemed blocked up with clot. The blood-vessels and he then placed a ligature around the primitive of the membranes of the brain were congested, par- carotid of that side. During his absence from the ticularly on the right side. The inferior petrosal and city, ulceration took place and a gush of blood into lateral sinuses were filled with thrombi up to the tor- the pharynx occurred. The resident stuffed the cavity, but the patient died eight days later, apparently The differential diagnosis of aneurism of the inter-from septic poison. If he had been present when

Dr. A. Vanderveer, of Albany, said that in Denoyances of this method of treatment. Neither were cember, 1882, a man 42 years of age, a farmer, was sent to him with a swelling of the neck which was Dr. J. FORD THOMPSON, of Washington, had never diagnosed to be an aneurism of the internal carotid seen a case of aneurism of the internal carotid artery, artery. It was attributed by him to forced motion but should think that the diagnosis would not be es- of the head to one side which was required in a cerpecially difficult. It would perhaps have been better tain part of his work. It was determined to first try if the operation of Syme had been performed, or, if compression. This was faithfully carried out, and at necessary, the suggestion of Guthrie might have been the end of six days the swelling was much diminished carried out; that is to make a section of the ramus and the tumor in the pharynx seemed more solid. of the jaw, to afford more room for dissection. As He then went to his home, but returned one month this lesion is followed by certain death, his opinion is later, the previous condition having returned. Comthat it is the duty of the surgeon to perform the old pression was again tried, and at the end of five days operation, cutting into the sac and ligating the vessel there was a marked diminution in the size of the tumor. He again returned home and continued in Dr. William T. Briggs, of Nashville, said that apparently good health for four or five weeks, when the case which he reported at a previous meeting of he suddenly complained of a severe pain in his head the Association was that of a young man stabbed in and fell dead. An autopsy was made, but no satisthe neck. Five weeks later the patient presented factory explanation of his death could be found. The

The hæmorrhage was controlled by stuffing a sponge taken part in the discussion that the old operation is

the proper one for traumatic aneurism where it is cord may extend downwards and may spread over possible to apply it. In this case this could not be testicle, and it is possible that this case may have bedone. If the circumstances had been suitable, he gun in that way, but there was nothing to indicate should have tried compression, but the symptoms such an origin. The rarity of the lesion. coupled were too urgent to permit of this.

Dr. Roswell Park, of Buffalo, exhibited a

#### TRACHEOTOMY TUBE.

This was a bivalve instrument, the blades opening laterally and provided with an obturator permitting its ready introduction. The great advantage claimed for the instrument was the ease with which it could be cleansed.

Dr. Park then reported a case of

LIPOMA TESTIS, OR A LARGE ACCUMULATION OF FAT IN THE TUNICA VAGINALIS,

Lipomata of the spermatic cord are rare enough 10 always attract attention, but lipomata of the testicle are of such exceeding rarity that, believing that he had had a case which deserved this designation, he desired to put it on record.

J. P., age 40, was first seen in September, 1885. For eighteen months the patient had noticed a slow but continuous enlargement of the right testicle. This was almost painless, but caused inconvenience by its weight. At this time the tumor had reached the size of a cocoanut.

Examination showed the scrotum to be filled with a large mass, the testicle being crowded into a small space at its upper part. This mass was solid, yet soft and not tender. Obscure fluctuation was noticed, but no fluid was obtained upon explorative puncture. The patient's general appearance excluded all idea of malignancy. The scrotal integument moved with perfect freedom over the tumor.

On October 4 the patient was operated on. A free incision through the tunica vaginalis revealed a mass of densely packed fat which was slightly adherent, but was turned out without difficulty. On separating the lobular masses by the fingers, the right testicle was found not merely imbedded in its upper part, but incorporated by apparently intimate tissue connection. It was supplied with blood both from the testis and from the cord. The cord seemed to pass for a distance of two inches through the mass before reaching the testicle. No evidence of pus or present hernia could be found, the ring and canal being no larger than on the opposite side. Finding the fibrous trabecula and blood-vessels radiating from the testicle to the fatty mass so numerous and distinct, it was decided to remove the whole en masse, which was done. The patient recovered without in-After removal the mass weighed three pounds. It was not possible to decide the exact origin of the fatty growth, whether it had started from the cord or from the testicle.

The literature of this subject is very meagre, the author being able to find but three similar cases on record. Kimball (Boston Med. and Surg. Journal) and Jobert (Gaz. Med. de Paris, 1850) report authentic cases. Deguise also reports a case (Ann. de la Soc. de Chir. ix) in which the tumor was as large Dr. Sinkler, aged 48 years. She was admitted to the as an adult head, and had been growing for twelve Woman's Hospital April 1, 1886. She had had seyears. Numerous authors state that lipoma of the vere attacks of nervous trouble in early childhood,

with its pathological interest and the obscurity which attends the diagnosis, was the author's reason for presenting the case to the Association.

Dr. Park also read a paper entitled

NEPHRECTOMY ON A PATIENT TWENTY-THREE MONTHS OLD.

B. B., born October 4, 1883, appeared at birth to be perfectly healthy. During the following winter the nurse noticed an enlargement in the right side of the abdomen, and the attention of the attending physician was called to it.

July 31, 1885, the attention of the writer was called to the child, who appeared to be perfectly healthy. There was a history of steady enlargement of the growth. The bladder was examined with the sound, but no evidence of calculus was found. The urine contained numerous crystals of triple phosphates, otherwise normal. Examination of the abdomen revealed a firm resisting tumor about the size and shape of the feetal head at term, occupying the right half of the abdominal cavity. A portion of the fluid was removed and examined, with negative results. The diagnosis was fibro-cystic tumor of the right kidney, probably of congenital origin. Five weeks later the tumor was found to have increased decidedly in size, and operation was decided upon.

The operation was performed September 15, 1885. An incision was made in the right semi-lunaris; slight adhesions were found. The peritoneum covering the growth was incised and the tumor shelled out without much difficulty. The pedicle was tied and dropped into the abdominal cavity. On the twelfth day the patient was removed to his home, and now, seven months after operation, is perfectly well. The tumor proved to be a fibro-cystic tumor of the right kidney, the cystic element predominating. diately after removal it weighed four pounds.

In searching the literature of this subject, the writer had been able to find but three cases in which the age of the patient approximated that of the one now reported. These cases were respectively, one, 21/4 years, recovered; one, 21/2 years, died; and one at 11 months, died. The case reported therefore appears to be the youngest who has survived nephrectomy, he being 23 months old at the time of operation. The abdominal incision in this case was made not from choice but from necessity, the tumor being altogether too large for extraction through a small opening in the lumbar region.

DR. W. W. KEEN, of Philadelphia, then read a paper on

### STRETCHING OF THE FACIAL NERVE,

He first related a recent case in which he had done the operation, and added a table of the twenty-one cases so far reported.

His own case was that of a woman, sent to him by

and had twice been paralyzed. Five years ago co- trol being obtained to some extent, and he suggested began to twitch, and in six months the whole face nerve be tried as a therapeutic operation. and the platysma were incessantly in spasm, which was increased by mental or muscular effort, such as speaking or being spoken to. Later this was accompanied with constant pain.

and leg.

by an incision behind the right ear, displacing the neum to heal by granulation. External urethrotomy parotid gland forwards and getting access to the is called for only under special circumstances. It nerve just after its exit from the stylo-mastoid forainto the parotid was quickly discovered by a very weak current of electricity, one electrode being placed on the cheek and the other consisting simply of the sary are: wire being touched at successive points from above pounds, just short of lifting the entire head. Total tation or internal urethrotomy are not available. facial palsy followed, with relief not only from the spasms in the face and neck, but also of that in the and an abscess has formed. Under such circumside and leg. The wound healed in four days, when stances it is necessary to open the abscess and it may the sutures were removed, the highest temperature be well to carry the incision further and lay the having been 100.4°. The operation was done twenty-five days ago, and so far there has been no return

Dr. G. B. Massey had examined the case electrically and found the reactions of degeneration. The later history of the case will be reported at a subse-

quent meeting.

Next a table of the other twenty cases so far reported since Baum, in 1876, first stretched the facial nerve, was given, with remarks upon the operation. vere the nerve has been stretched, and while the urethrotomy is often of little or no benefit. spasms often return, they are lessened in severity. In fourteen of the cases the spasms recurred within a week in three cases. In five others, absolute relief extended over three weeks to five months, the imthe remaining six cases the relief extended from four scrotum and groin. months to a year, with improvement still existing in three of them. As a palliative operation, therefore, nald Harrison recommends combined external and it would seem to be indicated; while of the five internal urethrotomy with the introduction of a large cases reported "cured," two had continued three tube. months, three had remained well for from two and a too recently reported to give the final results.

The speaker preferred Baum's method of operating decidedly to Heuter's, in which the nerve is cred. reached through the parotid gland. He bandages nerve-stretching, both electrical and voluntary con- anæsthetic is administered; a tube, open at both

incident with menstrual disturbance her right eyelid that in persistent facial palsy, stretching of the facial

Dr. C. H. Mastin, of Mobile, read a paper on SUBCUTANEOUS DIVISION OF URETHRAL STRICTURE.

The history of the operation for external urethrot-In June, 1884, the right infra orbital had been re- omy was first considered, and next was described the sected with partial relief for only six weeks. Not various methods which have been proposed for its long after the twitching extended to the right side performance. The objections to these were then gone into at length. The main objection to most of April 2 Dr. Keen cut down on the seventh nerve them is that they leave an open wound in the perihas been laid down as a rule that where water can Imbedded in connective tissue, it required escape through a stricture, the surgeon should always considerable search and dissection to lay bare the by patience, be able to get an instrument through the nerve in this case. The exact point of its entrance stricture. The speaker thought that there were exceptions to this rule.

The indications which render the operation neces-

i. The impossibility of passing a sound into the downwards. The trunk was then laid bare and bladder through the urethral canal, where a firm orstretched, the force being estimated at four or five ganic stricture blocks up the urethra and where dila-

2. In cases where a tight stricture has ruptured,

stricture open.

3. Certain cases of old tight stricture complicated of the spasms and the patient was delighted with the with urethral fistulæ, through which urine is passed the result, the palsy being a grateful relief from the in the act of urination. In almost all these cases, however, as soon as the lumen of the tube is restored, the fistulas heal. The writer prefers internal section in such cases.

4. A most important indication which may arise is rupture of the urethra by a blow, the effects of

which are violent and severe.

5. Traumatic stricture, that is where the stricture is the result of direct injury to the urethra. In these The paralysis always disappears no matter how secases ordinary dilatation is inefficient and internal

6. A calculus impacted behind a stricture may be

an indication for external section.

7. When extravasation of urine has occurred from sudden rupture of the urethra, and which is followed provement in four of them lasting much longer. In in a short time by extensive sloughing of the penis,

8. The last indication is one in which Mr. Regi-

Having decided that external section is required, half to five years. Two of the twenty-one cases were the question is, which operation gives the best prospects of success and is most readily performed. The claims of the operations proposed were then consid-

The author next described the operation which he the lower jaw and gives fluid food for three or four had employed with entire satisfaction since 1808. days in order to keep the parts quiet while healing. The incision is a very small one, made anterior to He called attention to two cases in which a palsy the stricture. The patient, being properly prepared, existing prior to the operation was benefited by the is put in the ordinary position for cystotomy. An

ends is then passed down to the stricture; this protects the walls of the urethra and puts on the stretch the By-Laws, providing for the appointment of a comthe face of the stricture. The tube is filled with mittee, of which the President shall be chairman, to small whalebone probes, and one after another is tried have charge of the preparation of the scientific work with the hope that one will enter the stricture. This of each session. Laid over until the next meeting. being accomplished, the tube and probes are remov-The probe engaged in the stricture is then tee on the proposition looking to the formation of pushed forward and a Wheelhaus sound carried down to the stricture; an incision one-half inch in length is then made in the anterior wall of the urethra on the groove of the sound; the sound is withdrawn a Thompson, J. Ewing Mears, and N. Senn. short distance and the whalebone bougie sought for as it passes through the stricture and drawn out of the original wound. Over the probe a gorget is passed, having its blade upwards; this is passed downwards, cutting the stricture on its superior face; a catheter is then passed along the entire urethra into the bladder and the urine evacuated. The stricture is then examined, to determine whether or not any points of narrowing still remain. If they are, they are divided.

If, in the first instance, it is found impossible to pass the whalebone bougie, a staff with a deep groove L. McLane Tiffany, R. A. Kinloch, and Moses is passed to the stricture, and a small opening made; Gunn. a whalebone bougie is then passed through the stricture, and the operation is complete, as in the previous After operation, a full-sized ordinary soft catheter is introduced to the prostratic portion of the urethra, but not into the bladder; the patient is put to bed, on the left side, and directed to push the catheter into the bladder when the desire to urinate is felt, and to withdraw it beyond the neck of the bladder, but not through the stricture after the urine has been passed. This is used only for the first twentyfour or thirty-six hours, to protect the wound from the contact of the urine. The speaker was opposed, on general principles, to allow a catheter to remain in the bladder; at the end of the time mentioned, the catheter is dispensed with. Immediately after the stricture has been incised and the calibre of the urethra restored, the external wound is closed with three fine pins passing sufficiently deep to grasp the walls of the urethra; these are removed in from four to six days. In the course of eight or ten days the patient is able to return to his work. The maximum calibre of the urethra is restored by the use of graduated sounds.

The advantages of this operation are: the short time of confinement for the patient; the freedom from hemorrhage: the quick union by primary adhesion; and the small amount of cicatricial tissue left.

Dr. Dunott's experience in dealing with so-called impermeable or impassable stricture has not been absorbs a great number of bacteria from the air, and small; he had been able to deal with them even when that these may gain entrance into the circulation there was great induration, almost without exception, through the digestive tract as well as through the by the ordinary internal prethrotomy operation. In respiratory tract. He said there is no doubt of the fifty or sixty cases seen within the last twelve years, possibility of malarial germs being introduced into he had been compelled in but one or two instances the system by means of drinking water. to perform external section. He thought the main reason that external urethrotomy is so frequently tually demonstrated that the bacillus tuberculosis necessary is absence of patience on the part of the finds its way through our sewers into the lake and surgeon. It seemed to him almost without exception drinking water. We are not justified in saying that that where one drop of urine will pass through the urethra, a guide can be gotten in, provided the surgeon has the patience to wait for it.

Dr. J. Ewing Mears offered an amendment to

THE PRESIDENT announced the following commit-

A CONGRESS OF AMERICAN PHYSICIANS AND SUR-

Drs. C. H. Mastin, Charles T. Parkes, J. Ford The following were elected

OFFICERS FOR THE ENSUING YEAR:

President - Hunter McGuire, M.D., Richmond, Virginia.

Vice-Presidents - T. F. Prewitt, M.D., St. Louis, and J. W. Gouley, New York.

Secretary - J. R. Weist, M.D., Richmond, Ind. Recorder - J. Ewing Mears, M.D., Philadelphia. Treasurer - P. S. Conner, M.D., Cincinnati.

Council - Drs. Hunter McGuire, John S. Billings,

The following were elected

HONORARY MEMBERS:

Foreign - Sir William MacCormac; American-Prof. Henry J. Bigelow.

Active Members Elected - Drs. H. H. Mudd, St. Louis, and Joseph Ransohoff, Cincinnati.

Time and Place of Next Meeting - The second Wednesday in May, 1887, at Washington.

#### CHICAGO MEDICAL SOCIETY.

Stated Meeting, May 3, 1886.

THE PRESIDENT, E. J. DOERING, M.D., IN THE CHAIR.

Dr. M. P. Kossakowski exhibited a case of

DOUBLE HARE-LIP AND CLEFT PALATE IN AN INFANT. He promised a subsequent report of the case. Dr. H. Gradle read a paper on

PURE DRINKING WATER.

(See page 544.)

Dr. Long asked if it is demonstrated whether the bacteria in our dringing water comes from the sew-

erage or from the air.

DR. L. CURTIS said there is no doubt that water

DR. R. TILLEY wished to know if it has been ac-

the Waukesha waters and found bacteria in them.

large bodies of water by means of dust, vegetation, galvanic electricity. and decayed leaves, and there is no reason to believe that the bacteria found in our water is derived from the sewerage alone. A Russian chemist had DOMESTIC CORRESPONDENCE examined the water found at St. Petersburg, and found that at a distance from the city the number of bacteria per cubic centimetre was considerably less than near the city. Dr. Gradle has examined water obtained from Lake Michigan about thirty-five miles of bacteria per cubic centimetre, but a less number of varieties than in city water. He believed the Closure of Cystic Duct. spores of typhoid and tuberculosis may find entrance teria they contain cannot be due to sewerage.

Dr. W. H. Lyford read a report of a case of

#### SCLERODERMA.

shock from a lightning stroke. Shortly afterwards was no pain whatever about the foot. her parents noticed, under the surface of the skin the forearm.

grow together. The cases of partial scleroderma he ted, and a long Liston splint, reaching from the toes

Dr. J. Zeisler asked if Dr. Gradle had examined had seen in this city. In one patient the patch of scleroderma was a ribbon-like band behind one ear, Dr. Gradle closed the discussion by saying he pinkish in color, immovable upon the underlying took pains not to state in his paper whether he tissues. The other case was a lady act. 50 years, thought the disease germs found in the water were who noticed her right mammary gland was becoming introduced by means of the sewerage or air. It is hard, large, and the nipple contracted. There was not a vital point so far as the use of the water is con-cerned, although if it is decided that these bacteria volved. The skin was hard and adherent to underare introduced by means of the sewerage and not lying tissue. A similar condition was observed in a the atmosphere, it would have a bearing on the quest patch of skin on the right arm. Kaposi states the tion of where to dispose of our sewerage. However, majority of cases of scleroderma occur in females. there is no doubt but bacteria are introduced into. The best treatment for scleroderma is massage and

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Cuneiform Osteotomy for Congenital Talipes Equifrom Chicago and had found about the same number nus-Compound Comminuted Fracture of the Femur · Cholecystotomy for Abscess of Gall-bladder and

At the last meeting of the New York Surgical Sointo our lake water and become causes of disease in ciety the proceedings were of unusual interest and individuals who are not prepared to resist their at-variety of scope. Dr. Charles T. Poore presented a tack. Dr. Gradle had never examined the Wauke-patient, the subject of congenital talipes equinus, on sha waters, but he had examined water from a spring whom he had performed cuneiform osteotomy with on his own farm, which he believed to be as pure as the most successful results. The operation, which Waukesha water, and had found only fifteen to twenty consisted of the removal of a V-shaped piece from bacteria per drop, and only three varieties. He be- the outer aspect of the foot, as advocated by Davy lieved that spring waters are the purest, as the bac- and others, was not performed until after the failure of all attempts to change the position of the anterior portion of the foot, including the use on several occasions of Bradford's instrument for forcibly rectifying this deformity. The patient was observed to walk A girl, act. 10 years, apparently healthy and of with but a slight limp, and Dr. Poore stated that he good family history. Five years ago she received a was regaining motion in the ankle joint, while there

Dr. George A. Peters then presented a patient, a over the outer region of the left forearm, a delicately lad of 16, whom he had treated at St. Luke's Hospitraced symmetrical figure, branching and ramifying tal for compound comminuted fracture of the femur. in purplish colored lines with singular regularity. Dr. The injury was caused by being kicked and trampled Lyford believed the lightning had paralyzed the culupon by a horse, and about four and a half hours taneous branches of the musculo-spiral nerve, and after it was received Dr. Peters operated as follows: caused congestion of these filaments, with the marking as a result. In due course of time the skin has rendered aseptic. An incision two and a half inches undergone the changes that take place in scleroder- long was made on the external opening down to the There is hyperæsthesia accompanied by pain, bone. A large piece of the anterior surface of the especially at night. The patch is also now slightly shaft of the femur was then found to be chipped off; elevated above the surrounding healthy integument, though attached at its lower end by the periosteum. and is only slightly movable, while at the elbow it is This was removed, and found to measure six inches attached to the fascia and sheaths on the tendons, in length, by one inch in width. Another small loose thus interfering somewhat with the movements of piece was also found and removed. The two beveled surfaces of the femur were then united by two silver Dr. J. Zeisler said he had seen four cases of scleroderma, two of general scleroderma and two of ends left projecting from the external wound. A partial scleroderma. The first two cases he saw in a clinic of Kaposi. Their appearance was striking. In scleroderma the features of the face are immobile, and therefore the patient cannot express the sisting of iodoform gauze, bichloride gauze, and a emotions. The skin and underlying tissues seem to Lister bandage, applied. The foot was slightly ever-

to the thorax, bandaged on. Finally, Buck's extenthe patient placed in Ludlow's modification of Crospreparation, on May 18, 1885. After the patient had one inch of shortening. The good result in this case, dominal cavity was opened the cyst, white in color, Dr. Peters thought, was largely due to the fracture was brought into view, and a steel sound, first dipped bed referred to, which is much used in St. Luke's.

Hutchinson, of Brooklyn, and was entitled: A Case adhesions. With a large trocar one pint of laudable of Closure of the Orifice of the Cystic Duct by a Gall pus was then withdrawn from the sac, and microscopic Stone; Abscess of the Gall-bladder; Cholecystotomy; examination subsequently showed that there were no Recovery. This was a very obscure case, and the cholesterine crystals, or other elements to indicate diagnosis was not positively determined until lapar- that the fluid came from the gall-bladder. otomy was resorted to. The history of the patient,

Bristow, of Brooklyn, was as follows:

microscopic examination of the urine showed that it per cent, solution of carbolic acid. was normal in all respects; and she did not have rigors or fever.

ary, 1885. It then extended from a line on or level the latter was entirely closed. After the operation with the umbilicus, and an inch to the left of it, across the temperature once reached 101°, but it was to the right lumbar region, and downwards to within promptly reduced to 90° by the application of the two inches of Poupart's ligament. It was irregularly abdominal rubber coil. The patient was allowed to rounded, fluctuated distinctly, was movable from side get up on the twenty-first day. Microscopic examto side, and was painless. There was no dulness be- ination of the calculi removed showed them to be tween the tumor and the liver. The uterus was nor- largely composed of cholesterine. mal in size.

sion, with a weight of five pounds, was ordered, and she was operated on, after an appropriate course of by's tracture-bed. More than seven months after-been placed under ether, Dr. Hutchinson made anwards a piece of the lower fragment of bone, measuring other careful examination of the tumor, and a questwo and a half inches by seven-eighths of an inch, was tion then arose as to the correctness of the diagnosis removed from the sinus left, and it was found to con- made. Under the circumstances, therefore, he made tain two of the drill-holes made by Dr. Peters. The an exploratory incision through the linea alba, beginpatient was discharged, after remaining in the hospining one inch below the umbilicus, and extending tal for eight months, with good union and only about it downward two and a half inches. When the abin hot water, was passed in, and swept around the The paper of the evening was by Dr. Joseph C. tumor, with the result of proving that there were no

The cyst was seized with forceps and drawn up whom Dr. Hntchinson saw in consultation with Dr. into the wound, in order to prevent its contents from escaping into the abdominal cavity. In manipulating Mrs. S., a widow, about 40 years of age, about the sac Dr. Hutchinson discovered that it contained twelve years before coming under his observation, a rounded solid body which, on being removed by the began to have paroxysms of severe pain in the "pit finger, after the opening made by the trocar had been of her stomach, running through to the back," comenlarged, proved to be a gall-stone. On further exing on suddenly, and lasting usually about twenty ploration, another was found, pointed on one side; minutes, but occasionally for an hour. There was the point fitting into the orifice of the cystic duct, sometimes an interval of a year or more between the completely occluding it. This condition, he said, paroxysms; then, again, they would come every day, explained the absence of jaundice, of clay-colored and even several times a day. As a rule, she said, stools, and of bile-pigment in the urine. An effort the paroxysms were more frequent when she was in was made to explore the cystic duct with a probe; ill health or became wearied by any unusual exertion. but its orifice could not be discovered. Two fingers They were not attended by nausea and vomiting or were then carried along the collapsed gall-bladder to febrile disturbance, and were not followed by jaun- the under surface of the liver, to ascertain, if possidice. In July; 1884, when she first came under Dr. ble, whether the ducts were free from calculi or other Bristow's care, a tumor about the size of a man's fist obstructions; but none could be found. The sac was discovered in the right side of the abdomen, below the level of the umbilicus. Pressure upon it produced a sense of oppression and shortness of bereath, but no pain was developed. There was, most better that the produced is the opening into it were stitched with five interrupted silk sutures to the upper end of the wound in the breath, but no pain was developed. There was, most below the time, a dull aching sensation in the region of bladder quite free. The edges of the peritoneum the tumor, and to get relief the patient would invol- were closed by a continuous catgut suture, and the untarily apply the hand and move the tumor to one remainder of the abdominal tissues by interrupted side or the other, which she could do for about two silk sntures, carbolized, carried down to the perineum, inches. At that time she had been free from the but not through it. The walls of the gall-bladder paroxysmal attacks of pain for about two years. She were one-fourth of an inch thick. A glass drainagewas anaemic, and complained of exhaustion; but was tube was introduced into the gall-bladder, and the able to attend to her household duties. The bowels wound was dressed with oiled lint, sprinkled with moved regularly, and the fæces were normal in color iodoform, and covered with marine lint and a bandand consistency. There was no suspicion of hepatic age. The gall-bladder was irrigated daily for four or disease. She had never had jaundice; chemical and five days, through the drainage-tube, with a one half

Bile began to flow from the drainage tube on the second day after the operation, and it continued to Dr. Hutchinson first examined the tumor in Janu-flow from the fistulous opening for six weeks, when

In some concluding remarks, Dr. Hutchison said

that an interesting feature of the case was the uncer- attendance was larger than that for many years. One calling attention to the gall bladder. The symptoms There was a marked increase in the number of volunhad been confined to paroxysmal pains in the epigas- tary papers. tric or hepatic regions for nearly three years; while been found in the fluid thus removed, which, as was and William M. Lawlor. shown at the time of the operation, would have consisted of pure pus. Acupuncture might have aided commencing on the third Wednesday in April, 1887. in the diagnosis; but in so large a collection of pus, it was not probable that the needle would have found the calculi.

Although cholescystotomy was unpremeditated in this case, Dr. Hutchison said that he would, in a similar operation, with the experience which this one had furnished, pursue the same plan. The incision in the usual incision along the margin of the ribs, and experience has shown that an enlarged gall-bladder can the abdominal walls, and establishing a biliary fistula ton Hall. should, he thought, be preferred to sewing it up and found at once, they may be searched for subsequent. 5:40 P.M., and 6:30 A.M. ly, or be spontaneously discharged through the fistulous opening, which usually heals in a few weeks, tions.

these cases. P. B. P.

## MISCELLANEOUS.

Palatka, Putman Co., on Tuesday, May 18.

MEDICAL SOCIETY OF THE STATE OF CALIFORNIA. Francisco on the 21st, 22nd, and 23rd of April. The still in good health. In conclusion, the author lodges

tainty of the diagnosis and the absence of symptoms hundred and forty-five new members were admitted.

The following officers were elected for the ensuing the pain which the patient had in the early history of year: President, W. S. Thorne; First Vice-President, the case, referred to the pit of the stomach and R. H. Plummer; Second Vice-President, W. F. Mcextending to the back, although irregularly paroxys- Nutt; Third Vice-President, A. G. Anthony; Fifth mal was unattended by nausea and vomiting, and Vice President, W. R. Cluness; Treasurer, G. C. mal was unattended by nausea and vomiting, and was not followed by jaundice or clay-colored stools, Simmons; Secretary, W. A. Briggs; Assistant Secresymptoms which were considered almost pathognomonic of the passage of billary calculi. Aspiration, instead of throwing any light on the case, would have made the nature of the tumor still more uncertain, because none of the elements of bile would have

The next session will be held in San Francisco,

ILLINOIS STATE MEDICAL SOCIETY.-The annual meeting of the Illinois State Medical Society will be held in Washington Hall, Bloomington, on May 18, 19 and 20, beginning at 11 A.M., on Tuesday, May 18.

The Railway fare for delegates and members from Chicago is \$5.00 for the round-trip. Delegates from linea alba is attended by less hemorrhage than the other States will pay full fare coming and one cent a mile returning.

Arrangements have been made for commutation be reached quite as readily by one incision as the fare at the Ashley House, Phœnix Hotel and Hotel other. Suturing the opening in the gall-bladder to Roberts, each within one or two squares of Washing-

Trains leave Chicago as follows: Illinois Central leaving it in the abdominal cavity,—first, because 2:50 P.M., arriving in Bloomington 9 P.M. Chicago there would be less danger of the escape of bile into and Alton, 8:45 A.M., 12:30 P.M., and 11:20 P.M., the perineal cavity, and, second, if the cavity cannot be (with sleeper) arriving at Bloomington at 1:40 and

HYDROPHOBIA IN RUSSIA .- In the Russkaia Med-Dr. Hutchison last saw the patient January 25, 1886, itzina, No. 8, 1886, p. 141, Dr. A. Bürtzeff, of Totma, when she felt well, and was greatly improved in Valogda Government, writes that, on November 22, appearance. This case afforded another illustration 1885, seven adult men were bitten by a rabid wolf, of the difficulty in always positively diagnosticating which rapidly visited different parts of the town, and abdominal tumors, and of the importance of being then escaped. All the patients were immediately prepared, before operating, for unexpected condi- attended to at the local hospital, their wounds being washed out with a strong solution of carbolic acid, Dr. T. M. Markoe, remarked that he now had a energetically cauterized with caustic potash in subcase which he was carefully watching with a view to stance; in addition, ligatures, lotion of caustic potash, operating It was quite different from Dr. Hutchi- and chloral hydrate in scruple-doses internally were son's, however, in the fact that the distended gall-used. In three of the patients, hydrophobia appeared bladder could be made out very clearly. He thought on the thirty-fourth, thirty-sixth, and thirty-eighth jaundice was rather the exception than the rule in days; the cases ending fatally in thirty-seven and a half, seventy-one, and sixty-five hours. Subcutaneous injection of curare did not give the slightest relief to any of the patients. According to Dr. Bürtzeff, the symptoms and course of the disease closely tallied with those described by Dr. Bristow; that is, there were present intense pain in the wounds; general The Florida Medical Association will meet in hyperesthesia; violent dyspnæa of the muscles of deglutition and respiration; thirst, with inability of swallowing either solids or fluids; affective insanity etc. In two of the patients, a tendency to bite every--The sixteenth annual session of the Medical So-body, and to gnaw everything within their reach, was ciety of the State of California, was held in San observed. The remaining four patients bitten are

about the town, no measures to prevent this being even if it be true that he who drinks beer thinks beer taken by the authorities. Probably, the latter will Still, our somewhat mercurial cousins may be none be aroused when a sagacious wolf bites or devours the worse for the infusion of a little Teutonic solidity. one of their number. Till then, the wolves will remain unmolested, and privileged in their possession all—that of Adam.—Brit. Med. Jour., May 1, 1886. of freedom. - British Medical Journal, April 24, 1886.

Dr. Edward F. Wells, formerly of Minster, Ohio, has accepted the Chair of Materia Medica, Pharmacology and Clinical Medicine in the College of Physicians and Surgeons of this City, and has removed from Minster to 148 Dearborn Ave., Chicago.

THE PASTEUR COMMISSION, - The Commission of Inquiry into the system carried out by M. Pasteur to prevent the development of hydrophobia, which has been appointed by the British Government, has now commenced its investigation. The Commission consists of Sir H. Roscoe, M.P., who moved for the appointment of the Commission in the House of Commons, Sir James Paget, F.R.S., Dr. Burden Sanderson, F.R.S., Dr. Quain, F.R.S., Principal Veterinary Surgeon G. Fleming, of the Army Veterinary Department, Dr. Lauder Brunton, and Mr. Victor Horsley, F.R.C.S., of the Brown Institute, the latter acting as Secretary to the Commission. Sir H. Roscoe, Drs. Brunton and Sanderson, and Mr. Horsley are now in Paris, and before long the public may look forward to the issue of a report which will enable them to appreciate the value which properly attaches to the processes adopted by M. Pasteur. The composition of the Commission renders it quite unnecessary to indicate the nature of the evidence which should be sought for; but we may say that, so far, no reports which have come under our notice have given sufficient evidence that their compilers have eliminated the many sources of error which have to be dealt with before any trustworthy opinion can be expressed as to the methods carried out in Paris .- Lancet, May 1, 1886.

THE PROGRESS OF BEER-DRINKING IN AMERICA. -Beer, it would seem, is rapidly replacing the fantastic "drinks" for which the United States have earned a reputation, and is in a fair way to become the national beverage. The quantity of beer now consumed is, in proportion to the population, eleven times as great as it was forty years ago. Some, perhaps not altogether disinterested, persons appear anxious to get up a scare about beer; and are endeavoring to prove that it is a beverage peculiarly dangerous to health, causing degeneration of the heart, the liver, and the kidneys. The evidence, however, in support of this charge is not overwhelming; it is said, for instance, that the hearts of the men of Munich are larger than those of other people, and more ready to undergo fatty degeneration; and that the number of people who die of Bright's disease, in New York, has increased since beer became April 24, 1886. Assigned to temporary duty at Norfolk, a negular heyerage. Evil tales are told of its adul a popular beverage. Evil tales are told of its adul teration, but they have not found much confirmation in the analyses made for the State Board of Health; and there is reason to fear that even whisky is some"thrombolic" read "thrombotic"

a complaint against the freedom with which wolves, times tampered with. On the whole, this change in rabid and healthy alike, are allowed to run and ramble the drinking habits is a matter for congratulation; There is, however, one kind of ale which is best of

> AMERICAN MEDICAL ASSOCIATION.—The Thirtyeighth Annual Meeting of the American Medical Association will be held in Chicago, commencing on the first Tuesday in June, 1887, under the Presidency of Dr. E. H. Gregory, of St. Louis. Much of the success of the St. Louis meeting is due to the efficient work of Dr. LeGrand Attwood, Chairman of the Committee of Arrangements. The Chairman of this Committee for 1887 is Dr. Chas. Gilman Smith, and it may be predicted that he will prove a most fitting successor to Dr. Attwood.

> The social features of the St. Louis meeting were of the most brilliant description. With a musical entertainment at the Exposition Building on Tuesday evening, a grand reception at the Merchants' Exchange on Wednesday, six receptions at private houses on Thursday evening, and an excursion on the "Chouteau," one of the largest steamers on the Mississippi, on Friday afternoon, the members and delegates actually labored under embarrassment of social riches. The St. Louis meeting will long be remembered as one of the most pleasant in the history of the Association.

> Spanish Rags.—The prohibition of the importation into England of rags from Spain has been extended for a period of four months from May 1.

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTTES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM MAY 1, 1886, TO MAY 7, 1886.

Major Francis L. Town, Surgeon, granted leave of absence for eight months, with permission to go beyond sea, to take effect when his services can be spared by his department commander.

when his services can be spared by his department commander. (S. O. 101, A. G. O., April 30, 1886.)
Capt. Wm. J. Wilson, Asst. Surgeon, died May 2, 1886, at Plattsburg Bks., N. Y.
First Lieut. Geo. F. Wilson, Asst. Surgeon, ordered for duty at Ft. Shaw, M.T. (S. O. 37, Dept. Dakota, April 26, 1886. First Lieut. A. S. Polhemus, Asst. Surgeon, relieved from duty at Presidio of San Francisco, Cal., and ordered for duty as Post Surgeon, Ft. Halleck, Nev. (S. O. 28, Dept. Cal., April 26, 1886.) April 26, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING MAY 8, 1886.

Kite, Isaac, Assistant Surgeon, ordered to Naval Hospital, Brooklyn.

Simon, W. J., P. A. Surgeon, ordered for temporary duty to

the Naval Academy, Annapolis. Lippincott, Geo. C., P. A. Surgeon, ordered for temporary duty to the Naval Academy, Annapolis.

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U. S. MARINE HOS-PITAL SERVICE FOR THE WEEK ENDED MAY 1, 1886.

#### CORRIGENDUM.

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## THE ADDRESS IN OBSTETRICS.

## HYSTERIA AND ITS RELATION TO DISEASES OF THE UTERINE APPENDAGES.

Delivered at the Thirty-Seventh Annual Meeting of the American Medical Association on Tuesday, May 5, 1886,

BY S. C. GORDON, M.D.,

OF FORTLAND, ME.

CHAIRMAN OF SECTION OF OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN.

MR. PRESIDENT AND FELLOWS OF THE AMERICAN MEDICAL ASSOCIATION:—The year that has just passed has given no remarkable discoveries either in to comply with the rule requiring the chairman of each Section to present a résume of new things in his department, I can only emphasize some of the matters that have been alluded to, perhaps in some former addresses, and weigh the experiences of individual members of the profession on some of the topics that have been more or less discussed. Time, which alone can give experience, makes sad havoc with many of our pet theories, however plausible they may seem when first advanced. We are constantly exploding some of the well accepted doctrines of the old teachers in every department of medicine, and in none more than in these two branches of the science. A familiar example of this occurred at the last meeting of this Association. I think no one theory held stronger place among us than that an accoucheur, atter exposure to septic influences, should for a long time refrain from attendance upon new cases. A neglect of this rule was generally deemed in the most severe and summary manner.

The carefully prepared and exhaustive paper of cautions within the reach of every practitioner. Time In my opinion we will find much benefit from a lib-

alone may not be sufficient-in fact, may be no element of safety, if all the other elements are omitted. If the seed sown by that one paper has been properly cultivated and has borne the same kind of fruit, the harvest within the year just past must be abundant.

I will not attempt to review the literature of obstetrics for the past year, so far as relates to new discoveries, or new methods of treatment of the parturient woman, but simply allude to some of the practical points which have been more or less sub judice for many years. Among the many of these questions, the early signs of pregnancy may be mentioned. I have several times within the past year applied the test recommended by Hegar and alluded to in several journals, viz.: the increase in the anterior curvature of the uterus, with increased elasticity of the walls. I think it a valuable sign and one that is apparent early. For obstinate vomiting of pregobstetrics or gynecology, and therefore in attempting nancy, I believe no one measure has been found of such value as forcible dilatation of the cervical canal below the internal os, and lifting the uterus out of the pelvis and supporting by cotton packs or some form of pessary. The cases requiring the induction of abortion for this very distressing symptom will, I think, be very few if these measures are faithfully and carefully carried out. The induction of premature labor for deformity of pelvis or disproportionate head, as found by former pregnancies, is, I believe, fast finding favor with accoucheurs. From my own experience (very limited) I prefer the employment of the bougie, retained until labor begins, although some practitioners whose opinion I value, prefer the rapid manual dilatation. Where we fear a disproportionate head, I think the eighth month the best time for it, when a tolerable degree of certainty exists as to the period of conception.

The post-parturient management of the woman I think deserves much more consideration than it has criminal, and the penalty was visited upon the victim formerly received. I am sure that until within a comparatively short period authorities have been disposed to teach a much more rigid system of dietetics Dr. George F. French, who collected opinions from for the woman who has just passed through her labor the ablest men in the profession, from this country than the absolute necessities of the case require. I and Europe, together with his own critical experi-believe the "poor sloppy diet" of the lying-in room ments, shows us that by proper measures and strict, absolute cleanliness, we can safely continue the daily routine of obstetrical work, with no months of delay, whose period of gestation has compelled her to forego or anxiety as to the results of such continuance. The all the pleasures of the table finds the demands of criminality now lies in the neglect of the proper pre-nature such that the most nutritious food is desired.

eral construction of the rule that nature does not was required, and demonstrated by the operation a make mistakes often.

A word or two in regard to ameliorating the sufferings and shortening the process of labor. It seems that an unnecessary amount of suffering, both in de- the indications for this surgical interference, some many of the injuries formerly incident to the partu-rient process. I believe that vesico-vaginal fistulæ are becoming less frequent under the more careful HVSTERIA AND ITS RELATION TO DISEASES OF THE and judicious use of the obstetric forceps, by means of which a long and tedious labor has been shortened, the vagina that would otherwise have lost vitality and sloughed.

The treatment of the placenta, both at normal labor and at abortion, has been the cause of much discussion for the past few years. The views of Pajot, recently published, are so nearly in accord with my own experience and practice, that I cannot forbear gentle traction upon the cord, with the left hand, while the right index finger passed up along the cord less evil results follow.

(now so prevalent), is by no means the safer practice. Remove them if it can be done without much trouble, suffering.

moted much discussion during the past year, viz.: limited, but the probable is almost indefinite. Hegar's operation.

little in comparison with another who has believed it the antidote to pain, that quinia is antipyretic and

well-marked pathological condition, and cured his patient, who has suffered for years.

The profession has differed very widely as regards gree and duration, attends the "normal labor" (so claiming that only by a "demonstration by touch" called) among the large majority of American women which shall determine absolute organic changes in that they do not, as a rule, bear children so easily the ovaries and tubes, should a diagnosis of disease as the women of the British Isles. I am very well be made. On the other hand, others become satisconvinced—not only from statistics, but from the fied of the existence of structural changes by certain general sentiment so prevalent among British practi- manifestations, which we term functional disturbtioners, that a forceps delivery is rarely required, ances, and are commonly called by the terms reflex While it is not pertinent on this occasion to elaborate and hysterical. That a large class of cases exist in this very much-statistics being accessible and more every community, that have been invalids for years, or less familiar to all of you-I cannot but believe and have defied all methods of treatment, is a well that the use of anæsthetics and the forceps, in labor, known fact. It is largely to this class that I call your has done much to relieve the suffering and prevent attention, and shall therefore devote the remaining

# UTERINE APPENDAGES.

I suppose it is equally true of medicine as everyand the pressure has been removed from portions of thing else, that there is really "nothing new under the sun" -therefore we may as well select, as one of the topics for consideration, a well-worn subject for an essay on any medical occasion. Certainly nothing has been talked about or written upon more than hysteria. Even the laity are as familiar with the symptoms, pathology and treatment, as the (I might almost say) majority of the profession. No literaalluding to them. He believes that, as a rule, the ture of the profession in any age is complete, that full term placenta is best delivered by prompt and does not embrace more or less learned discussions upon this ever fruitful subject.

No one man from his own experience is able to intelligently regulates the amount of force necessary fully represent in language the various and ever to be used. The earlier after the delivery of the changing symptoms of this bane of the profession. child this is done, the more easily is it completed and I am well aware that in presenting this subject before you a smile of derision may almost unconsciously I believe also, with him, that the forcible removal come, and a degree of surprise be manifest at the of the secundines in abortions, at almost any cost presumption of one who would attempt to evolve anything that might be new or interesting out of such a threadbare theme. And yet, when we find one of or instrumental interference, but otherwise a careful the modern writers on nervous diseases making the tamponing and close watching will do less harm, save confession that "hysteria contributes absolutely nothmore lives and prevent a vast amount of future ing to the science of morbid anatomy," we are fully justified in advancing any theory that has a semblance In passing to the subject of gynecology I propose of reason, especially if we can present any evidence to occupy your time principally with one theme, that that in the remotest degee will appear to sustain that has engaged the attention of the profession and pro-theory. The absolute in our profession may be very the removal of the uterine appendages—familiarly sum total of medical science and knowledge rests and variously characterized as Battey's, Tait's and upon the basis of this limited absolute and indefinite probable, the former having for its foundation princi-I am sure any practical work done in this direction pally anatomy and physiology, while the latter has will be regarded as testimony before a jury of the the accumulated experiences, and observations, and profession, and a basis for making a proper decision experiments of thousands of educated students, upon the merits or demerits of the operation. The through thousands of years. To the mass of the mere dictum of any one man or set of men amounts practical minds of these students the latter is as valuto but little in our profession. Nothing is conclusive able as the former. When we find, after a series of or convincing short of absolute experiment. When experiments, that a constant result is reached by a a man, however distinguished he may be, says that continued course, we must finally admit that there is he has never seen any case where, in his opinion, the a relation of cause and effect. By countless multioperation was required, such opinion amounts to but tudes of practitioners it has been found that opium is

morbid anatomy.'

to us, not by any inductive reasoning, but by the simulated." more common mode of experiment and close obser-

the several illustrations. Sydenham thus describes the special senses. "Images are seen where there the multiform manifestations of hysteria: "A day is nothing, voices are heard where there is absolute uniform type, which is usual in other diseases, for less duration of the phenomena and less power to they are, as it were, a disorderly heap of phenomena, influence the patient's actions. there cannot be any organic lesion," etc.

Perhaps no better modern history of hysteria has the mind, sensibility, motility and visceral action, membranes.

separately or in any possible combination. Thus it is not uncommon to meet with cases in which the most surprising manifestations of hysteria, and

that chloroform is anæsthetic. These and many of the viscera may be deranged in their functions, other now well accepted facts in the profession came and thus the appearance of organic disease be

These mental symptoms are so very various that vation. Applying the latter method, together with any attempt to recite them would be a history of the what has come to us through the well known princi-ples of physiology, to the disease known as hysteria, emotional disturbances to the most violent exhibi-I believe we can at least make some little progress tions of joy or grief, entirely disproportionate to the towards "contributing something to the science of cause, to be followed, perhaps, by the utmost indifference to all surrounding influences. That the will to a At the risk of being prosaic I must briefly allude great extent loses its power, at times, no one familiar to some of the more prominent symptoms of this with these cases can for a moment doubt, although classified disease. I am quite sure I shall not chal- under the influence of some strong exciting cause, the lenge very much discussion on this point, even if I patient suddenly acquires the lost volitional power. incorporate into my description nearly every symp- Illusions and hallucinations of all kinds and degree tom of human suffering known to medical science. occur in many of these cases, and we find most strik-Their name is legion; I will use those necessary for ing illustrations of the most complete aberrations of would scarcely suffice to reckon up all the symptoms silence, odors are smelt where there is nothing to of hysterical diseases; so various are they and so smell, and strange tastes are perceived where the contrary to one another, that Proteus had no more mouth is empty." The vagaries of the intellect are shapes, nor the chameleon so great a variety of col- not less strange than of the special senses. The ors, and I think Democritus was pretty right (though perceptive faculties are often most wonderfully sharphe mistook the cause of the disease) when he wrote ened, while the reasoning powers and volubility are in an epistle to Hippocrates, that the womb was the remarkably increased. As often we find the most cause of six hundred miseries, and of innumerable brilliant intellects dulled and the conversational powcalamities. Nor are they only very various, but also ers almost entirely wanting. The principal points of irregular, that they cannot be contained under any difference between this and insanity seem to be the

so that it is very hard to write the history of the dis- In the deranged sensibility we find all degrees of ease" His only explanation of the fact that women hyperæsthesia and anæsthesia, the most common seat have the disease so much more frequently than men, being the skin, in the region of the mammary glands, is that "kindly nature has bestowed on the former a face, throat, extremities, and especially about the more delicate and fine habit of body, having designed head in the form of headache. Hammond quotes them for an easy life, and to perform the tender offices Briguet as saying that "out of 356 hysterical patients of love." His "confusion of spirits," too many of 300 were constantly subject to headache." Neuralgia them "collected in a crowd," and that the "ataxy of in all its manifestations, in all parts of the body, may the spirits has vitiated the humors," seem hardly a thus exist, without our being able to give it a defi-sufficiently lucid explanation of the etiology of the nite origin. Anæsthesia, with a corresponding loss disease, in these modern days of exacting pathology, of feeling in all these parts of the body, may exist, and yet it was nearly if not quite as satisfactory as and even the special senses be affected to the any of the many theories of our later pathologists: point of producing blindness, deafness, loss of taste "It is nothing but an attack of hysterics;" "she is and smell. I have seen some very remarkable cases only nervous;" let her alone and she will come out of blindness due to reflex disturbances of the genital of it all right;" "i sn't this hysterical largely?" " surely organs, which were at once relieved by appropriate treatment of these lesions.

Hysterical paralysis, as manifested in hemiplegia, been written than that of Hammond in his "Diseases paraplegia, or, much more limited than either, aphoniaof the Nervous System." In the first paragraph spasms, tonic and clonic, may affect almost every under the head of symptoms he says: "The phe- muscle in the body, continuing a long time, and simnomena of hysteria may be manifested as regards ulating organic lesions in muscles, joints and mucous

only evidence of the disease is seen in abnormal frequently the most persistent and distressing. Of mental action; others are characterized solely by de- all these perhaps there is no one more commonly rangements of sensibility, such as hyperesthesia or affected than the stomach. Hammond says this anæsthesia; others by aberrations of the faculty of seems to be the "favorite organ," and this is in acmotion, such as paralysis, spasms and contractions. cord with my own experience. The most obstinate Again, all these categories may be witnessed in the vomiting, persistent flatulency and all the various same person, giving rise, among other phenomena, to distressing symptoms of indigestion, characterize a coma and convulsions; and again, some one or more majority of the cases under my own observation.

system.

ceivable manner, from complete cessation of the the methods employed. menstrual flow for months at a time, alternating with the most frequent hæmorrhages, either very scanty is disfiguring and loathsome to the patient. Alterna- removing her to an insane asylum. tions of color occur, so that in a few hours we find When I saw her she could get around her room nent diagnostic feature.

would be wonderfully strange if we did not some- and easily pushed up, so I did not attach special imtimes find manifestations of disease that would very portance to the fact of displacement alone. Where

The disturbances of function of other organs, like closely correspond with one or more of the multiform the heart, lungs, intestines, kidneys (with their inor- phases of what we have just described. Hammond dinate secretion of limpid urine), the bladder with says that in "332 cases observed by him in six years, retention and incontinence of urine, the obstinate 329 were females." Now it is not the object of this constipation of the bowels, are all familiar to every paper to attempt to enter into all the causes that have practitioner. The various forms of convulsions, at-produced and may continue to produce hysteria in tended with more or less loss of consciousness, bear- the female. The causes may be as various as the ing oftentimes a strong resemblance to epilepsy or symptoms or the cases-I do not deny any cause tetanus, chorea or catalepsy, but distinguished from that may seem to be well established by any mode them by lack of consistency and constitutional dis- of reasoning, whether derived from theory or practurbance, become the most distressing to witness and tice. I simply propose to give you some instances the most exhausting in their effects upon the nervous derived from my own experience, selecting such cases, from quite a large number treated, as will illus-The functions of the uterus suffer in every contrate a variety of symptoms, and results obtained by

Case 1.-Miss B., age 37, occupation a school (lasting but a few hours), or the most alarming in teacher for many years. A woman of unusually fine quantity. The pain and general nervous symptoms, culture and strong character in all respects. Had been as a rule, are most marked previous to the flow, particular successful in her vocation. Possesing an oftentimes for many days, and these are so severe as indomitable will, she had continued in her work as to indicate with certainty the approach of the period long as possible, but for about five years previous to even if the patient had no other definite means of coming under my care, had been unable to do any knowing it. I think this an important diagnostic labor, either in teaching or otherwise. Her illness element. More rarely we find the exhaustion consedates from eleven years before. During the first few quent upon the excessive hemorrhages produces the years she suffered from impairment of menstrual well known hysterical convulsions, so familiar to function, alternating amenorrhæa and menorrhagia, every practitioner. The week preceding and followsevery practitioner. ing the flow (including it) is the time during which painfor many days. Gradually the nervous symptoms we may expect, and in fact find the most of these became more prominent, characterized by insomnia, nervous phenomena. In many cases the remainder headacles, neuralgia in spine and sides, flushing and of the month may be comparatively free from any pallor of face, the dark-red spot in the centre of each suffering whatever, especially in early life. As age cheek becoming a prominent symptom in the later advances, however, the periodical suffering leaves its years. She had consulted physicians early in her impress upon the entire system. Not infrequently we trouble, but only at rare intervals, and for five years find, as a result of the long continued nervous symp- previous to my seeing her, had been constantly under toms, marked changes in the facial expression, and a the care of the best she could obtain. Notwithdull, listless melancholy rests upon a countenance standing she continued to grow worse until she beonce bright, animated and cheerful. The skin suffers came a helpless invalid, unable to work physically or especially, in many instances. Eruptions of various mentally, or even to move about. The mind became kinds, especially acne, appear, often to a degree that disordered to the extent that her friends proposed

the most ghastly pallor, followed by a deep mahog- and out of doors by holding on to the sides of the any color, which may and in many instances does room and thus supporting herself, but her limbs seemed continue for several hours. In several cases under to have lost their use so far as supporting the body. my own observation this latter symptom has been. She slept but little, and could not restrain herself very marked, so that I now look upon it as a promifrom long attacks of crying. I think she had a strong suicidal tendency. As each menstrual period ap-But enough has been said on the symptoms, and proached the symptoms were all aggravated, and durwe pass to the etiology. Having already given you ing the period she was apparently oblivious of much Sydenham's views on this point, I will add that of a that occurred. Knowing that she had received as more modern author and then give you some cases good care and treatment as the State afforded, with from my own experience, and there leave the subject. apparently no relief, 1 soon became convinced that All authorities agree upon one predisposing cause, nothing but a cessation of the menstrual function as by far the most important—so important and pre- offered much hope. I found sharp retro-flexion of dominating that, in my opinion, it becomes very highly the uterus, to which pessaries gave no relief, on acsignificant, viz.: sex. Until within a comparatively count of the extreme sensitive condition of the vagina, short time hysteria in the male was not even talked preventing her wearing one for any length of time. or written about, and even accepting all that we know There was also prolapsus of the right ovary, so that of the reported cases, they are trivial in character by it could be felt in the posterior cul-de-sac. It was comparison. Men have a nervous system, and it not particularly tender, however, and was movable

to regard it of so much consequence as it was formerly be demonstrated. Everything in way of treatment

supposed to be.

passive congestion of all the parts removed. It was along the course of them." impossible to retain the nterus in place, so the retroshe writes as follows:

gratitude for the gain of these last two years. I can rible suffering, she is now a comfortable, useful young see that I am stronger than a year ago, and much im- lady. In this case there was an entire absence of any proved from two years ago. I thank you very much of the usual developments at the period of puberty and can always assure you of my best wishes." Within -no enlargements of the breasts-no hair at all on the past year she has grown still better. In many the mons veneris, or external genitals. I think respects this was one of the very bad cases on act the unsexing in this case could not have been very count of the severe and obstinate retro-flexion.

Case 2.—Miss B., aged 24. From her first mencase there was partial prolapse of one ovary.

made, and the specimens showed a condition similar globus, etc. Never had hysteria before measles. to the last, with the addition of a complete string of Has been under the best medical care she could small cysts along the entire length of one of the fal-obtain, with all the opportunities of best hospital most grateful and happy person one would rarely both ovaries, with atheromatous closure of tubes. meet, with no hysteria or other abnormal nervous

symptoms.

no pressure exists in these cases, I think we are not abnormal-no enlargement of ovaries or tubes could was resorted to for a year without the slightest relief On June 20, 1883, I removed the uterine append- being obtained. The appendages of the uterus were ages. I found very extensive cystic degeneration of removed, and each ovary was found so completely each ovary, the right one being about twice the size. destroyed by inflammatory action and cystic degen-The tubes were partially closed, and had several eration that, as my notes have it, "scarcely any norsmall cysts adherent to them. There was a general mal tissue left in either,"—" tubes closed and cysts

For four weeks she suffered no pain at all, scarcely flexion continued, and I doubt not retarded the pro- requiring an opiate; at the end of that time she got gress of recovery, which from that time commenced, out of bed herself, sat up nearly all day, got pelvic and slowly, but surely, continued, growing better each cellulitis, from which she suffered more or less for month. All the prominent hysterical symptoms had several months, which ended in abscess opening disappeared at the end of the first year, and she be-through the uterus into the vagina. From that time gan to enjoy the comfort of life. On the anniversary she began to recover, and is now as well apparently of the day of her operation, at the end of two years as any one. There was never any return of the spasms or general neuralgia, so constant before the "Please permit me once more an expression of operation. From a helpless, hopeless victim of termuch.

Cases 4 and 5-So closely resemble each other, strual period until the day of operation, she suffered and being of another type from those described, I the most terrible agony sixteen days out of every give them together. Miss L. and Miss N., of about twenty eight. Twelve of these days of suffering the same age, 24. Miss L., temperament, family and were marked by epileptiform convulsions; pain of personal, nervous. Four sisters-all nervous-three the most excruciating character in all parts of the have painful menstruation. Menstruated first at 13 body; the following four days had no less suffering, —not regular first year—nausea, pain in back, head-but were attended with flowing. The remaining ache and pain in the lower limbs; length of period twelve days of the month were almost entirely free five or six days. Had measles four and a half years from suffering of any kind whatever, but always at before the operation, since which has been suffering the end began the same round of troubles. Her much at periods-flow of but one day-within the friends became very anxious in regard to her, as she past two and a half years the flow has been followed frequently threatened to take her own life. In this by nausea and vomiting nearly every morning for two weeks. Hysterical symptoms of a painful con-The operation for removal of tubes and ovaries was vulsive character at each period-screaming, crying, lopian tubes. They looked like a string of small care-no relief whatever. I found a very sharp antibeads. There was complete closure of both tubes. flection at cervico-corporeal junction-made forcible From that day until now, she has not had (to use her dilatation, followed by the usual local treatment of own language) "one minute of any kind of ache or packs, douches, rest, etc.; no relief. Operation pain;" she is perfectly well in all respects and the showed extensive follicular cystic degeneration of

Miss N. so closely resembled the last, both in having measles as a cause of aggravation of symptoms Case 3.—Miss F., aged 17. Menstruation began and antiflexion, that a history of one is that of the at 15; from the first time to the last of a most violent other in many respects. The flow was preceded by character, both as to pain and quantity of flow-fre- many days of severe suffering, which became hysterquently flooding like a woman at childbirth-clots of ical convulsions during the flow, which lasted two immense size, and expelled with characteristic labor-pains. For several months prior to operation, she at each period, resembled a miscarriage of the severwas not free from severe pain at all. Clonic spasms est kind; dilatation afforded no relief; no fungus of a most frightful kind in lower extremities, necessitating the constant use of chloroform by inhalation eral years of treatment with no benefit, the operation for days together. The uterus normal in all respects of removal of uterine appendages was made with enno fungus degeneration or evidence of unusual tire relief to all suffering. From being a chronic congestion-a curetting under ether revealed nothing invalid she is now entirely well and able to perform any kind of labor. Miss L. was also completely re- intervals rigidity of body would come on, lasting for strength so as to be able to be about, although she is improving rapidly, considering her very anæmic condition previous to operation.

The pathological condition of the tubes and ovaries were similar in Miss N.'s case, except that there were two or three cysts of the tubes as large as peas.

Case 6.—Mrs. F., age 30, married seven years, had Three years ago began to have nausea and vomiting, taking food. She and her husband believe that for lady. the two years previous to operation she did not retain a spoonful of any kind of food. She became almost entirely bloodless, and so weak that she would frequently fall to the floor, when about her work, in a hysterical convulsion, that would sometimes last and each case has a certain amount of professional for hours. Symptoms aggravated before and during menstrual period.

After two years of treatment under my care I became convinced that only a cessation of menstruation would give relief. For a few months she tried various modes of treatment, and finally consented to the operation. In three weeks she was able to return to her home. From the day of the operation she did not vomit once, but was able to eat everything she desired. Previous to the operation her of the same phases, and with as good results. finger nails had become entirely dead, flattened, the ends of the fingers to bleed and be constantly painful. Since the operation everything has changed. affords, taking entire charge of her family and riding was twice the normal size and contained a cyst holding half a drachm.

vomiting is concerned, I operated upon two months ment from various intelligent physicians, never pregnant. Alternations of amenorrhoea and severe floodvious and like whipcord, a chronic partial congestion in all the pelvic organs. Severe and obstinate low an artificial one. vomiting followed operation for more than two weeks,

trate one phase of the reflex symptoms.

catalepsy had been a marked symptom for several

lieved from suffering, but has not yet regained her hours. Neither drugs or other means of treatment gave any relief. She had all the benefit of hospital care and attention for months at a time. There was marked retroflexion with complete retroversion. Replacement and support would relieve for a short time, but nothing permanent came until the operation of castration was made, since which she has never had the slightest return of any one of the symptoms. three children within four years; never pregnant after Extensive follicular degeneration of ovaries was found. that, although no means were used to prevent it. Insomnia, vomiting and indigestion had been prominent in this case. She eats, sleeps and digests perwhich in six months became a constant thing after feetly, and is now a healthy, well nourished young

> I have not time, even had I the courage, to trespass upon your patience to report any more cases. I have now made the operation twenty-five times, interest. Four or five have been made for uterine fibroids, mostly for excessive hæmorrhage, with complete relief to the hæmorrhage. One case the removal was made hoping it might stop the growth of a fibroid and relieve the suffering due to pressure. There has been no relief, however. I think cases like this should have hysterectomy. The cases reported were selected as types of the various phases of hysteria. Among the cases not reported are types

In only one instance I was unable to remove the clubbed and turned up at the ends, so as to cause entire substance of the ovary and tube, and this is the only instance of continued menstruation. She suffers very much at these periods, and I think I she is a strong, florid, fine healthy woman as the city shall make another trial to finish it. In no case have I failed to find well-marked disease of the appendon horseback and driving every day. The left ovary ages, either strong evidences of former attacks of oophoritis, as indicated by exudate and other organic changes in the substance of the ovary, or enlargement and stenosis of the fallopian tube. A similar case to the last, so far as the constant more than four instances have I been able to make a diagnosis by the touch, but have in all the others since, and so far as we are able to judge at this time operated entirely for the relief of the hysterical sympthe result is equally good. Married sixteen years, a toms. With the single exception named, in every great sufferer from dysmenorrhea fourteen years, case great relief has followed, and with two excepduring which time she has been under good treat-tions, I have no reasonable doubt that a complete cure will result after a reasonable length of time. We cannot expect that a nervous system that has ing, with repeated attacks of pelvic peritonitis. Tubes suffered for years will at once resume its normal and ovaries adherent throughout their entire length. functions. The wound is tender after the thorn has I had great difficulty in detaching them, but finally been removed. Effects do not immediately cease succeeded. The ovariantissue was entirely destroyed on removal of the cause; women suffer more or less by inflammatory softening and exudate, tubes imper- from some disorders of the nervous system at the natural menopause; similar symptoms naturally fol-

I do not by any means claim that all hysterical accompanied and doubtless largely caused by peri-symptoms are due to diseased uterine appendages; tonitis. Now she is taking a good quantity of nour- but I am sure, from this experience, that in these ing food with impunity, and is recovering very rapidly. cases they stand in the relation of cause and effect. I have selected these two together, as they illus- I know that in a very large majority of these cases these women have been suffering invalids for years, In another case Miss I., aged about 30, hysterical and that all modes of treatment have been of no avail. From being burdens to themselves, and dependent years. She would lie for weeks at a time utterly ob- upon their friends for help, they are now comfortable livious of everything and every one about her. At and independent. Through long suffering and in

many instances from lack of sympathy for their suf- from my own experience and that of the men who fering, life has lost its charm and they would gladly have rid themselves of it, while now they are glad to up about as follows: take their places as useful members of society.

I have never operated in any case where I have not been well satisfied, either from my own care of the case, or from that of intelligent physicians, that further treatment in any other manner would be of no avail. I have no regrets at the course pursued up to the present time, and I know of no case where the patient regrets the step she took.

· In answer to the objection that it unsexes the woman, I have only to say that in all the married women, they either have never been pregnant or have not since the beginning of their most serious symptoms, even though several years have elapsed since

their last childbirth.

Dr. W. Gill Wylie, professor of gynecology in the New York Polyclinic, in reporting thirty-seven operations for removal of the uterine appendages, in the Medical News of March 27, 1886, says: "I have yet to see a well-marked case of hystero-epilepsy or decided hysteria operated upon, in which the ovaries were not found in a state of cystic degeneration or very much atrophied. And these are nearly always associated with an imperfectly developed or atrophied uterus." And in the same paper he says, what I have found true in several cases, "that in those cases where the subjective symptoms were chiefly reflex and of a nervous order, the immediate results were by no means always satisfactory, although many recovered after being seemingly unimproved for several months.'

When we take into account how little has formerly been done in these long-standing reproaches to the profession, we can certainly get much comfort from is yet too soon to speak positively about the results of the operation in all classes of cases, but I can say without hesitation that in those cases where the subjective symptoms were actual local pain and physical inability to go about without causing persistent pain -and almost all the cases of pyo-salpinx would come under this head-the results were good and satisfactory to the patient and physician. In many cases the relief from pain was gratefully acknowledged at

This is so thoroughly in accord with my own experience that I need only to quote it as applicable in a majority of my own cases. The experience of Battey and Tait, who are deservedly the pioneers in this department of gynecology, is now so well known to the profession, that it would be supererogation at this time to allude to it in detail. It is no longer a question with them what shall be done with this large class of sufferers; by hundreds of cases they have demonstrated the utility of the procedure.

The very extensive and valuable papers relating to to this and kindred subjects, by Mary Putnam Jacoby, show that what at first glance may seem to be only slight changes in the ovary and tubes, are really severe structural organic changes, that without doubt have destroyed their function.

If I were asked to formulate my views, derived

have done much more in this direction, I should sum

- 1. That these (so-called) hysterical symptoms occur almost exclusively in women. That whenever any of them do occur in men they are much less in degree, even if they do not differ in kind.
- 2. That it is fair to presume from the first proposition that it is due to disease of some organ or organs peculiar to women.
- 3. That they are not due to disease of the uterus alone, for when all apparent abnormalities of the uterus are corrected, the symptoms, very often, are not in the least relieved.
- 4. That all modes of treatment, other than operation, have failed to cure, and in most instances have not ameliorated, the symptoms, even where the disease was believed to exist in the uterine appendages.
- 5. That the large majority of all cases operated upon have been entirely cured of the symptoms for which the operation was made, and the remnant have been relieved and are continuing to improve.
- 6. That it is impossible, in a majority of cases, to determine by the touch, disease of these organs that will produce the symptoms alluded to.
- 7. That one can by these symptoms alone make a sufficiently satisfactory diagnosis to warrant the operation.
- 8. That after correction of all well known and clearly diagnosticated uterine troubles, these symptoms are not relieved, we are justified and required, for the cure of our patient, to recommend this remedy.
- That the operation does not in any case destroy the sexual desire, or in any way unsex the woman, the results in his cases. On this point he says: "It except so far as it may prevent further childbearing.
  - 10. That in a majority of cases requiring the operation the woman is already sterile.
  - 11. That in my own experience the specimens removed have been found so changed by inflammatory action as to be cirrhotic, or otherwise destroyed, either by softening or cystic degeneration of both ovaries and tubes, with very frequent stenosis of the
  - 12. That a fatal result from the operation is extremely rare, if it is carefully performed and closely and intelligently managed as to the after treatment. In the twenty-five cases operated upon there has been but one death.

It is certainly time that the profession were done with the old idea that a hysterical woman is only to be laughed at, and treated as one who deserves no consideration at our hands. Thousands of women, of the strongest character, have been cruelly and shamefully treated by their friends, even while they were suffering the most excruciating ageny, and simply because the profession has given countenance to the theory that "she could prevent it if she chose," that she was "only hysterical." We cannot expect more from the laity than we teach them. Instead, let us each strive to "contribute something to the science of pathological anatomy" out of this mass of distressing symptoms.

#### ORIGINAL ARTICLES.

THE DANGERS OF KISSING.

BY SAMUEL S. ADAMS, A.M., M.D., PROFESSOR OF THE THEORY AND PRACTICE OF MEDICINE, MEDICAL DE-PARTMENT OF THE NATIONAL UNIVERSITY; ONE OF THE ASST. ATTENDING PHYSICIANS CHILDREN'S HOSPITAL, D. C., ETC.

For more than two years past I have had in mind terial has been collected during that period. I have only recently, however, examined the literature of

the parent who has the courage to oppose this repre- a new one each season. There is this difference behensible habit. After reading these two papers I tween the animal and the man: the one mates bedetermined to broaden the scope of this communi- fore it kisses, the other kisses before he mates. cation and cast it in a mould more for the general audience.

published in the early part of the eighteenth century. ing and common-place salutation.

These are in the Latin, and I am indebted to my municated by kissing.

Ermelius says that reason and experience prove that the saliva is especially calculated to be a carrier germs) are hidden under its viscidity. It may contain a great number of "aireo atherial particles" of a benign or malignant nature, as hydrophobia.

Forestust has shown that kissing has been the source of contagion in syphilis.

Hentschele contends that the "miasms" of various diseases can be carried with kisses—scorbutic, venereal, purpuric, petechial, scabious, leprous, pestilential, and all other species of contagion in which the causes are subtile. Not only the volatile substances which may be conveyed to others in respiration, but also the saliva and the vapor and exhalations of the

1 Read at the meeting of the Washington Obstetrical and Gynæcological Society

6 De Osculo Morbifico et Mortifero, 1746,

cal society

2 September 19, 1885.

3 "Babyhood." September, 1885.

4 De osculo ovim philtri exserente. Inaug. Dis., 1719.

mouth may be transmitters. Therefore, ulcerous infection, salivary tumors, cancrum oris, scurvy, syphilis and phthisis may likewise be communicated.

Paullini<sup>1</sup> bewails the transmission of scurvy among German children by kissing as a salutation, a custom

of England, Holland and France.

Oertel<sup>2</sup> reports two cases of diphtheria contracted by a kiss, the membrane appearing on the second day. Kissing is a custom that not only prevails universthe preparation of this paper, and much of the ma- ally among the human race but also in some of the lower animals. There is a vast difference, however, in the exercise of this custom. In the former the the subject, and was greatly surprised to find it so kiss is given to almost any submissive person, while meagre. None of the ideas advanced in this article in the latter it is only employed as one of the means have been borrowed from this literature, as they were of expressing affection. The truth of this latter propconceived before this was examined; but I do not osition is well illustrated in the bird which will frisk claim that they are specially new, however original among its playmates without being tempted by their charms to give up the kiss which is reserved for its My first purpose was to discuss the subject from a mate alone. It may be said that the animal looks purely professional standpoint. In a late number of about, finds its mate, bestows its kisses, propagates, THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIA- raises its offspring and, finally, divorces itself, thereby TION2 the editor commented on "Compulsory Kiss- gaining numerous mates, but we know that many ing," basing his remarks upon an article from the pen animals, if undisturbed, will continue with the same of Eleanor Kirk,8 in which she undertakes to defend mate and raise successive broods, and will not seek

Reasoning from analogy the conclusion that kissreader than is consistent with a purely professional ing was originally intended to give utterance to the affection is reasonable. How far this intention has As I said before, I was surprised at the meagreness been perverted by man is a problem not easily solved; of the professional literature upon this subject. There and yet the solution would seem easy if one were may be isolated reports of cases of diseases transmit- allowed to reason from the promiscuous and broadted by kissing which I have not found, but the library cast kissing of every-day life. Instead of being an of the Surgeon General U. S. Army contains only expression of one of the noblest attributes of man, two works bearing on the subject, both of which were it has almost degenerated into an insincere, unmean-

When kissing is confined to the same sex there is friend, Dr. Kolipinski, for valuable assistance ren- a great difference in its sincerity. In some European dered in their translation. From the following brief countries the custom is for men to kiss one another abstracts may be gathered the general drift of these on the forehead or cheek; but in this country the writers, and I also add one or two notes from others practice prevails only to a very limited extent; and who have mentioned the fact of a disease being com- only then as an expression of the warm affections between father and son or brother and brother.

Between females the act has become so common that it is hardly more than a ready and easy mode of of the contagium. The "molecules" (poisonous greeting, having no greater meaning than the conventional hand-shaking.

When kissing is extended to the opposite sex I must accord to woman the credit of being the more cautious upon whom this index of devotion is bestowed.

All this simply shows that kissing is extensively and injudiciously practiced by those who have arrived at the years of discretion, thereby setting a bad example for those of less mature judgment. There can be no question that certain transmissible diseases are communicated by promiscuous kissing among adults, and it is fair to assume that the same diseases are communicated to children in the same way. Adults are supposed to be capable of judging for themselves in such matters and it would be folly in me to attempt

<sup>&</sup>lt;sup>2</sup> Ziemssen's Cyclopædia, Vol. 1, p. 595.

they are the guardians of the children this paper will ondary symptoms of syphilis. Would it have been be devoted to pointing out to them some of the surprising if the virus had been transferred by a kiss dangers to infants and children of promiscuous kiss- to this child? On the contrary, it will be marvelons ing, and the suggestion of a few remedies for its if it escape. The merest tyro in medicine would

suppression.

From birth to the beginning of sexual evolution, perhaps, the child is exposed to moral, mental and case of an estimable young lady who had a chancre physical dangers from promiscuous kissing. Up to on her lip. Admission confirmed the opinion of her the latter age kissing is not a matter of choice, but physician that the man to whom she was betrothed an act made compulsory by the kisser or by someone had contracted the disease and, unfortunately, had having the supervision of the child. Indeed the infant inoculated her lips in kissing her. Suppose this man is the passive victim, and it is not until the third or had kissed one or more of this dozen babies—a thing fourth year that the child repels the aggression. Then, not at all improbable—and they had caught the disit too frequently happens that in spite of its disinclina- ease? The result might have been the same, but tion, it is forcibly compelled to submit. With in- would the source of contagion have been as easily creased strength comes a growing aversion to kissing, discovered? coincident with the rapid growth and physiological from the numerous extraneous causes of disease.

are not unlikely a dozen maids with as many or more in this manner. infants and young children congregated there. These disease may be found. In a former contribution' I equally as well. pointed out the difficulty in selecting wet-nurses and

to restrict them in exercising these privileges; but as cle was a girl whose facies bore evidence of the secassume the responsibility of discharging such a maid.

Some time ago a fellow-practitioner reported the

Mechanical injuries may also be caused by kissing. development of childhood, which seems to be one of When it is remembered how delicate the infantile the many wise provisions of nature for protecting the structures are, the wonder is that they so often escape delicately constructed and rapidly changing organism injury. May not some of the misshapen mouths and distorted features be traced to too much kissing? It would be interesting to follow a baby from the One need only reflect upon the powerful suction time it is placed in its perambulator and receives the sometimes displayed in such performances to realize maternal kiss until it returns later in the day, in order its dangers. There is a well-authenticated case in to note the peculiarities, both mental and physical, which the membrana tympani was ruptured by kissof the numerous persons who stop to kiss it. To ing the external opening of the ear, undoubtedly due gain some idea of the mixture and the probabilities to suction, and I have seen an ecchymotic spot on a of the transmission of disease one need only sit in child's cheek caused by prolonged suction in kissing one of our large parks on a bright sunny morning and it. Although I have not seen any injury to the eye study the physiognomies of the strangers who kiss positively traceable to this cause, nevertheless, in my the baby as it lies in its carriage. At this time there opinion, its delicate structures could easily be injured

These perpetual baby-kissers are not particular custodians extend the matutinal salutation by kissing where they ply their vocation. The mouth and face the babies all round. Among a dozen such people it are the sites most frequently selected, but other parts is not improbable that some benign or malignant of the infantile anatomy seem to answer the purpose

But aside from these physical injuries, there are the danger to the infant in being wet-nursed. I then moral ones as well in childhood. At this time of claimed that we could not vouch for the health of life the disposition of the child is being formed, and any woman because of the latency of many diseases. it should be the aim of every parent to train it so as With equal weight, I believe, the same argument may to be gentle and kindly. As the child grows older be advanced respecting the selection of nurse-maids. kissing perhaps becomes obnoxious to it, yet some Mothers are afraid certain transmissible blood dis-eases may be conveyed to the child through the wet-distasteful ordeal even to the point of inflicting cornurse's milk, and they want their family physician to poral punishment for refusal. How many of my assume the responsibility of her selection. It may readers can recall those happy juvenile days that not have occurred to these watchful mothers that the were made miserable by punishments inflicted besame blood diseases can be conveyed by other liquids cause they refused to be kissed by some repulsive of the body, and this, perhaps, may account for the visitor. Who of us but can revert to those moments absence of the doctor's advice in choosing the maid, of torture when we were called from our games to If it be true that tuberculosis is due to specific be kissed? I venture to say that many of my readers germs which pervade every portion of the body and have undergone the child's experience, and have run circulate in every fluid, then the child's chances of at the sight of a visitor because remaining meant being inoculated by the saliva, in kissing, are as great kissing. Were you punished for escaping? If so, as by the milk in nursing. So impressed am I with do you still wonder that when children are forced to this mode of inoculation, that I usually inquire into these distasteful performances they sulk and pout, the maid's history whenever I am called upon to treat fret and cry, run and hide, and disobey their parents? an eruptive disease of doubtful character in a child. If you will look about among your acquaintances you Not long since I observed, lying in a carriage, a can no doubt pick out not a few the thought of kissbeautiful baby which indicated every evidence of ing anyone of whom would cause your appetite to wealth and high social standing. Pushing this vehi vanish and the natural quietude of your stomach to be disturbed; and yet would you compel a child to

<sup>1</sup> How Shall We Feed the Baby? Archives of Pediatrics, April, 1885.

tories were less acute and its delicate stomach less fuse to join in such pastimes it was either "shamed"

easily offended?

we see diseases that are not classed as contagions, and to be one of the most common amusements of chilthe face or lips. Among this class may be men- the contagium of many other local diseases of the tioned herpes, eczema, and ulcerative stomatitis. face and scalp could be traced it would be found to Most parasitic diseases are conveyed by close con- originate in the same cause. tact only, and their frequency in childhood may, not who had lately kissed it.

ence in the sexes is noticeable. The girl becomes that excitation of the former by kissing must necwary of the caresses of the boy, and this I believe to essarily cause excitation of the latter, and consebe the result of instinct rather than of reasoning, quent premature development. Some may claim parental precept or education. With this period the that the child's sexual organs are not excited by innate modesty peculiar to woman becomes manifest. kissing, but the facts do not sustain this opinion, She refuses to romp and play childish games, and as- and, on the contrary, demonstrate its error. I firmly sumes more dignified airs. No one but the girl who believe that frequent kissing induces precocions is undergoing this physiological change can properly puberty, which we all know is injurious to the moral, appreciate the perplexing difficulties encountered in mental and physical well-being of the child; and I adapting her mode of life to the requirements of her have no doubt that hyper-excitation of the passions bachelors by drawing the line of their salutations at cause of diseases incident to unnatural irritation and hand shaking. By thus asserting her womanhood she congestion. I have in mind a case of serious irregunot only offends these sage visitors, but also, perhaps, larity in menstruation, in a girl of 14 years, which I establishes a reputation among her eligible spinster was clearly able to trace to its origin in this pernirelatives for haughtiness, prudery and general dis- cious custom.

agreeableness.

boy. He who was admonished or perhaps chastised much easier to suggest a specific for the cure of a by his parents for being shy, diffident or unwilling to great social evil than to apply it. The suppression be kissed, suddenly astonishes the family by an entire of the kissing salutation must be a matter of educachange of disposition. He too begins to feel the tion and will not be an immediately accepted reformimportance of his age, and, unlike the girl, takes ation. We cannot hope that all the parents of to day every advantage the opposite sex will give. Boys at will promptly see the possible dangers in promiscuous ward them with a kiss. When such freedom is given and yet it would, undoubtedly, be fully justified by abuses of kissing.

One of the most fortunate reformations of childhood would be the abolition of kissing games. I tories are either doubtful or unknown be allowed to think the custom is gradually dying out. Only a few kiss children. Nurses should be carefully instructed years ago a party of children could not amuse them. in the dangers of the custom, and should be strictly selves without spending most of their time at these cautioned to exercise vigilance in order to protect

submit to an act distasteful to yourself, as if its olfac- games. If a child were independent enough to reinto it or adjudged disagreeable. Ringworm is a There are many diseases met with in children which very common disease among school-children, and its I believe are communicated by kissing. Frequently most frequent seat is the face. These games used yet all the children in a family have them. Probably dren during their play-hours at school, and I am conin such a case the disease was transplanted in kissing, vinced that the rapid spread of this disease could and this opinion seems reasonable when we observe have been directly traced to the promiscuous kissing that such diseases usually make their appearance on in these games. I also believe that if the spread of

Many of the vices of later childhood may, I beimprobably, be attributed to the frequency of this lieve, be caused by early and undue excitement of vicious custom. I have no doubt that in isolated the undeveloped sexual organs, caused by this vicious cases of eruptive diseases, when every one is puzzled custom of promiscuous kissing. It may be contended to find the origin, inquiry might reveal the fact that that no physical injury can be done at this age on the child was inoculated by the germ from the lips of account of the imperfect procreative functions; but a distant relative, friend, casual visitor or stranger we know that repeated excitation of any organ hastens its development, and that there is such an inti-As the child approaches puberty a marked differ- mate relation between the lips and the sexual organs She must restrict the heretofore privileged of the precociously developed child is the frequent

In attacking such a universal custom with the hope At this critical age it is entirely different with the of offering a remedy for it I am conscious that it is this age are very susceptible to the flattery of escort-kissing. It would be ridiculous to expect that any ing young ladies about, and are quick to perceive the family would exclude kissing from its methods of saladvantage of being accommodating and polite. They utation. Indeed, under ordinary circumstances, it enjoy the company of ladies who consider them little would seem unreasonable in a mother to refuse to boys, and for their good behavior and politeness re- allow members of her own family to kiss her child: a boy at such a critical and susceptible age may we all reasonable people if she should insist upon it not conclude that the consequences will be harmful? being exclusively a family privilege; and even a If women would adhere to the strict regime they member of the child's own immediate family who has adopt upon entering their "teens," and not depart either a benign or malignant disease of a contagious from it to reward the civilities of youth, it would do nature should unhesitatingly be excluded from this more than any other restriction to correct these privilege if the mother desire to secure the safety and health of her offspring.

Under no circumstances should persons whose his-

they be permitted to indulge in the habit. dangers it should be taught to respectfully decline the proffered salutation. If it were taught to refuse every one then there would be little fear of offending sensitive people. If a child seem unwilling to be kissed the parent should never compel it to submit; and for disobedience in this respect it should never it may be incapable of imparting it. Children should not be encouraged to play kissing games.

freer communication between it and the parent. The the organ seems as if gelatinized, moves in toto, latter should point out the approaching physiological shrinks, and contracts little by little, responds to changes and their attendant dangers - prominent neither mechanical nor electrical stimulation, and is

among which I place kissing.

To correct the abuses of kissing will not be an easy or enviable task for the mother, but if she will begin to correct them soon enough it will not be long before she will be able to eliminate this almost vice

consideration of this Society I have no desire to achieve martyrdom in the eradication of what may the ganglia of the vaso-dilators. Kairin must also be be called one of the great social evils. I have only aimed to point out a few of its many dangers which are well known to medical men, and I trust that it may be the means of inducing the mothers of the coming generation to take the initial step towards curtailing if not wholly suppressing this insincere, commonplace and dangerous mode of salutation.

1525 I St., Washington, D. C.

#### MEDICAL PROGRESS.

INFLUENCE OF KAIRIN, THALLIN, HYDROCHINON, RESORGIN AND ANTIPYRIN UPON THE HEART AND BLOOD-VESSELS.—In a series of experiments on this subject, Dr. H. G. BEYER draws the following conclusions:

Kairin.—The conclusions which we may draw from experiments on the frog's tongue with kairin are: (1) that it produces dilatation of the capillaries and times followed, by an abnormal contraction; (2) that upon the muscular substance. it causes a slight acceleration in the current in the

to be in good working order, and low venous as well sufficient to condemn it. as arterial pressure was used, a very slight but transient increase in the rate, and even in the force of its with hydrochinon on the heart and blood-vessels of contraction was noticed when the dose was not too the frog and terrapin, we must arrive at the conclularge; but this was always quickly followed by signs sion that it reduces temperature mainly by increasing of general weakening. The entire organ, then, be- heat radiation, owing to its influence upon the veins, comes much enlarged, occupying from twice to thrice which it largely dilates, and the capillaries and arteriits normal volume, its contractions become peristaltic, oles, which it also dilates, though to a less extent.

the child from the kisses of strangers. Neither should with blood, never emptying themselves completely. As a rule, the auricles are much sooner affected and When the child is old enough to appreciate the recover much later than the ventricle. Under these circumstances the rate of the heart is much decreased, the amount of work done is sometimes increased, owing to the relaxed condition of the ventricle, but more often decreased, and, finally, diastolic arrest ensues. The heart presents the color of kairinized blood, which, however, again disappears, but, after be punished. It has a reason for its refusal, although repeated kairinization, it becomes permanent-in other words, the color of the blood has become the color of the muscular substance of the heart. From As the child approaches puberty there should be a this condition the heart was never found to recover: to all appearances dead. This condition of the heart may almost at once be produced by injecting a two per cent. solution of kairin into its substance, by which arrest in systole is produced.

The temporary diastolic cardiac arrest which kairin from the category of the probable causes of disease. produces is most probably due to its stimulating ef-In offering the above suggestions to the thoughtful fect on the terminal filaments of the pneumogastric, and the vascular dilatation to a similar influence on

considered a muscle poison.

From the results of experiments, it is quite clear that kairin reduces temperature, both by diminishing heat production and by increasing heat radiation. The distinctive influence it exerts on the red bloodcorpuscles, however, and the weakening effect upon the heart, render its employment objectionable and dangerous.

Thallin.—Summing up the results of experiments with thallin upon the heart and blood-vessels of the frog and terrapin, we notice, first, the striking similarity which exists between it and kairin, the only difference, in fact, being that thallin has a much less injurious influence upon the ventricle, the auricle and blood vessels being equally affected by both drugs.

The temporary diastolic cardiac arrest produced by both these drugs, we are inclined to attribute for the most part to their stimulating influence on the terminal filaments of the pneumogastric. The dilatation of the blood-vessels, most probably, is produced by their stimulating effect upon the ganglia of veins, which dilatation much exceeds that of the ar-the vasodilators. The subsequent contraction of terioles, which latter is sometimes preceded, some- both heart and arterioles is due to their direct action

Thallin, like kairin, reduces temperature by diminarterioles and a slowing of the flow in the small veins. Ishing heat production, and by increasing heat radia-All the experiments made with kairin on the heart tion; as an antipyretic it is less dangerous, but no (nine in number), show the great weakening effect it less objectionable, than kairin, for while its effect upon exerts upon the contracting power of the cardiac the ventricle of the heart is less depressing than that muscle. In some cases in which this organ happened of kairin, its influence upon the blood-corpuscles is

Hydrochinon.—From all the experiments made incomplete, and sluggish; the auricles keep well filled Through its influence upon the red blood-corpuscles pairment of their respiratory capacity.

chemical decomposition underlying the appearance its own veins, to use the words of Ludwig. of this phenomenon. The peculiar coloring principle thus set free diffuses itself through the walls of the into the lymph-sac of the frog very slightly contracts veins into the neighboring tissues.

upon the heart and the blood-vessels of the frog and tongue, it gives rise to extensive dilatation in the terrapin, with that of kairin and thallin, the result veins and also the capillaries; a 1 per cent. solution shows that hydrochinon affects the ventricle of the of it applied to the tongue of the frog will, after a heart still more favorably than thallin; the auricles, short time, cause coagulation in all the superficial however, are as promptly paralyzed by hydrochinon blood-vessels. The manner in which antipyrin reas they are by thallin, and even kairin. All three duces temperature is purely by increasing heat radialargely dilate the veins, for which they show a de-tion, owing to its extensively dilating the veins and cided preference, and they also dilate the capillaries capillaries; but what stamps it is an excellent antipyand arterioles; the dilatation of the latter, however, retic is that, besides dilating the veins, it also has a is either preceded or followed by an abnormal contonic influence on the heart and slightly increases traction, especially noticeable when the drug was in- arterial pressure, or at any rate does not cause a dijected hypodermatically. On hypodermatic injection minution of the same. It has, moreover, no injurious of all three of the drugs, slight muscular spasm may influence on the blood or the muscular tissues, and be seen on the frog's tongue.

The action of hydrochinon, then, being similar to that of kairin and thallin so far as the heart and thallin as antipyretics is from the fact that they cause blood-vessels are concerned, the explanation of its heart paralysis, especially affecting the auricles, in action must, in like manner, be similar. The peculiar doses only slightly larger than are sufficient to proaffinity of kairin, thallin, and hydrochinon for veins duce a lowering of the temperature. But this oband venous blood cannot be explained by these jection becomes an absolute danger when we take experiments.

Resorcin.—A consideration of the results of the corpuscles and tissues generally. experiments leads to the conclusion that resorcin reduces the temperature by increasing heat radiation the same weakening and directly paralyzing influence by the dilatation it produces in the capillaries and upon the ventricle of the heart which is peculiar to veins, especially the latter. The same quite remarka- kairin and thallin, both paralyze the venous side of ble preference for the venous side of the heart and the heart, viz., the auricles, and greatly lower the vascular system is shown by resorcin in nearly the tone of the walls of the veins. The extra amount of same degree as by thallin and hydrochinon. Resorcin blood, therefore, which is driven into the veins through paralysis the auricles in doses which seem to improve the increased action of the ventricle, is only with rather than impair the contracting power of the ven- great difficulty returned to the ventricle, and here the tricle, and it largely dilates the veins, while the arte-danger is not so much from failure in the power of rioles are affected but very slightly.

resorcin reduces the rate of beat of the heart prob- its own veins. The intense visceral and especially ably by a stimulating influence on the terminal fila-pulmonary congestion found on post-mortem, by ments of the pneumogastric, and dilates the vessels Dujardin-Beaumetz, and others, in animals killed by through a similar influence on the ganglia of the vaso- resorcin, seems to confirm this view of the matter. dilators. The tonic effect which it has upon the ventricle is most probably due to its direct action upon creases the power of contraction of both auricles and the muscular substance of the heart. We have, so ventricle, and has no injurious influence upon the far, no explanation of the difference in the action of blood nor the muscular tissues, and therefore possesthese drugs upon the two sides of the heart and vas-cular system. Nevertheless, the fact remains that retic.—American fournal of the Medical Sciences, all of the drugs so far considered possess this prop- April, 1886. erty nearly to the same extent. The only difference regarding their influence upon the heart lies in the ventricle. Kairin and thallin, in small doses, exercise Royal Medical and Chirurgical Society, on April 13, but a temporary tonic influence over its contraction; a paper by Mr. Knowsley Thornton was read,

it probably also diminishes heat production, by an im- They all quickly paralyse the auricles and lower the tone of the walls of the veins. The natural conse-The singular but noteworthy fact, observed under quence is that a much greater quantity of blood will the microscope on the frog's tongue and elsewhere, be contained in the veins than in the arteries, and its that kairin, thallin, and also hydrochinon change the passage from the veins back into the ventricle is color preferably of venous blood, seems to point to greatly impeded, owing to the paralyzed condition a peculiar affinity of these substances for such blood, of the auricles. Collapse, therefore, ensues; not so and it is not at all unlikely that the presence of car-much from failure of the action of the ventricle, as bonic dioxide in venous blood is the cause of its from the danger of bleeding the animal to death into

Antipyrin.—Antipyrin, in very small doses, injected the arteries, but dilates the capillaries and veins; in When we now compare the action of hydrochinon large doses, applied directly to the surface of the strengthens the auricles.

The objection to the employment of kairin and into account the destructive influence upon the blood

Hydrochinon and resorcin, although not exerting the ventricle as in the case of kairin and thallin, as As is the case with kairin, thallin, and hydrochinon, from the danger of bleeding the animal to death into

Antipyrin, though largely dilating the veins, in-

hydrochinon and resorcin a more permanent one, which was of remarkable interest, as embodying an

erations for the complete removal of the spleen, which plicity of the apparatus required. All that is needed have been performed in England. The operation is an Esmarch's jar, with a glass reservoir, a canula, and was performed almost exactly two years ago, on some India-rubber tubing. The operation is as fol-April 22nd, 1884, for the relief of a painful and rap-lows: Five litres of a 6 per cent. solution of common idly growing splenic tumor, in a girl of 19. It proved salt is prepared with distilled water of the temperato be one of the multilocular cysts, which are very ture of the body. If the veins be so collapsed as to rarely found in the spleen, and which had reached a be invisible through the skin after ligation of the upper dangerous stage; for the walls of the cyst had in one arm, a vein is exposed, and two ligatures passed part become so thin, as to be quite transparent, and under the free portion; the distal end is tied, a longi-Tripture might have followed any trifling accident. tudinal incision is made in the vein, and a glass can-The specimen was shown to the Pathological Society, ula introduced, filled with saline solution, which is soon after removal. No traces of any hydatid orgin then fastened by means of the second ligature. This, could be discovered. The patient was anaemic, but and the pressure of the finger on the vessel, prevent the increase in the proportion of colorless corpuscles the air from entering the veins. The canula is then was not great, and there was no enlargement of the connected, by tubing, with the jar containing the thyroid or other glands. The operation was strictly whole quantity of the solution. Directly the finger aseptic. There was a speedy recovery, interrupted is removed, the injection begins. No ill effects are by a relapse in the third week, with some fever and seen. Dr. Weber relates an instance in which this phlebitis; but, in seven or eight weeks, good health method was most valuable. He was called by a midwas re-established, and what is very important to wife to a married woman, aged 21, who was seized with notice, has been continued up to the present time; post partum hæmorrhage fifteen minutes after the birth so that the physiologist has a rare opportunity of of a putrid child. Dr. Weber arrived at 10:30 P.M., studying the working of the human economy, when an hour after the hæmorrhage had commenced. He deprived of one of its large visceral organs, whose found the uterus atonic, reaching to the umbilicus. functions, in spite of much study, remain somewhat Massage, hot injections, and hypodermic injections enigmatical. Mr. Thornton was able to give the very of camphor and ether, were used, with some effect. satisfactory report of his patient, that, after recovery The hæmorrhage returning, he was called at 3 A.M., from the immediate effects of the operation, she had and after hot douches and ice-tampons, it again despent nearly two years in comfort, and, apparently, creased; but cerebral anæmia appearing to an alarm-normal health; into any more minute physiological ing extent, and the pulse being imperceptible, hot points he had had no opportunity of entering. In compresses were placed on the head, the lower exthe very interesting tables of previous operations, tremities bandaged, and hypodermic injections adwhich he presented along with his paper, there were ministered every quarter of an hour. These proving which he presented along with his paper, there were immuscred every quarter of all note. These proving thirteen for simple hypertrophy, of which nine reunavailing, it was decided to try an intravenous saline injection. This was successfully administered; and Sir Spencer Wells, in 1865, was for simple hypertrophy; but the patient died in a week, with a large cased, and the patient who had been conscious the thrombus in the heart. M. Péan was quite successful whole time, experienced great relief. The pulse, too, in 1867, in the removal of a spleen containing a very became distinct. On 1,000 grammes being injected, large cyst, which held more than five pints of viscid the patient complained of palpitation, and the jar fluid. That was the first success since a rather doubt- was lowered in order to lessen the pressure on the ful case by Ferrerius, in 1711, and by Zaccharelli, in circulation. When 1,500 grammes had been injected, 1540. In the many cases, now reaching a total of the pulse was perfectly good, and the cerebral and about twenty, in which the operation has been re- hæmorrhage symptoms disappeared. The patient corded, as having been resorted to in cases of un-felt completely invigorated, and took nourishment doubted lenkæmia or leucocythæmia, it has invariably without vomiting. She continued to do well, and been fatal; and Mr. Thornton was no less emphatic made an excellent recovery.—British Medical Jourthan other authorities, in its condemnation, under nal, May 1, 1886. such circumstances; and, though these, unfortunately, are by far the largest number of cases in which great splenic enlargement is associated with fatal disease, Mental Disease.—Dr. J. Pohl-Pincus, of Berlin, yet a small residuum remains of cases of great pain, has recently in a brochure entitled "Polarised Light such as sometimes accompanies wandering spleens, as a means of recognising Irritable Conditions of the and sometimes of great danger, as in cystic disease, Nerves of the Scalp," announced that by an examinain which the advances of abdominal surgery offer us tion of the hair roots by polarised light peculiar some hopes of permanent relief.—British Medical changes may be observed whenever the patient suffers Journal, April 17, 1886.

account of the first successful case out of twelve op-blood, human or animal, consists partly in the sim-

from physical irritation or mental excitement. This statement is the result of investigations which have Intravenous Saline Injection in Post-Partum now been going on for twenty-five years, and the Hæmorrhagie.—The value of intravenous saline in-jection in metrorrhagia is warmly advocated by Dr. uniformily confirmed those made earlier. The hair F. Weber in the St. Petersburger medicinische bulbs are divided into three groups, as follows: Group Wochenschrift. Its superiority over transfusion of A: If, in healthy conditions of the body and mind,

the hairs that fall out daily are examined microscop- it fails to produce sleep; its use must then be disconthe hars that fail out daily are examined microscopically by polarized light, the enlarged bulbous end of tinued during some days. The earlier and the sounder the root will show a white contour, and a yellowish the sleep resulting from its influence, the sooner is or brownish-red centre. Group B: In all irritable that influence exhausted." MM. Mairet and Combeconditions of any organ, also in emotional disturbinates physiological researches on the action of ureances of moderate grade, without any apparent bodily than, published in the Comptes Rendus de la Société disease, the bulbous end of the hair root increases in de Biologie, March 20, 1886, indicate that this sublength and breadth (in proportion to the irritation), stance acts directly on the nervous system.—British the central part appears under polarized light of a Medical Journal, May 1, 1886. violet, blue, or bluish-green color, separated from the white contour by bands of yellow and red. Group C: In higher grades of bodily disease or mental dis- DR. LEE O. ROGERS, of San Francisco, reports the turbance, the bulb becomes still larger, and the bluish following case in corroboration of the article of Dr. centre changes to green, yellow, or orange. A few Billington in the Medical Record of March 6: "Miss hairs of the B and C types are found in normal conditions, especially in those more advanced in life. F., aged 19, was sent to me for advice, and gave the following history: She leads an active life when at Dr. Pincus gives thirty one cases showing the effects home, spending much time in the open air. In July, of painful disease, but more especially of depressing 1884, she came to a town adjacent to this city on a emotions, upon the appearance of the hair root, visit to friends. She began shortly after to grow The conclusion to be derived from these researches 'stout,' her abdomen particularly becoming promiis that bodily disease or mental excitement causes nent. Her menses disappeared entirely after the circulatory disturbances, and in consequence a change period in July, previous to which she had always been in the normal nutrition and pigmentation of the hair. perfectly regular. In March, 1885, she was sent to This is only in accordance with previous observation, me by her hostess, who thought her pregnant, for and the chief merit of Dr. Pincus's plan lies in his the purpose of being kept in the city and confined. obtaining a means by which very slight and temporary. The girl seemed to be remarkably healthy and was changes in tissue growth can be detected and approxivery 'fat,' and she proved, upon physical examination,

emy of Sciences. "We have administered urethan some vomiting occurred during the administration of 300 times, to thirty-seven insane patients, with whose the medicine, but I attributed this to the fact that I form of insanity we were acquainted. The doses gave the tablets on an empty stomach, as I accepted varied from ½ gramme to 5 grammes, given in twenty- Bartholow's theory of the action of the drug. On the four hours. When we administered urethan to insane fourth day of the administration of the permanganate patients, with whose symptoms and condition we the menses appeared and lasted four days, after which were not thoroughly acquainted, it was given to them the patient was sent to her home. She was instructed several times. The mental affections of the patients to inform me if her menses failed to appear on time verted, 3; insanity, consecutive to mania or lypemania, 9; insanity, consecutive to atheromasia, 3; paralytic madness, 7. In paralytic insanity, and insanity from atheromasia, strong doses of urethan did after operations for anal fistula in rural districts where not have any hypnotic effect. In the other forms there was no hospital accommodation, and where the influence, but quickly falls asleep again. Sleep from made into the gut, the soft tissue between the sinuses even though it be given during fifteen days. From 2 sutures. Opinm was given, and in a week's time the to 5 grammes produce sleep, but not smaller doses; if dressings were removed and the wound was found to 5 grammes be given as a first dose, and fail, it should have healed perfectly by first intention—Lancet, not be continued. Its action is generally quick; April 17, 1886. some times two or three hours elapse before sleep results. Its action is not lasting; after two or three days, or six or seven days, according to the patient,

PERMANGANATE OF POTASH IN AMENORRHIEA.mately measured.—Lancet, May 1, 1886.

to be a virgin. I immediately put her upon potassium permanganate, a 2-grain compressed tablet, four URETHAN.—MM. MAIRET and COMBEMALE have addressed the following communication to the Acad-by a large gobletful of water. Much nausea and

enumerated, the effect varied according to the exhygienic conditions were bad, it is often difficult to cited state of the patient; when this is very intense, get the wounds to heal by second intention, deterthe drug does not have any hypnotic effect, but ap- mined to make an attempt to obtain union by first pears to increase the excitement. In less excited intention by means of sutures. A boy of 14 with an conditions, urethan produces sleep, which is calm, anal fistula was operated upon in this manner; the regular, and free from nightmares; the patient wakes sinus was found to be not single, but complicated up easily from a slight noise, or any other disturbing with two lateral sinuses. After the incision had been urethan generally lasts from five to seven hours, and and the granulations were all scraped away with a is not followed by any disagreeable sensation. Nu-trition does not appear to be affected by urethan, brought together by a deep and a superficial row of THE

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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#### ANTIPYRIN IN INFANTILE THERAPEUTICS.

eration.

fall of the temperature the bronchial and pulmonary gestion of a dose varying from 1 to 2 grams. phenomena were rapidly ameliorated. In another Guttmann and others believe that antipyrin and case of bronchitis with impaludism the rectal tempera- kairin have no effect on intermittent fever, and the

case, that of a child two months old, the temperature fell 2 C. in 30 minutes, and the child recovered, though it was suffering with whooping cough, bronchopneumonia, and pernicious fever. These are three cases from nine records. They all show that young children easily bear the administration of antipyrin, and that large doses may be administered with comparative impunity; and Moncorvo declares that the action of antipyrin is much superior to that of quinine administered subcutaneously. In some of the cases, in fact, quinine failed completely.

Dr. Moncorvo is enthusiastic over the action of antipyrin in cases of pulmonary tuberculosis. The defervescence, sometimes very rapid, which follows the administration of this remedy, always causes a considerable calm. The appetite returns; the insomnia and agitation, so frequent at night in the little patients, is followed by tranquil sleep, which in a great measure contributes to the improvement in the general state. If it be true that the action of antipy-We have recently received from Dr. Moncorvo, rin is transitory, it at least possesses the very great the well-known Brazilian clinician, a copy of his latest advantage that it may be administered for a long time brochure, "De L'Antipyrine dans la Thérapeutique without fear that it will accumulate in the organism, Infantile," from the press of O. Berthier, of Paris. and that it will have no serious effects on the diges-Dr. Moncorvo has already contributed several valuative apparatus or the nervous system. One very ble papers on the action of the new antiperiodics and striking circumstance in connection with the use of antipyretics, the most notable being one "De la antipyrin in these little patients, is the marked modi-Coqueluche et de son Traitement par la Résorcine." fication of the congestive pulmonary phenomena He is known as a most careful observer and a correct which so often accompany the evolution of the malady; interpreter of facts, and whatever comes from his pen and the frequency of this modification when the medimay be received as entitled to the highest consid- cine is properly administered leaves scarcely a doubt as to the favorable action of antipyrin on the pul-The work before us is a well printed pamphlet of monary circulation. This view is supported by that 156 octavo pages, divided into four chapters, the first of Cahn, that antipyrin acts in pneumonia not only chapter being chiefly historical. Dr. Moncorvo has as an antipyretic, but that it has a direct action on used antipyrin in bronchitis, broncho-pneumonia, the pneumonic process. Moncorvo states that even tuberculosis, acute impaludism, in rheumatic fever, when so much as 2 grams of antipyrin was adminisand in grave cases of fever of suppuration. The tered in twenty-four hours he has not seen the excases in which it has been used number more than cessive sweats which have been mentioned, and that one hundred. In the first case recorded, one of acute he has altogether dispensed with the use of agaricine, impaludism with acute bronchitis, a child only five as devised by Norden, or of atropia, as proposed by months old, who easily bore a dose of 5 grms. and von Hoffer. He believes that his experience authora half of antipyrin in five days. The rectal tempera-lizes him to say that antipyrin administered to children ture, which for the first four days had been between in the course of the febrile manifestation of pulmon-39.5 C. and 40.6 in spite of the use of sulphate of ary on visceral tuberculosis acts admirably by causing quinine, commenced to fall almost immediately after a defervescence, which is maintained for several hours, the administration of antipyrin, and continued to fall and sometimes even for a whole day, without the for four days. On the first day it fell 2.4 C, in an production of any untoward result. In some cases hour and a half, after a dose of 50 centig. With the the defervescence is almost mathematical after the in-

ture fell 4.5 C. within one hour and a half. In a third question as to their value in impaludism may be re-

garded as still sub judice. The opinion of Moncorvo dose given if the temperature be still high. Genercording to the nature of the fever; it may be admit- the drug are as follows:

may be regarded as of exceptional value in this ques- ally in one or two hours the temperature falls one, tion, for there can be no question as to his facilities two or three degrees, though he has not given more for observing malarial fevers in all forms and stages. than 3 grams in this time. He has had no cases He says: I have been forced by the evidence to of collapse from antipyrin, and the only inconvenience regard antipyrin as of powerful utility when it is as- that he has noticed is the occasional vomiting, which sociated with various salts of quinine. I am fully in he says is no more frequent in children after taking accord with Guttmann, Huchard and others when antipyrin than after the ingestion of other drugs. It they say that antipyrin has no specific action on the may be administered to children either by the mouth, germ producing paludal intoxication. I consider the rectum, or subcutaneously. In the first instance it is hypothesis raised by Laveran as entirely admissible: invariably given in aqueous solution, aromatized with that quinine cures malarial fever by acting directly on mint or anise. If after taking it some time the stomthe microgerms existing in the blood. Antipyrin may ach of the child rejects it, the syrup of currant or be regarded as having a parallel germicidal property; gooseberry will usually mask the taste completely. it cannot replace quinine, but it has the undeniable Its great solubility precludes the necessity for a large property of subtracting heat or of abating the high volume of the vehicle. When it is thought proper temperatures of grave paludal fevers, with a rapidity to give it by rectal injection it is well to precede this evidently superior to that of quinine, while by the by an injection of a 2 or 5 per cent. solution of mufree diaphoresis which it causes it opens a large por-riate of cocaine, and then give the antipyrin within tal for the elimination of the toxic agent. Further- four or five minutes. The experience of Huchard more, by causing free defervescence, without com- that when given hypodermatically the action on the promising the forces of the organism already enfeebled, temperature is less marked is not confirmed by Monantipyrin creates a condition very favorable for the corvo's experience, nor is there, according to him, absorption of quinine. The gravity of the case is any objection whatever to giving the drug in this not to be judged in all cases by the height of the manner; and he has so given it to the youngest chiltemperature, since the value of this sign varies ac- dren. The conclusions which he draws in regard to

ted that the exaggerated combustion of which hyperthermia is the expression causes grave regressive most mathematical regularity of action, as well as on disorders of the viscera in exposing the organism to account of its absolute harmlessness in moderate doses. a very great danger. In a general way, then, and antipyrin is the most powerful and the least dangerparticularly in cases of children, it is always well to ous of the antipyretic agents employed to-day in take into consideration the thermic element in the infantile therapentics. 2. When given in the course of treatment of febrile affections. The ideal of the specific or non-specific inflammatory affections of the therapeutics of malarial fever will be realized by an respiratory apparatus the defervescence is, almost agent which will possess the property of rapidly without exception, very rapid, more or less lasting, lowering the temperature, while acting simultaneously and causes at the same time an amelioration of the on the germ producing the disease. But while await- general state. In tuberculous subjects the continuing such an agent, he thinks, we cannot do better ous administration of this drug often causes a very than to employ antipyrin and quinine successively. favorable modification of general nutrition, on As regards the dose and methods of administra- account of a reëstablishment of appetite, the disaption, Dr. Moncorvo says that while our German con-pearance of insomnia, and at the same time a notable frères have given too large doses to adults, their amelioration of the cough. 3. In the treatment of experience has made many fearful of moderate doses acute impaludism, antipyrin is very efficacious, confor children. When he first began to use it he gave trary to what has been affirmed by almost all observdoses of 20 or 25 centig., but gradually recognized ers. Without any demonstrated specific action on that children could tolerate and needed larger doses, the germs of malarial intoxication, it answers in and that children are much more tolerant of the drug benign and transient cases by its antithermic action than adults. Half an hour after the first dose of 25 and frank elimination through the skin. In severe or 50 centig, or 1 gram had been given the tempera- cases it is of great service by facilitating a more ture is taken in the hand, and the next dose is gradu-prompt and more efficacious absorption of salts of ated according to the fall noted. In another half quinine. It is thus a powerful adjuvant to quinine hour the temperature is again taken, and another by preventing intermittences, so that the maximum temperatures are lower. 4. In the treatment of some Alfred Swaine Taylor, Thomas Stevenson, and Sir cases of acute rheumatism, and in whatever concerns James Paget, could but have an interesting history. the febrile element in these cases, its action appears. Very much of this written history is a record of trials to be very analogous to that of salicylate of soda. 5. and sorrows, some of which must come to everyone, In several cases of surgical affections accompanied and of difficulties overcome. Perhaps one of the by a commencing septicæmia, antipyrin caused most remarkable facts in the life of Dr. Warren is remarkable modifications of general nutrition by the that he did not study the profession of his first choice continued subtraction of heat, which was very high -law- but was induced by his father to study mediin young children. 6. Defervescence caused by the cine. This is chiefly remarkable on account of his drug is produced with mathematical regularity in eminently successful career as a physician. children of every age, and varies from six to twentyfour hours. The succeeding ascent of temperature the reading of which will make an evening pass more takes place in an insensible manner, contrary to quickly or more pleasantly, and the chief regret on what is seen when carbolic acid, kairin, and thallin parting with it is that it is not longer. For those who are used. 7. It has already been said that no serious are inclined to believe that there is nothing good in accidents have been caused by the drug in Moncor-America, who buy their watches in Geneva, their vo's hands. 8. Antipyrin has a manifest action on umbrellas in Paris, and their ill-fitting clothes in Lonthe circulatory apparatus, slowing the heart and the don, we particularly recommend the following, from pulse. Its influence on vascular tension has not the last letter:-- "Before bidding you adieu, I must been determined. The diminution in the frequency say this much: The longer I have resided abroad, the of the pulse and the lowering of the temperature are more intensely American have I become, and the rarely ever proportional. 9. It has scarcely any greater has grown my love and appreciation of my appreciable modifying action on respiration. 10. native land. Other lands may possess their treasures The urinary secretion is somewhat diminished, but of art, their marvels of luxury, their triumphs of archthis is usually proportional to the abundance of the itecture, and all that is calculated to captivate the sweat. Some examinations have shown a decrease imagination and ravish the senses, but for the truest in the amount of urea. It does not cause albumin-solution of the problem of human existence, the uria, and has been known to check it.

#### A DOCTOR'S EXPERIENCES IN THREE CONTINENTS.

ingly egotistic book of some six hundred pages by nently blessed of Heaven. Call me an enthusiast if Dr. EDWARD WARREN-BEY. It is in a series of let- you will, but for me her skies are the brightest, her ters to Dr. John Morris, of Baltimore, and being in mountains the grandest, her rivers the broadest, her the form of letters to an intimate friend the frequent fields the greenest, her women the loveliest, her men use of the first personal pronoun, so far from being the noblest, her history the proudest, and all that at all disagreeable, adds to the interest of the vol- relates to her the best of all the world besides. ume. The letters are not in the form of a diary, but Elsewhere her sons may be content to linger for a facts, dates and comments are given in a manner season, but to them she is the only land in which which is at the same time connected and discon- they can ever realize the idea of home, or feel that nected. The personal memoirs of distinguished men they are aught else than aliens and sojourners." are always of interest, particularly when well written, and it is apparent from these letters that Dr. Warren's fluency of speech is not greater than his readiness with his pen.

the late war, who has been an active practitioner in says: "But the organization and management are two sections of this country, chief surgeon of the definitely settled, and we have no desire now to ham-Egyptian War Department, and for some years an per its future work. We do not think that hereafter active practitioner in Paris, the friend of the much the International Medical Congress will meet with lamented Otis and Gross, of Charcot, Zeb Vance, any aggressive opposition or criticism. Its managers Ismail Pasha, Landolt, Abbate-Bey, General Mott, have chosen their course, and we shall be glad, for

Taken altogether, we do not know of any book grandest victories of human skill over the laws of nature, the most fortuitous combination of those conditions which constitute society, and the perfection of a governmental system-that which governs the least Such is the title of a most interesting and charm- and protects the most-America is the land preëmi-

#### A RATIONAL CONCLUSION.

The editor of the Medical Record, of May 15, in speaking of the organization of the Executive Com-A man who took an active part in the surgery of mittee of the Ninth International Medical Congress tlemen at the Congress, you will be made warmly publication. welcome by all Americans, and you will hear no quarrelling while you are in the States."

by the result.

#### A NEW COLLEGE OF PHARMACY.

Some two months ago a number of prominent pharmacists, who were active members of the Chicago College of Pharmacy, withdrew from this organization, and five of them have founded a new school, known as the Illinois College of Pharmacy. The government of the Chicago College of Pharmacy is in the hands of a College Association, composed almost entirely of the younger alumni, who sometimes have been capable of committing very strange blunders, such as electing young and inexperienced graduates to the Board of Trustees of the AMERICAN CLIMATOLOGICAL ASSOCIATION. college. After trying in vain to give to the college a more stable and rational organization, the oldest and best known of the trustees withdrew, leaving the school entirely in the hands of the younger element.

The Illinois College of Pharmacy is governed by a board of five trustees: Wm. Bodemann, D. R. Dyche, H. S. Maynard, T. H. Patterson and E. H. stability, as all are well known throughout the West.

Professors Oscar Oldberg and J. H. Long withdrew from the faculty of the old school and have been elected to the Chairs of Pharmacy and Chemistry in the new. The new school will be the Pharmaceutical Department of the Northwestern University.

IN MEMORY OF PROFESSOR AUSTIN FLINT.-During the session of the Executive Committee of the Ninth International Medical Congress, May 3, 1886, appropriate resolutions were unanimously adopted expressing their high appreciation of his character and noble life work, and their deep regret for the loss of the late President of the Congress.

A just tribute was also paid to his memory by the President of the American Medical Association in his Annual Address, on the first day of the meeting of came difficult, and as a higher altitude was reached,

the sake of our country's reputation, to see them that body in St. Louis, May 4, 1886; and another successful in it." In another paragraph, the same was contained in the report of the chairman of the editor says: "Still, we say to foreign delegates, You Standing Committee on Necrology, which was called will meet a large number of able and hospitable gen- for on the last day of the session and referred for

PRIZES OF THE AMERICAN MEDICAL ASSOCIATION. Kindly sentiments and assurances of future peace, -We have received two anonymous letters asking even though late in finding expression, are none the for information regarding the prizes of the Associaless welcome. And if the Executive Committee of tion and the regulations governing their award. We the Congress is to be permitted to carry forward its think the only action taken by the Association conresponsible work without further opposition, "our cerning prizes during the last two years can be found country's reputation" will be abundantly vindicated in The Journal of the American Medical Asso-CIATION, Volume V, page 531, number for November 7, 1885, and relates to prizes of honor only.

> NOT VERY ACCURATE.—The Medical News of Philadelphia, in endeavoring to give the "officers of the International Medical Congress," in its issue for May 15 inst., commits at least jour errors of commission and three of omission-enough certainly for one half column.

### SOCIETY PROCEEDINGS.

Third Annual Session held at the Hall of the College of Physicians, Philadelphia, May 10 and 11. 1886.

> Monday, May 10, First Day. MORNING SESSION.

The meeting was called to order by The Presi-Sargent. Their names are a sufficient guaranty of DENT, WILLIAM PEPPER, M.D., LL.D., of Philadelphia.

> THE PRESIDENT opened the session with an address on

> THE CAUSES AND DISTRIBUTION OF CONSUMPTION IN PENNSYLVANIA,

> being a preliminary report of investigation still being prosecuted.

Dr. A. L. Loomis, of New York read a paper on

THE EFFECT OF HIGH ALTITUDES ON CARDIAC DISEASE.

In 1880, while in the Adirondacks, the author was requested to see a gentleman who was thought to be dying. The patient aged 40 years, was found gasping for breath, cyanosed, with no apparent radial pulse, and bathed with profuse perspiration. Under the hypodermic use of digitalis, morphia and brandy he improved. The following day it was learned that he had left New York apparently well. When he reached an elevation of one thousand feet the breathing bethe difficult was increased and was accompanied by ment, or by rapidly ascending a long flight of stairs. cardiac palpitation and a sense of oppression in the epigastrium. When he reached St. Regis lake at an paper, entitled elevation of two thousand feet he appeared to be dying. Physical examination showed well-marked A PRELIMINARY ACCOUNT IN REGARD TO CIRCULAdilatation of both ventricles, with a loud systolic murmur heard over the præcordium and transmitted a little to the left. At the end of three days he returned to New York. As he reached lower levels the difficulty which had been chloralized. It was found that: of breathing diminished and when he reached New York he could walk on a level. The irregular heart action, however, continued, and the feet soon became cedematous and he died six weeks later with general anasarca and heart insufficiency. No autopsy was made. The patient had never presented any evidence of cardiac disease prior to his trip to the mountains.

The speaker had seen in all twenty-six similar cases, the histories of five of which were given, one

of which follows:

Mrs. S., aged 43, had mitral insufficiency for over ten years, but never exhibited any cardiac symptoms. She went to Colorado. When she reached an elevation of four thousand feet she was suddenly seized with extreme dyspnœa and hæmorrhage. There was palpitation of the heart and constriction of the chest. reached a lower level she improved. Physical examination revealed extreme dilatation of both ventricles, complete cardiac diastolism, indistinct apex beat, crepitation over the base of both lungs with feeble or absent respiratory murmur. The patient died four weeks after her return. The autopsy showed both ventricles much dilated, old thickening and insufficiency of the mitral valve, some interstitial myocarditis and degeneration of the muscular fibre show themselves. In some cases, there is more forci-of the heart walls. The right lung was the seat of ble dyspnœic breathing and, in some dyspnæic conpneumonia and old infarctions. All the other viscera were in a state of extreme venous congestion.

cases coming under his observation, the ventricular dilatation was unquestionably the cause of the sudden development of distressing symptoms, and that the commencement of the fatal issue seemed to be directly due to the effects on the cardiac circulation of a change from a lower to a higher altitude.

Two important factors which lead to permanent cardiac insufficiency, are, first, the condition of pulmonary distension consequent upon rarefaction of

the circulating blood.

If the explanation of the effects of high altitude upon the cardiac circulation be accepted, the risks the lungs are in communication with the external air, which one with even slight cardiac insufficiency runs causes a considerable transient rise of blood pres-by passing from a lower to a higher altitude is cer- sure. This is probably mainly due to the forcing of tainly very great, and if the insufficiency is extensive, the blood from the cutaneous vessels, but there has such changes become immediately dangerous. It not yet been sufficient time to thoroughly investigate must be remembered that cardiac insufficiency may, this point. exist in those who give no evidence of it.

the muscular element of the first sound of the heart, slows the pulse as the arterial pressure rises. This is in determining the condition of the muscle walls. probably due to the excitation of the cardio-inhibitory Clinical experience had also convinced him that it centre by increased intra-cranial blood-pressure, was unsafe for one to make such change, whose car- Further experiments are, however necessary before diac rhythm was greatly disturbed by nervous excite- this can be positively stated.

Dr. Frank Donaldson, of Baltimore, read a

TORY AND RESPIRATORY CHANGES OBSERVED IN ANIMALS PLACED IN THE PNEUMATIC CABINET.

The experiments had been performed on rabbits

- 1. When the animal is breathing air from outside of the cabinet, rarefaction of air within the cabinet causes a marked fall of general arterial pressure; but has no influence on the pulse rate. The fall of pressure lasts only a short time (ten or twenty seconds) and is often followed by a temporary rise above the normal.
- 2. This fall of systemic arterial pressure depends on two factors,-greater flow of blood to the skin when the air around the animal is rarefied and greater accumulation of blood in the lungs when they are distended.
- 3. Of these two factors, accumulation of blood in the lungs is the more effective, for if the animal breathes air from the cabinet, and not from the outside, rarefaction of the air within the cabinet (in this The following day she started on her return. As she case, accompanied by no special expansion of the thorax) has but a trivial effect in lowering arterial
  - 4. When the animal is breathing external air, rarefaction of the air within the cabinet usually has no effect upon the respiratory rate, nor upon the extent of individual respiratory acts, unless the fall of blood pressure be considerable. If it be considerable, symptoms of anæmia of the medulla oblongata vulsions similar to those which occur when an animal is bled to death, and due to the same cause, viz., Dr. Loomis then went on to say that in all the deficient blood flowing through the respiratory
    - 5. The rapid recovery of general arterial pressure while the animal is still in a rarefied atmosphere, but breathing external air, is probably due to excitation of the vaso-motor centre, which as is well known is excited whenever the blood power is defective.

6. The brain enclosed in a rigid box which is practically unaffected by variations in the atmospheric pressure, has its circulation more disturbed in the atmosphere, and second the resultant condition of the pneumatic cabinet than any other organ with the

exception of the lungs.

7. Compression of the air within the cabinet while

8. Compression of air within the cabinet while Clinically the speaker relied upon what is termed the lungs are in communication with the external air, to check inspiration.

of organic lesion under such circumstances produces very serious symptoms, even preventing the patient

from assuming the erect posture.

DR. E. D. HUDSON, of New York, thought that heart disease was not prevalent in high altitudes, and that such persons were better able to withstand fatigue service. than those of a lower level. The recognition of the importance of the point to which Dr. Loomis has age of cases in which benefit had been accomplished: called attention would no doubt result in the saving of many lives. Still, when necessary, we should not benefit. be deterred from sending patients to high altitudes, taking care that sufficient time is spent in the transi- very slight, moderate or temporary benefit. tion so that the circulation may gradually adapt itself to the change in altitude.

Dr. Loomis said that there was no danger to a good heart whose nervous condition was normal. If such individuals suffer, it is only temporarily. After fifty years of age, the condition of the heart walls is This high altitude is only one of the causes of over-distention of the cardiac cavities. He did not believe that it was safe for any man with arterial degeneration or dilatation of the vertricles to take the chances of going into a high altitude or taxing his his heart beyond a certain limit.

#### EVENING SESSION.

DR. HERBERT F. WILLIAMS, of New York, read A CLINICAL REPORT OF CASES TREATED BY PNEU-MATIC DIFFERENTIATION.

with the assistance of Mr. Ketchum, of New York, the inventor of the apparatus, a demonstration of the working of the pneumatic cabinet was given. The speaker then reported forty-five cases in addition to those previously reported, in which he had used the cabinet as a method of treatment. Sixteen cases were reported in detail.

DR. VINCENT Y. BOWDITCH, of Boston, reported a the differentiation. TEN MONTHS' EXPERIENCE WITH PNEUMATIC DIFFERENTIATION.

The speaker endeavored to give the clinical results of the treatment in thirty-seven cases since June 30, Pulmonary phthisis, in its tubercular and non-tubercular forms; bronchitis in its acute and chronic forms, with and without emphysema or asthma; and retraction of the lung from long standing pleuritic effusions, are the diseases which he had first is that the effect of removing a slight degree of treated in the pneumatic cabinet. His experience pressure from the periphery of the body is radically

q. In certain cases, when the air within the cabi- complish thus far such brilliant results as some others net is rarefied and the animal is breathing external had claimed, yet he felt convinced of the very marked air, the respiratory movements cease altogether for beneficial effect of the cabinet in many cases where several seconds. As to the cause of this physiologi- other means had failed to give relief, and of its curacal apnea, we are not yet ready to form an opinion. tive power in one case of incipient tubercular trouble, It may be due to extra accumulation of air in the and he looked forward with hope to what may be alveoli of the lung, or to distension of the lungs, done in the future with this new method of treatment. exciting those fibres of the pneumogastric which tend The speaker said his chief desire was that the profession should investigate the matter thoroughly and THE PRESIDENT had seen not only in the class with fairness, and publish their results, for by this of cases described by Dr. Loomis, but also in cases means only can a just estimate of the merits of the of cardiac disease originating in high altitudes, the treatment be established. He felt that it should be grave consequences which followed. A small amount entrusted only to a physician's care or to that of a reliable assistant, and that if placed in hospitals the most accurate methods of recording cases should be insisted upon before allowing the cabinets to be used. Carelessness of investigation in the present stage of its existence might do infinite harm to a method the tonicity of the heart was really increased so that which may prove, when properly used, of infinite

The following table was given showing the percent-19+ per cent. of all the cases treated received no

23+ per cent. of all the cases treated received

46+ per cent. of all the cases treated received marked benefit (for varying periods). 7+ per cent. of all the cases treated received re-

markable benefit. 3+ per cent. (one case of incipient tuberculosis)

was cured. Dr. I. H. Platt, of Brooklyn, read a paper on

THE PHYSICS AND PHYSIOLOGICAL ACTION OF PNEU-MATIC DIFFERENTIATION

Pneumatic differentiation is the process by which the air surrounding the body and that entering the lungs is rendered of different densities. There are three forms, which for convenience may be designated positive, negative and alternative. He proposed to consider chiefly positive differentiation, which is the form in which the air surrounding the body is of less pressure than that entering the lungs. The apparatus introduced to the profession by Dr. Williams, and known as the pneumatic cabinet, is the most convenient for applying this treatment. As the difference in pressure used is very slight, seldom exceeding that indicated by a fall of one inch of the mercurial column, the absolute change in air pressure is an insignificant factor, the essential element being

The effect of reduced air pressure upon the periphery of the body is to increase the expansion of the thorax in inspiration and to diminish its contraction in expiration, consequently to increase the amount of residual air. By the increased pressure in the lungs it will tend to exsanguinate them and to raise the arterial blood pressure in the general circulation.

I'wo of the claims put forward by Dr. Williams and Mr. Ketchum he believed to be unfounded. The was such that although he had been unable to ac-different from that of increasing the pressure of the

air entering the lungs, the former acting as a vis a features of typhoid fever. Some of the reasons for fronte, the latter as a vis a tergo. One of the most believing these cases to be an irregular or mild type elementary principles of physics teaches that suction of typhoid fever are that such cases are usually seen is not a force operating from in front, but is merely at the season of the year when typhoid fever is most removing the pressure from one side of a body and prevalent; they occur most commonly under condiallowing the undiminished pressure to act upon the tions favorable to the development of typhoid fever; other side. It makes no difference whether pressure not infrequently cases will present some characteris taken from the outside of the thorax or added to istic feature of typhoid, leaving no doubt as to the the inside; in either case it is the unbalanced press-diagnosis. In the high altitudes where mountain ure which causes the increased expansion. The other fever is said to occur, a large proportion of the cases proposition which he combats is that the spray or of undoubted typhoid pursue a remarkably mild vapor used in conjunction with the differential pro- course. Dr. Dougan concluded with a protest cess can be carried further into the air passages or against admitting mountain fever as a specific disease, more thoroughly condensed upon them than a spray until its right to such a position had been proven by or vapor could be under normal conditions. They clinical and pathological researches. cannot be carried so far, for the reason the residual air is increased, and consequently the inspired air cases which had been diagnosed as mountain fever. which carries the vapor or spray cannot penetrate so At some point in the disease, all these cases had stances is condensed in the lungs during the differen- patients died suddenly at the end of three weeks, but tial process by the compression consequent upon the no autopsy was made; in one case there was a doubtcommencement of the expiratory act. This is im-ful eruption; one of the cases had epistaxis in the possible, first, because compression only acts to condense a saturated vapor, and the air passages cannot marked in all cases. Dr. Curtin considered these be saturated with the vapor of a medicinal substance; cases to be typhoid or typho-malarial in character. and secondly, because no greater compression is pro Sometimes the cases belonged, in all probability, to duced at the commencement of the expiration under the class termed simple continued fever. The diagthe influence of differential pressure than under other nosis of mountain fever was doubtless, in large part, circumstances. Such compression as does occur is the result of incompetency on the part of the observdue to the resistance offered by friction of the bron- ers, and the use of the term is continued largely as a chial tubes and by the narrow opening of the glottis, result of fashion. and it is impossible that these should be affected by the differential pressure.

He believes that such benefit as results from the use of the cabinet is due mainly to the reduction of titled, congestion in the lungs by the air pressure within them and by the increased expansion and movement of the lungs favoring their greater action and modifying their nutrition.

> TUESDAY, MAY 11, SECOND DAY. MORNING SESSION.

FIRST VICE-PRESIDENT, DR. FRANK DONALDSON, OF BALTIMORE, IN THE CHAIR.

The report of the Committee on Health Resorts was received and ordered published in the Transac-

DR. ROLAND O. CURTIN, of Philadelphia, read a paper on

#### ROCKY MOUNTAIN FEVER.

The speaker in the first place referred to a com- a more rigid medical discipline. munication received from Dr. D. O. Dougan, of Denver, Colorado, bearing upon this subject. The be reorganized. experience of Dr. Dougan had led him to regard all cases of mountain fever as belonging to one or an- various places were then read: other of the well known, already classified varieties. The cases, however, present variations from the usual cuse; The Southern Adirondacks, by Edward T. course of the fevers to which we would assign them. Bruen, M.D., of Philadelphia; The Climate of El Some of the cases are ephemeral in character and Paso, Tevas, by Dr. E. W. Schauffler, of Kansas difficult of classification. The fever especially desig- City; Southern Pine Park, a New Health Resort in nated by the name mountain fever presents many North Carolina, by Dr. A. N. Bell.

DR. CURTIN had seen, in Wyoming Territory, four It is claimed that the vapor of medicinal sub-diarrhoea, and in one it was continuous. One of the beginning of the illness; tympanites was more or less

> The opinion of other investigators was cited, all of whom expressed views similar to those given above.

> Dr. C. C. Rice, of New York, read a paper en-

HOW THE THERAPEUTIC VALUE OF OUR MINERAL WATERS MAY BE INCREASED.

The following conclusions were advanced:

1. A physician should make an analysis of our mineral springs.

2. The medicinal value of the waters should be tested by clinical investigation, and the conclusions published for the benefit of the profession.

3. If the waters are found to present marked merit, the physician should interest himself in developing the springs, improving the baths, etc.

Physicians, in sending patients to the springs, should be more careful to select the proper water, and should send with the patient the diagnosis and history of the condition for the benefit of the physician at the baths.

5. The patient, while at the baths, should be under

6. The social life of our watering places should

The following papers, describing the climate of

The Climate of Mexico, by Dr. Didama, of Syra-

#### AFTERNOON SESSION.

The following were elected

OFFICERS FOR THE ENSUING YEAR.

President-Dr. Frank Donaldson, Baltimore. First Vice-President-Dr. V. Y. Bowditch, Boston. Second Vice-President-Dr. Roland G. Curtin, Philadelphia.

Secretary and Treasurer-Dr. J. B. Walker, Philadelphia.

Additional Member of Council-Dr. F. C. Shattuck, Boston.

Elected to Membership-Dr. F. Donaldson, Jr., Baltimore; Dr. G. R. Butler, Brooklyn; Dr. W. Matthews, U. S. A.; and Dr. J. H. Musser, Philadelphia.

The following memorial was presented by Dr. J. EWING MEARS, Secretary of a Special Committee of the American Surgical Association, appointed to consider the proposition with reference to the establishment of a

CONGRESS OF AMERICAN PHYSICIANS AND SURGEONS.

Washington, D. C., April 30, 1886.

To the President of the American Climatological Association:

In view of the fact that there are a number of special medical organizations now in existence in the United States, each having for its aim and attainment the advancement of the special department of medi-Therefore, it appears necessary that some arrange- elected or appointed as may hereafter be determined ment should be made with the different societies as upon by the associations in convention. to a uniform time and place of holding their sessions, necessary loss of time.

partments of the profession in America.

tions into a Congress based upon the outlines which are now to be explained: American Surgical Association; American Ophthalmological Association; meeting, each society (this year) could adjourn to

Climatological Association, and American Clinical and Pathological Association. These associations to be united under the name and style of "The Congress of American Physicians and Surgeons."

The plan of organization hereby submitted, and subject to any alterations or amendments which may be deemed wise and proper, is that each society will preserve its own name, constitution and by-laws; elect its own officers and fellows; hold its own sessions apart from the others at the time and place of meeting; publish its own transactions, and do all other acts of which, by virtue of its constitution and by-laws, it has the inherent right to do, thus preserv-

ing its own autonomy. The Congress to be composed of these special societies when in convention, and its meetings to be held annually in the city of Washington-the most appropriate place for the assembling of such an or-The constitution and by-laws of the ganization. Congress to be formed by a committee composed of a like number chosen from each separate society. The opening session of each annual meeting of the Congress to be devoted to such general business as may pertain to the interest of the association as a whole. The Congress to be presided over by a President, elected annually, and who shall deliver the opening address upon the first day of the session. The manner of choosing the President to be as follows: By a nominating committee composed of one member elected from each special association, or cine for which it was organized; and since the mem- otherwise, as may be determined upon by the special bers of said special societies are of the representative society itself; this committee nominating one or more men of the profession in America, many of whom are, candidates for the office of President, whose election at the same time, fellows or members of several of is to be by ballot on the last day of the annual sesthese special societies, which double membership, if sion, and in a convention of all the societies assemit may be so expressed, necessitates them—if desir-bled. The Presidents of the special societies to ous of attending two or more of the meetings of these become ex officio Vice-Presidents of the Congress. societies the same year-to make as many separate Membership in the Congress to be acquired only by trips from home and often with much loss of time to virtue of fellowship in one or another of the special themselves and inconvenience to their patients associations. Other officers of the Congress to be

These are the outlines of a union proposed for the so that those members who wish to attend the meet- consideration of the members of this Association, ings of more than one association may be enabled to which, if it should meet their approval, can be subdo so without useless expenditure of money or unmitted to the action of the societies which have been mentioned. It was suggested that the Chair appoint An extended correspondence, together with per- a committee of five to bring the subject before the sonal conference with many of the most prominent next special Association, which meets this spring or fellows of this and other of the associations, has discoming summer, and which, in the event of a conclosed the fact that there is a decided and growing currence of opinion on the part of said society, shall inclination to unite the various societies into a com- act in concord with their committee appointed to mon whole, whereby it would become a general or- confer with the other societies, in the order of their ganization, representative of the various special demeetings. This enlarged committee to report at a convention of all the societies, which shall be request-The plan proposed and which is offered for con-ed to hold their next annual meetings at the same sideration is to unite the following named associa- dates in the month of June, 1888, in the city of

American Otological Association, American Neuro-meet in June, 1888, leaving the date to be fixed by logical Association; American Laryngological Asso- the enlarged committee after their work of conferciation: American Gynacological Association; ence had been finished, it then being only necessary American Dermatological Association; American to apprise the Secretaries of the respective associamembers.

This proposition is the result of calm considera- and death. tion, and has been approvingly endorsed by quite a number of the representative gentlemen of the pro-titled

The plan proposed is simply to unite into one great body the already existing special societies, and it is proposed from the honest conviction that such a union will prove of inestimable benefit to them in-

dividually and collectively. The special committee appointed by the American Surgical Association to consider the above memorial, reported that it viewed with great satisfaction the perfection of a plan through which the meetings of the associations above named in the city of Washington at the same time of the year, may be accomplished, and the meeting of all the associations in general assembly on such days as may be determined, for the purpose of delivering of addresses upon general subjects in medicine, such meetings to be held without any formal organization through which the associations meeting would sacrifice their autonomy.

To accomplish these purposes, the committee of-

fers the following resolution:

Resolved, That a committee of five Fellows of this Association be appointed, which shall be authorized to confer with committees of other associations interested in the adoption of a plan of a convention as hereinbefore stated, and report upon the same at the next meeting for the action of the Association.

The resolution was adopted, and the following committee was appointed in accordance therewith:

C. H. Mastin, M.D., Mobile, Chairman.

C. T. PARKES, M.D., Chicago. I. FORD THOMPSON, M.D., Washington.

N. SENN, M.D., Milwaukee.

J. EWING MEARS, M.D., Philadelphia, Sec'y.

The proposition was approved, and it was decided to appoint a committee to be announced later in

DR. J. H. MUSSER, of Philadelphia, made some SUGGESTIONS REGARDING THE PREVENTION OF

PHTHISIS IN MILL HANDS.

He said that it was rather to prevent that state of the system which of en leads to phthisis, that he desired to make some suggestions. The suggestions more particularly referred to factory laborers. He showed that states of ill health were common in this class of artisans, and asserted that it was very largely due to an inadequate supply of food, which was improperly selected and prepared, and to carelessness in whom was seen in attention to digestion. This cause obtained more largely than bad hygienic surroundings or than the occupation itself. If this be true, the remedy proposed was to have the plan of the Willimantic Cotton Company used by all mill proprietors. That where its pulsations were plainly visible, and could company has proved by experience and careful cal- be felt by the finger. The vessel was of larger size culation that it pays them in quality and quantity of than the radial artery in the same patient, and was work done to supply milk to their boys and bouillon covered only by the mucous membrane. Dr. Farlow to their women twice daily, and that the health of described the condition of the parts in the following the operatives is promoted and their lives prolonged words. thereby. Dr. Musser trusted that the members of "The case is interesting on account of its extreme

tions, who will give notice to the various fellows and the Society could influence proprietors to adopt this plan, and thereby close one of the avenues to disease

Dr. C. L. Dana, of New York, read a paper en-

fession, both in and out of this special Association. A STATISTICAL INQUIRY REGARDING THE RELATION OF HIGH ALTITUDES TO NERVOUS DISEASES.

> The speaker presented the results of inquiries made at his request of twelve physicians living in Colorado Springs, regarding the effects of high climates on the nervous system in health and disease. The majority thought that chorea in children was more frequent there than in lower altitudes; that the climate was bad for nervous women. The high altitudes do not necessarily injure epileptics, and in anæmic cases might cause improvement. Insomnia dependent upon anæmia and mal-nutrition was benefited and generally cured. The climate has no specific influence for good upon diseases of the spinal cord, and if anything, the contrary. The speaker was of the opinion that high altitudes had a tendency to excite lithæmia and anthritism with consequent irritating effects upon the nerve centres. The best effects of the climate were seen in anæmic insomnia, neurasthenia and melancholia.

> THE PRESIDENT announced as the committee to confer with the committees of other special societies with reference to the establishment of a "Congress of American Physicians and Surgeons," Dr. A. L. Loomis, New York; Dr. F. Donaldson, Baltimore; Dr. F. C. Shattuck, Boston; Dr. E. T. Bruen, Philadelphia; and Dr. W. W. Johnson, Washington.

> It was resolved to appoint a committee of three, with Dr. C. C. Rice as chairman, to investigate The Therapeutical Properties of the Different Mineral Springs.

After passing a vote of thanks to the College of Physicians for the use of their hall, the Society adjourned sine die.

#### SUFFOLK DISTRICT MEDICAL SOCIETY.

SECTION FOR CLINICAL MEDICINE, PATHOLOGY AND HYGIENE.

Stated Meeting, April 14, 1886.

F. I. KNIGHT, M.D., CHAIRMAN.

ALBERT N. BLODGETT, M.D., SECRETARY.

Dr. J. W. Farlow exhibited a girl aged 12 years,

A LARGE ARTERY PASSING, IN A DIAGONAL DIREC-TION ACROSS THE POSTERIOR WALL OF THE PHARYNX.

rarity, and because of its bearing on the surgery of is not frequently seen on the hands, but the co-existposterior pillar of the fauces. In a service of several sebaceous follicles. years in the throat-room of the Boston Dispensary, I have never met a case before. Dr. Knight remem bers to have seen one similar case. During the week DOMESTIC CORRESPONDENCE following the appearance of the present patient, another case was observed at the same institution, but in the second case the vessel was seen and felt on the right side only. It occupied, however, the same situation. Dr. Leland saw a single case at the dispensary, about a week later, which he kindly asked me to examine with him. I find the abnormal distribution of the large vessels of the pharynx hardly mentioned in works on diseases of the throat. In anatomical works, the possibility of variation in distribution of the vascular channels is alluded to in a said or written upon this subject.

"The vessels are usually deeply situated and quite small. The vessel in the left side in the present case account of the alarming hæmorrhage. Possibly in and opium given instead of cathartics. other cases of profuse bleeding after tonsillotomy, a vessels might be found."

13 years, who was affected with

#### LUPUS ERYTHEMATOSUS.

a dead white color. On the hands, which were simiwhole dorsum of each hand was of the same livid opium in perityphlitis. and mottled hue as the face. The disease extended the child was otherwise good.

of this form of lupus is not so excessively rare. It wound, instead of the usual abscess cavity. He made

the throat. It is a case in which we may see and feel ence of the same affection upon the face is very ina large pulsating artery on each side of the back of structive as well as interesting. The disease is esthe pharynx, about a quarter of an inch inside of the sentially an inflammatory process, confined to the

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Perityphlitis-Foreign Bodies in the (Esophagus-The New York Academy of Medicine.

At the meeting of the New York Surgical Society, of which a partial report was given in The Journal of May 15, Dr. H. B. Sands read some remarks on Perityphlitis. Within the last few months, he said, a number of cases of this affection had come under cursory manner; but clinically very little has been his observation, and they had had the effect of impressing very strongly upon his mind the necessity of absolute rest in its treatment. He could recall the case of a physician suffering from perityphlitis, who feels considerably larger than the radial. In all surgi- was doing fairly well, but who, while the disease was cal operations on the back of the pharynx, such as in progress, was allowed to take several doses of caincision, or the application of the Galvano-cautery, thartic medicine, each of which only aggravated the we may see at once how important it is to bear in trouble. Finally, after a copious passage, produced mind the possibility of such a case as this, and to ex- by an enema, he became collapsed, and death soon amine carefully as to the exact position of the blood- followed. The antopsy was made by Dr. George L. vessels. If the tonsillar branch were abnormally Peabody, but no cause was found for the existing large, it would be sufficient to cause a very severe perforation of the appendix. In this case it was evihæmorrhage after tonsillotomy, or deep incision; as dent that for a time the difficulty had been confined in the case reported by Dr. Lefferts of New York, in within quite narrow limits, and it could not be doubted which a vessel was cut by the guillotine, of so large that a better chance of recovery would have been a size as to require the application of a ligature, on afforded if the patient had been kept absolutely quiet,

The second case referred to was one which he saw similar condition of enlarged or abnormally situated in consultation with Dr. A. B. Ball. The patient was over 60 years of age, and Dr. Sands was called in Dr. W. N. Bullard then presented a girl aged because the symptoms were supposed to be those of strangulated hernia. It was true that he had a hernia on the right side; but the hernial sac was found so flaccid that the present trouble could not be attri-The disease had existed one year, and was seated on buted to this. The symptoms, also, were not exactly the face and hands. The color of the skin in these those of strangulated hernia. The case was in reality parts was of a mottled hue, and on the face were a one of perityphlitis; but the patient was allowed to large number of small scars, which were somewhat get up and go down town. The result was that peribelow the level of the surrounding skin, and were of tonitis set in, and he died a short time afterwards. The post-mortem examination showed perityphlitis, larly affected, the disease appeared as large elevated with perforation of the vermiform appendix, and an nodules of a livid color, and were confined principally empty hernial sac on the right side. This case also, to the extensor surfaces of the fingers, though the he thought, emphasized the importance of rest and

In one of the other cases narrated by Dr. Sands only to a point just above the wrist, on each hand, he said that for the first time in his experience he had where it abruptly terminated. The general health of met with the accident of cutting the intestine in an operation; and that this had occurred not with standing Dr. WHITE pronounced the case a typical one, the fact that the hypodermic syringe was first resorted but not so rare as has been supposed. The disease to, with the effect of withdrawing pus. When in is much more common here than in Europe, but the operating the tumor had been arrived at, all who were small size of the present patient makes this instance present received the impression that a piece of intesseem more than usually interesting. The girl, how-tine was being dealt with, and it seemed to him perever, is 13 years old, and after this age the appearance sonally that there was a portion of the occum in the

a cut with the scissors, and the impression conveyed he related a remarkable case of gunshot injuries of to his mind was that he was cutting intestine. From the intestines which had occurred in his own hospital the opening there came pus and air, but no fæces. experience. The next day (Sunday), however, fæces made their penetrating the abscess.

recently. One of them was that of a young lad, the culty in breathing, with occasional aggravated paroxson of a physician. There were symptoms of peri-ysms; and when the case came under his observation, tonitis, in connection with perityphlitis, and after he found that there was frequent respiration, and that discussing the subject thoroughly with Dr. Sands, the the dyspnea was principally expiratory, there being father declined to have an early operation performed, but little difficulty in inspiration. Owing to the men, and vomiting; and the condition was in every of the child had been good; but there was now conway alarming. He operated, in the usual way, April siderable trouble in deglutition, and it began to fail and faces. The patient, when last seen, was con-elicit the history of any foreign body having been

valescent.

25, the patient was a lad of 14. The first symptoms had appeared just a week before, and he first saw him on Wednesday, when he thought there were signs of the infant, he was obliged to select the higher perforation on the side of the peritoneum. There operation; but when the trachea was opened, he was was marked tympanites, and he was unable to make disappointed to find that there was not the slightest out the presence of a circumscribed tumor, although improvement in the respiration. A soft catheter was Dr. A. H. Smith, who had been in attendance previ-introduced into the trachea and the branches, but no ously, said that he had discovered one when the ab- abnormality could be detected. One very curious domen was not so much distended. Dr. Sands saw thing, however, was noticed. When a canula was the case again on Saturday, when the condition was introduced into the trachea, the difficulty of respirafound to be very bad. As in the previous case, he tion was increased; but as soon as he placed his debated very carefully whether to cut in the median finger over the mouth of the canula, the breathing line, or at the side, and thought it preferable to make became easier. Fearing to keep the child, who was the incision in the latter position. Accordingly, he in very bad condition, longer under the influence of operated at 2 P.M. on Sunday, and when the layers of anæsthetics, he ordered the canula, with its orifice the abdomen were cut down upon, about half an ounce plugged, to be kept in position; his design being to of pus was seen to flow from a small opening. The keep the trachea open, and on a future occasion make abscess was doubtless in the cavity of the peritoneum, a more careful examination. The next day, however, and the case, as had been suspected, was one in pneumonia set in, and in three days death resulted. which perforation had taken place toward the serous membrane, and not one of perityphlitis amenable to normal; but a little lower than midway between the the usual operation. The patient died at 6 P.M. the cricoid cartilage and the bifurcation of the trachea same day.

of saving life.

inclined to doubt whether Dr. Sands had in reality imbedded in the tissues between the trachea and the wounded the intestine in the case in which he believed esophagus; being held in position precisely as a picthis accident to have occurred (stating that if he had ture by its frame. The ulcerative process had evidone so, he did not think that the patient would have dently been terminated by complete cicatrization. recovered so readily), Dr. Sands replied that it was No active inflammation was found in progress at the quite possible to have a simple wound of the intestime of death; but the tissues were considerably tine, and have a rapid recovery also. In illustration, thickened by former inflammatory processes.

Dr. A. P. Gerster presented a specimen which he appearance, and by Monday night they were flowing thought constituted an interesting contribution to the away in large quantity. This free flow of fæces con-subject of Foreign Bodies in the (Esophagus. It was tinued for about ten days, but at the end of a fort- taken from a child 12 months old, in whom signs of night it had ceased altogether. The patient got respiratory difficulty, apparently in the larynx, first entirely well in three weeks. Dr. Sands thought that showed themselves at the age of 6 months. About in this instance the hypodermic needle must have two months before Dr. Gerster saw the infant a spepassed through both walls of the intestine before cialist in diseases of children was called in consultation, and made the diagnosis of a tumor, with a broad The last two cases mentioned he had seen very pedicle, in the larynx. There was increasing diffi-The case went on pretty well for a week, but on the paroxysms set up by the attempt to make a laryngoninth day the patient became much worse. There scopic examination, it was impossible to get a view was subnormal temperature, distension of the abdo- of the parts. Up to this time the general condition 24, and the abscess cavity was found to contain pus appreciably. The most careful inquiry failed to swallowed. In view of the increasing frequency of In a case in which he operated on Sunday, April the attacks of suffocation, he advised an exploratory

At the autopsy the larynx was found to be entirely there was a triangular defect of the trachea, and as In closing Dr. Sands said that he wished to call the seat of this defect the sharp edge of a metallic attention especially to the question whether in these body projected into the trachea for about three cases laparotomy was preferable to the ordinary oper-millimetres. The foreign body was a flat brass butation for perityphlitis. When peritonitis had become ton, three-quarters of an inch in diameter. Corregeneral, laparotomy, in his opinion, offered no hope sponding to the defect in the trachea, was another defect in the œsophagus, circular in shape, and almost Dr. C. K. Bridden having remarked that he was one centimetre in diameter. The foreign body was suggested themselves in connection with this case were be incontrovertible by the significant fact that at the the following: How shall we explain the fact that stated meeting of the Academy held May 6, the folthere were no symptoms of any great dyspnoea at the lowing proposed amendment to Article VIII, Section time the foreign body was swallowed? Why is it that 1, of the constitution, was introduced: "The Acadthe symptoms of pronounced dyspnoa have developed emy may suspend or expel a Fellow for violation of so late? In answer to the second inquiry, he said its regulations, or the commission of any act which unthat as time went on, the cicatricial contraction of favorably affects the character of the medical profesthe parts became greater, and thus the symptoms of sion of the interests of the Academy." dyspnæa and dysphagia became progressively aggrathe action of a valve. The stream of air rushing up published, they were received directly from a promifrom below had the effect of raising the projecting nent officer of the Academy, whose word no one edge of the button, and thus placing it more transversely to the axis of the trachea. The minute dipeaching.

Not the Academy, whose word no one acquainted with his standing would think of impeaching.

P. B. P. mensions of an infantile trachea, still further reduced in this case by cicatricial contraction, would be influenced by very minute changes of position.

As regards the question whether the foreign body could have been extracted, he felt constrained to USE OF MICROSCOPE FOR DETECTING OTHER express a negative opinion. If, after tracheotomy, he had made use of a suitable probe, instead of the soft catheter, he would undoubtedly have detected the presence of the foreign body; but he doubted of Public Health in Minnesota, is of sufficient interest whether it could have been removed through the tra- to publish in full.] chea without producing instant death from suffocation.

Dr. T. M. Markoe referred to a case recently reported by Bennett May, in which he successfully was with a firm conviction that I should be able to extracted a foreign body which had been in the discriminate between pure dairy butter and oleomaresophagus for three years, and had ulcerated partly into the trachea. In answer to a question by Dr. victions on the fact that pure dairy butter is a non-Gerster, Dr. Markoe stated that the child in this case polarizing substance, while the solid and semi-fluid was 7 years old, and that he fully appreciated the fats contained in such substances as lard and beef fat marked advantages which this more advanced age oil are polarizing bodies. would give over the case of an infant such as Dr. Gerster's patient.

tion, to cause suffocation.

ter on this point, as in operations upon the throat he acid, it slowly becomes of a pale salmon color, within bed; but even then experience had already shown fats.) that such bodies often tilt sideways, so as to offer the least obstruction to air currents.

tion and by-laws, has completely deprived itself of conditions, never exhibits prismatic colors.

Dr. Gerster said that among the questions which the power of disciplining its members, is proved to

The incident related in a recent letter, however vated. Another question that might arise was, How "unsavory" it may be, is not so "unauthenticated" shall we explain the difficulty of expiration, as con- as the Medical Record would have its readers believe; trasted with the comparative ease of inspiration? and it is a well known fact that the proposed amend-This, he believed, was on account of the position of ment to the constitution is simply the sequel of the the foreign body, which was oblique, and gave to it case referred to. As to the facts of that case, as

#### MISCELLANEOUS.

## ANIMAL FATS IN BUTTER.

[The following letter from Dr. THOMAS TAYLOR, of the U.S. Department of Agriculture, to the Editor

My Dear Sir:—When I commenced microscopic observations of butter and fats, several years ago, it gerine by means of polarized light; basing my con-

When a specimen of butter-like material is presented for testing, I mount about a grain of it upon In reply to a question by Dr. R. F. Weir, Dr. a microscopic slide (a piece of glass 3×1 inch), over Gerster said that he believed that an attempt to re- which I place a circular glass over, and compress the move the foreign body would have proved fatal, substance into a thin film, or until it appears semibecause the diameter of the button was larger than transparent. If it presents a white, even, cloud-like the calibre of the trachea; and hence it would have appearance, and has the odor and taste of butter, I completely plugged up the passage, and probably for conclude that it is probably butter. If when boiled a sufficiently long time, during the efforts at extrac- over the flame of a spirit-lamp, it gives off the odor of butter, I consider this an indication in its favor. If Dr. Weir then said that he differed from Dr. Gers- when triturated with a few drops of strong sulphuric had more than once seen the trachea entirely oc- five to twenty minutes, or of a light brick red, changcluded temporarily, in a digital exploration, without ing after the lapse of about twenty-four hours to a any serious result following. He therefore thought tallow color, this is another indication of its genuinethat if the foreign body could have been seized, it ness. Lard and beef fat, in the same length of time might have been safely removed. The risk of suffo- and under similar conditions, each assume a walnut cation would come from the button slipping from the color. (For a fuller explanation of my acid test, see grasp of the forceps after it had been lifted out of its my first paper on the acid treatment of butter and

If the sample is submitted to the action of polarized light and selenite plate, and appears of a uniform That the position taken by your correspondent, green, red, blue, or yellow color, according to the that the New York Academy of Medicine, by the selenite used, we have another indication that the recent alterations which it has made in its constitu-substance is pure butter; normal butter, under these

Sometimes large crystals of salt cause the appear- Lard.—No reliance can be placed upon the lards ance of prismatic colors by refraction. These should of commerce as to their purity. Leaf lard is now be removed. Butter that has been exposed to the rendered by some firms with a small quantity of soda light until it is bleached, or butter that has been in for the purpose of dissolving the tissues; by this immediate contact for a long time with a substance means an impure lard is produced, which contains a that absorbs its oil, as when placed in wooden tubs, small amount of soap in which the crystals are not has undergone a chemical change, and should not be so well defined as in lards rendered without the aid considered as normal butter. A superior butter when of chemicals. boiled with or without oil, will yield large crystals of Lard composed of stearine and cotton-seed oil is fat by attending to the following directions: Place also in the market; it may contain beef fat, for one from half an ounce to an ounce of butter in a test of the forms of stearine is a roughly made by product tube of sufficient capacity, holding the tube by means of the oil of beef fat. A lard thus made will show of a twisted wire over a spirit lamp, until the butter strongly marked stellar crystals. To avoid mistakes is thoroughly boiled for about one minute; then, in in regard to the crystallography of the fats of plants order to crystalize, let it cool in an atmosphere of 50 and animals, I always render the fats I use in my hours, so that it will crystallize slowly: this will give through which they pass in oil solutions. the best results. Take a portion of this, when cooled. on the point of a pen-knife, place it on a glass slide, butter, the crystalline character of boiled butter, of add to it one drop of sweet oil, and, with a pin, sep- lard, and of tallow, one is in a position to discriminate arate the crystals, which are large enough to be seen between pure normal butter and the butter substiwith the naked eye. Subject the specimen to polar-tutes containing free fats. That pure dairy butter ized light; turn the polarizer until a dark ground is viewed under polarized light and selenite plate, shows produced, and the butter crystal will appear bright, no prismatic colors, the following experiments de-exhibiting upon its surface a black cross, in outline monstrate: Place a green selenite between the polarthe same as that known as the cross of St. Andrew.

a warm atmosphere, is boiled and cooled, a second-butter under the selenite, view again, and the same ary crystallization quickly takes place, of rosette-like even green color is observed. Now, place a small form, which generally proceeds from the center of the portion of lard and beef fat oil on the slide, and with cross. A very superior, freshly-made butter, rich in polarized light and the same green selenite, the fat fats, which has been kept cool previous to re-boiling, map be preserved a long time at a temperature of 60 degrees, without exhibiting the rosette crystals; some fats, and a non-polarizing body like pure dairy of which may be observed in the act of "budding," the interspaces filled with the rosettes which have floated off from the original globose forms which show the black cross. These appearances are among the semi-fluid translucent fats, such as lard and tallow, in conditions which distinguish pure butter from the combination with unboiled butter, is so easily defats of beef mutton and lard. Use a magnifying tected when submitted to the action of solarized light power of about 250 diameters for the small rosettelike bodies, which vary greatly in size, and might be are seldom absent, and are easily distinguished from mistaken by an inexperienced observer for the crystals of the fat of beef, in their early stage of develop- bined. This is one of the most important of all my

Beef Fat.—Take any portion of beef fat, render it slowly in an iron pot without water, strain it and set tion, reports in Bulletin 13 of that Station, under date it away to cool. To an ounce of solid fat thus ob- of March 1, 1886, that by the use of my butter tests tained, add cotton seed oil; heat in a test-tube nearly on a variety of butters procured from those on exhito the point of decomposition, and let it cool for bition at the Stock Show at Chicago, he observed about 24 hours at a temperature of about 60 degrees, invariably the form of the St. Andrew's cross, as I F. Its consistency should then be semi-fluid. The have described it; and further, that on submitting crystals of the fat of beef are very small on first boil- lard to polarized light, "nothing but the small irreging and should be reboiled and cooled several times. ular stellated bodies could be seen, in which cross In this way the crystals enlarge and become better de- was entirely wanting. A large number of slides were fined, and appear quite different from the secondary mounted and examined, but not a single 'butter crystals of butter. High powers are required for this crystal' could be found." Prof. Weber further states fat, say from 450 to 1000 diameters. The crystals of that "oleo oil" (beef-fat oil), treated in a like manbeef fat treated as above, and viewed under high ner, gave similar results, "only small stellate crystals powers, present a foliated appearance. In my or-dinary methods of mounting for temporary use, I of Dr. Taylor were fully corroborated." He thus take care to press the covers very gently, especially acknowledges the correctness of three of my original when mounting large crystals of butter. Beef, mutton and lard may be pressed without damage.

to 60 degrees F., during a space of from 12 to 24 experiments, noting the stages of crystallization

Having noted some of the peculiarities of normal izer and the analyzer and a plain green color will be When old butter, or butter which has been kept in observed. Then place a mounted slide of normal will exhibit prismatic colors, showing the contrast between a polarizing body, such as the semi-solid butter.

> Butter and oleomargarine.—The preceding experiments explain why butterine, which contains solid or and selenite plate. The crystals of lard or of tallow the mass of amorphous fats with which they are comtests of oleomargarine and butterine.

> Prof. H. A. Weber, of the Ohio Experiment Sta-According to his report he made fifteen experiments

in all; of these only the first three have any relations

butterine at a high temperature. I have just examined a composition of butter and

"oleo oil" (beef-fat oil), in the proportions given 104° F., and combined with the beef-fat oil. The mounted slide did not show any butter crystals, while it did exhibit those of beef, (oleo oil). In this case the methods of those engaged in the production of butterine and olcomargarine, were imitated by only melting the butter and fats at a very low temperature. Prof. Weber erred in boiling his oleomargarine, and this holds good with all his experiments, from four to fifteen inclusive. His last twelve experiments must coming work on "Bright's Disease and Allied Affecbe eliminated from our consideration of this subject, because they have no relation to my methods of discriminating between butter and oleomargarine; nor lished simultaneously by H. K. Lewis, of London. has the black cross of boiled butter any direct relation to this subject, since dairy butter is not sold in the markets in a boiled condition. It is only when the differentiation of the respective crystals of the fats of the various plants and animals is considered. that the cross of butter becomes an important factor.

Prof. Weber's experiments, wherein by triturating lard and oleo oil with a little salt and water, he forms globular fatty bodies, which exhibit a cross like that of butter, affords an interesting confirmation of my statement to the Commissioner of Agriculture; see the annual report for 1885, wherein I say, that any body which is globular, translucent, smooth and polarizing, will show a cross. (See also the Annual Report of the American Society of Microscopists for

same year.)

That which Prof. Weber terms fat "globule," is such come a member. a body as I described, "globular, translucent, smooth and polarizing." Polarizing, because it contains semisolid, translucent fats. Had Prof. Weber examined such globules by plain transmitted light, he would the globose butter crystal viewed under the same Major David L. Huntington, Surgeon, ordered to proceed from Washington to Davis's Island, New York Harbor, on public conditions, which has a uniform structure peculiar to itself. (See figure 2, of the abstract of my paper on Butter and Fats, read before the American Association for the Advancement of Science, last September).

In an experiment made as late as the 20th of this month, in the presence of Prof. Wiley, Chief Chemist of the Department of Agriculture, and two of his assistants, Mr. Richardson and Mr. Richards, I demassistants, Mr. Richardson and Mr. Richards, 1 delined on strated that a butterine made at my request in the Laboratory, which contained but 1 per cent. lard to go per cent. pure butter, exhibited, when examined by polarized light and green selenite, well defined cryspolarized light and green selenite with the contained by the cryspolarized light and green selenite with the contained by the cryspolarized light and green selenite with the c tals of lard, of a rich golden color on a green ground, the green representing the butter. In this way the adulteration was at once detected.

The experiments of Prof. Weber are calculated to introduce confusion and difficulty into a matter in itself comparatively clear and easy. The problem which has engaged his attention seems not to have been how to discriminate between butter and its substitutes, but how to subject them to conditions which, as far as possible should render them indistinguishable.

It must be borne in mind that the manufacturers with my methods; the remaining twelve are based on of counterfeit butter are obliged to limit their treathis uniform plan of boiling all of his combinations of ment of the substances they use to such manipulations as are consistent with the salability of the product.

OHIO STATE MEDICAL SOCIETY.—The forty-first above. The butter was melted at a temperature of annual meeting of this Society will be held at Akron, Ohio, on June 2, 3, and 4, 1885, under the Presidency of Wm. Morrow Beach, M.D. The list of papers is very large and unusually promising. Delegates and members should procure railway certificates from the Secretary, G. A. Collamore, M.D., of Toledo, before leaving home, specifying the route chosen.

> A NEW WORK ON RENAL DISEASES,-A forthtions," by Dr. Charles W. Purdy, of Chicago, is announced by Lea Brothers & Co. It will be pub-

> CHICAGO MEDICO-LEGAL SOCIETY.—This Society, which has been recently formed in this City, has for its object the investigation, study and advancement of the science of medical jurisprudence, the punishment of unprofessional and criminal practices by members of the medical and legal professions, the prevention of blackmailing, and the procuring of such legislation as may be necessary to these ends. Applications for membership should be addressed to the Executive Committee, through the Secretary, Marshall D. Ewell, M.D., 170 Washington St., and should be accompanied by \$5.00, which will be returned if the applicant be rejected. Any regular practitioner of medicine or lawyer in good standing may, upon recommendation of the Executive Committee, be-

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DITTLES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM MAY 8, 1886, TO

business connected with the reconstruction of the present hospital building at that depot, or the crection of a new one. On completion of this duty to rejoin his station. (S. O. 109,

Major John Brooks, Surgeon, from Dept. Cal. to Dept. Cast. Capt. Edward T. Comegys, Asst. Surgeon, from Dept. Mo. to

Dept. East.

Capt. Aaron H. Appel, Asst. Surgeon, from Dept East to Dept. Mo. (S. O. 106, A. G. O., May 6, 1886.)

granted leave of absence for four months, with permission to apply for four months' extension. (S. O. 109, A. G. O., May 10, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING MAY 15, 1886.

Bransford, J. F., Surgeon, invalided home from Pacific Station. Winslow, Geo. F., Surgeon, ordered June 1 prox. to the U. S. S. "Atlanta."

Heffinger, A. C., P. A. Surgeon, detached from the Navy Vard, Portsmouth, N. H., and ordered to U. S. S. "Atlanta." June 1.

# ournal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N. S. DAVIS.

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No. 22.

#### ADDRESS IN SURGERY.

THE PRESENT STATUS OF ABDOMINAL SURGERY.

Delivered at the Thirty-Seventh Annual Meeting of the American Medical Association on Tuesday, May 5, 1886.

BY N. SENN, M.D.,

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The frequency with which grave complications foimanu potissimum curat."

No one who is familiar with the medical literature clusion than that the legitimate sphere of the physistatement be objected to, that the practice of medicine has become more and more surgical. In accordance with the spirit of the times, uncertainty and give way to positive knowledge and actual demonstration. Surgery has gained the supremacy over investigation and positive demonstration in the chemical, physiological and pathological laboratories.

The science of surgery is rapidly assuming a dethe exact sciences. During the last few years sur- cal and important subject. gery has assumed a decidedly progressive and aggressive character. Operations which a few years pride that laparotomy in penetrating wounds and visago would have been deemed impossible or unjusti- ceral injuries of the abdomen was conceived, develfiable, have become established, legitimate surgical oped and perfected in America." procedures. In obscure doubtful cases the scalpel is now frequently resorted to, without fear of causing every case of penetrating wound of the abdomen is additional complications, for the purpose of making urged by many, but it cannot be said that this pracuntra vitam an anatomical diagnosis. Modern surtice is sanctioned by the majority of the profession gery has achieved its greatest triumphs in enlarging at the present time. The great difficulty that pre-the field for the direct local treatment of disease, thus sents itself to the surgeon in the absence of positive enabling the surgeon to treat with success injuries symptoms, is to differentiate between a penetrating

and lesions beyond the reach of medicinal agents. The surgical literature of the day bears abundant evidence that the remotest organs are now approached by the surgeon with comparative immunity, and that incalculable benefit has been derived from direct operative treatment. The affections of abdominal organs have received the well-merited attention of surgeons since the improved wound treatment has been introduced. Numerous maladies which heretofore have been considered incurable are now successfully treated by the surgeon by operative measures. Experimental research and clinical experience have lowed even the most trivial operations before the demonstrated that organs and parts of organs which introduction of the modern treatment of wounds, un- were heretofore regarded as indispensable and essendoubtedly induced the great Hunter to remark: tial, can be successfully extirpated when they are the "The necessity for operation is in truth the defect of seat of injury or disease. With a view of directing surgery." To-day, with an improved technique and your attention to a few of the most brilliant achievethe means at our disposal which, if properly applied, ments of modern surgery, I have selected as the subwill furnish almost absolute protection against wound ject of my address, "The Present Status of Abdominfective diseases, the surgeon can, with a just source inal Surgery." A condensed brief account of the of pride and gratification, confirm the correctness of more recent advances made in the surgical treatment the assertion made centuries ago by Celsus, "quae of injuries and diseases of the abdominal organs must interest equally the physician and the surgeon.

It is not my intention to trespass upon the legitiof the last two decades can arrive at any other con- mate field occupied by the ovariotomist or the gynecologist. I shall therefore limit my remarks to a cian has been gradually growing smaller, or, if this consideration of such injuries and lesions of the abdominal organs as they present themselves to the physician and general surgeon. It will be my special aim to point out the limitation of abdominal operadoubt in the diagnosis and treatment of disease must tions, and to draw a distinct line between the feasibility and justifiability of such operations.

Penetrating Wounds of the Abdomen .- During medicine because the principles upon which modern the last year the literature on this subject has been surgery rests have been made the subject of accurate enriched by two valuable papers by Drs. Dennis and Bryant, of New York. These contributions, made in such rapid succession, may be considered as sufficient evidence of the deep interest which has been gree of accuracy approaching in perfection any of awakened among American surgeons on this practi-

Dennis has well said, "It is a source of National

The propriety of resorting to abdominal section in

and a visceral wound. Clinical experience and sta- imposed by the teachings of modern surgery. Diffitistics have demonstrated the importance of making culties may be encountered by the medico-legal beara distinction between punctured wounds and gunshot ing of a case, but when called upon to treat an otherwounds of the abdomen both in reference to diagnosis wise fatal injury, this should not deter the surgeon to and treatment. It is well known that penetrating stab resort to the only measure which might save a human wounds are less likely to be complicated by visceral life. The first indication that presents itself in the injury than bullet wounds, consequently this class of treatment of an open wound of the peritoneal cavity injuries offers a more favorable prognosis and does is to prevent infection by covering the wound with not call so uniformly for treatment by abdominal an antiseptic compress, until ample preparations can section. As in stab wounds, there is a greater ten- be made for more effective treatment. Whenever dency to prolapse of the intestine, exploratory lapar-practical, the necessary dressing or operation should otomy for diagnostic purposes is also less frequently be done with the least possible delay and at or as wounds of the abdomen, without resorting to heroic flicted. Procrastination and transportation are dantreatment, must induce every thoughtful surgeon to gerous factors in the treatment of this class of injuries, abstain from subjecting the patient to the additional as both augment the gravity of the case by increasing risks of laparotomy, unless the symptoms are such the danger arising from the two most dangerous conthat the existence of visceral injury can be assumed with a reasonable degree of certainty. It must, how ever, be remembered in arriving at conclusions con- be made with the same care as in opening the abcerning the nature of the injury, that the symptoms do not always correspond to the gravity of the vis ceral lesion, hence if any doubt remains in the mind of the surgeon, it is justifiable and proper, now that exploratory laparotomy can be made with such comparative immunity, to resort to it and give the patient the only chance of recovery by ascertaining the exact nature of the injury, which can be the only proper and safe guide to rational and successful surgical treatment. Dr. Dennis has called special attention of the abdomen, a condition which, when present, would in itself always indicate an abdominal section for its relief. In doubtful cases exploratory laparotomy can be done by enlarging the wound, which, when required, can be followed by the usual incision ing abstraction of heat and guarding against infection. in the median line when operative treatment of the visceral lesion is required.

treatment to be pursued is more definitely settled by accumulated knowledge resulting from careful experimental research and an immense clinical material. suspicion of injury of the intestine calls for treatment by laparotomy as affording the only chance of recovery for the patient. The statement by Otis that gunshot injuries of the small intestines are always erative measures. fatal if treated upon conservative principles, is practically well established, and is a sufficient argument in favor of treatment by abdominal section. In penvisceral injury exists, and this fact constitutes a poimitation of their practice.

abdominal section, has failed to discharge the duties subjected to such a grave procedure.

The numberless recoveries after stab near as possible the place where the injury was inditions-hæmorrhage and fæcal extravasation.

The preparation for an abdominal section should domen for the removal of an ovarian tumor. If the operation has to be performed we can never rely on an aseptic atmosphere, hence the minutest details of antiseptic surgery must be followed. The wound and especially the prolapsed viscera must be kept protected as much as possible against the air by avoiding unnecessary exposure.

As a disinfectant solution corrosive sublimate should be preferred to carbolic acid. The temperature of the room should be kept at 80-90° F. Until the abto volvulus as another complication of stab wounds dominal cavity is opened the field of operation must be frequently irrigated. The intestines when brought out of the wound should be carefully protected with a warm aseptic compress kept moist with a weak solution of corrosive sublimate with a view of prevent-

The abdominal section has for its object: 1. Positive diagnosis. 2. Arrest of hæmorrhage. 3. Res-In gunshot wounds of the abdomen the course of toration of a breach of continuity. 4. Removal of extravasation. Exploration of a penetrating wound either with the finger or a probe is never justifiable as it increases the danger from extravasation and These injuries are so uniformly fatal that the slightest homorrhage without furnishing any information of a diagnostic value. The direction of the wound canal and the anatomical location of the different viscera must be carefully considered before resorting to op-

When it becomes necessary to make an exploratory incision of sufficient size to enable the operator to introduce his hand it is preferable to select the median etrating gunshot wounds it is highly probable that line, as an incision at this point inflicts less additional traumatism, is attended by little or no hæmorrhage, tent argument in favor of surgical interference, which and can be utilized at once for the necessary operaalone is adequate to prevent an inevitable fatal ter- tive treatment of the visceral lesions, if they exist. mination. The brilliant results which have been ob- It is a source of comfort to the surgeon to know that tained by Bull, Hamilton, and others in desperate the different operators experienced but little difficulty cases of multiple perforations of intestines, by oper- in detecting the seat of lesion in the bowel, and that ative treatment, afford abundant encouragement for usually all the perforations were found in multiple wounds of the intestines. It is unnecessary to urge It can be justly said that the surgeon who allows a upon you the importance of a careful search for adpatient to die from the effect of a visceral injury of ditional injury when one perforation is found, as a the abdomen produced by a stab wound or a bullet failure to detect all of the openings in the intestine would, without at least a proposition to resort to would frustrate the object for which the patient was of carefully arresting all hæmorrhage. From the without visceral injury. Until we shall be able to peculiar anatomical relations of the blood-vessels in make a differential diagnosis by the simple interprethe abdominal cavity it has been found that even very tation of symptoms, we must insist upon the justifiasmall vessels will continue to bleed unless permanent bility of explorative laparotomy for diagnostic purhæmostatic measures are employed. If many bleeding points are encountered a number of hæmostatic of treating all visceral wounds of the intestines by forceps can be applied before tying the vessels. If abdominal section, as affording the only chance any of the large venous trunks have been injured, of preventing an otherwise almost certain fatal -peripheral venous compression will facilitate the difficult task of securing the bleeding vessel. If the wound in the bowel can be approximated without producing too much narrowing of its lumen it should be closed with a Lembert's or a Czerny-Lembert's suture.

If enterectomy becomes necessary the two ends of the bowel should always be united with a Czerny-Lembert's suture, as this suture secures accurate ap-lished by stitching the proximal end to the margins proximation of an extensive serous surface, and thus of the wound in the same manner as in forming an furnishes the most favorable condition for rapid union which affords the best possible protection against the danger of subsequent extravasation. If fæcal extravasation has taken place it becomes necessary to resort to a careful toilet of the peritoneum, which can be accomplished most efficiently with large flat aseptic sponges wrung out in a weak solution of sublimate. When extensive soiling of the peritoneal cavity has taken place it would appear most expedient to resort to thorough irrigation with warm sterilized water, with a view of effecting mechanical removal of all foreign substances. When this has been accomplished the peritoneal cavity should be further cleansed and dried with a sponge wrung out of a  $\frac{1}{2}$  per cent. solution of corrosive sublimate. The abdominal incision is closed in the same manner as after abdominal section for other purposes, in all cases where we have reasonable cause to believe that we have succeeded in securing an aseptic condition of the peritoneal cavity; if any doubt remains upon this point, drainage is some instances, the laceration may be incomplete

general principles, rest, absolute diet, and the admin- of the abdomen is received and the patient and suristration of opium being the most essential conditions | geon are in the belief that no serious injury has been in favoring rapid healing of the the intestinal wound. sustained until symptoms indicative of perforation, In the future shock will not be mentioned as fre- and frecal extravasation announce the gravity of the quently as heretofore as a cause of death in penetrating wounds of the abdomen, as it has only too which came under his own observation, only one of frequently been mistaken for the symptoms due to which terminated favorably, and in this case the peracute aniemic from hamorrhage into the peritoneal foration produced a suppurative perityphlitis. He cavity. Further, when life is threatened from this cites four additional cases, of which two terminated cause, a fatal termination can often be prevented by in recovery after the formation of a faecal abscess. resorting promptly to transfusion of blood, or infunda- These cases should at least put us upon our guard to tion of a saline solution, after the bleeding points exercise proper care in the treatment of abdominal have been secured. I am satisfied that no modern contusions, so as to prevent, if possible, the disastrous surgeon would hesitate to endorse the treatment of consequences incident to perforation. Regulation of visceral wounds of the intestines by abdominal sec- diet, rest, and the use of opiates may do a great deal tion; the opposition to the operation can only be towards the restoration of a partial loss of continuity entertained in cases where it is impossible without an of the injured bowel. exploratory incision to differentiate between a penetrating wound and a visceral wound.

Great stress has been placed upon the importance other instances severe symptoms may be present poses in all doubtful cases, and upon the importance termination.

11. Laparo-Colotomy.-In cases of rectal cancer not amenable to extirpation, Madelung advises that the colon should be divided completely across low down, and the peripheral end should be permanently closed by inverting the margins deeply and applying two rows of sutures. A preternatural anus is estabintestinal fistula in any other locality. The advantages of this operation over the ordinary method are twofold: 1. The disease in the lower end of the bowel is not aggravated by the coming in contact with the intestinal contents. 2. No fecal accumulation takes place below the artificial opening as is so often the case after the ordinary methods of colotomy. Pollsson and Letievant advise the same operation.

III. Subcutaneous Laceration of Intestines .- One of the darkest chapters in abdominal surgery pertains to subcutaneous traumatic rupture of the intestines. That this accident occurs more frequently than has been generally supposed is well substantiated by recent investigations, and as the majority of cases have proved fatal on the expectant treatment, it is proper and important to consider the propriety of abdominal section in all cases where we have reason to suspect its existence.

Muguier has called attention to the fact that in and give rise to no serious symptoms for days or The subsequent treatment must be conducted on weeks, until perforation takes place. A contusion

Chavasse observed two cases of laceration of the intestine from contusion of the abdomen which in-It is to be regretted that in perforating wounds of duced him to compile all cases of rupture of the inthe intestines symptoms are often deceptive, and can-testines due to the same cause. He found a record not always be relied upon as an unerring guide in of 149 such cases. A careful study of this material diagnosis. Grave symptoms may be almost entirely led him to the conclusion, that in almost every case absent, and yet many perforations exist, while in laceration or crushing of the intestine takes place at a point between the place where the external violence cate the presence of this lesion. As the intestinal is applied and the unyielding resistence offered by coats have undergone no pathological alterations, the posterior abdominal wall. Of these cases only typical circular resection and suturing of the bowel six recovered, while the remaining number usually should be practised in preference to the advise given died within twenty-four hours with symptoms of perforative peritonitis. He is in favor of treatment by abdominal section, with a view of suturing the torn intestine or making an artificial anns.

Berger insists that laparotomy should be performed in all cases where a diagnosis of intestinal rupture can be made. In the differential diagnosis injury to the kidney becomes apparent from the character of the urine. Injury to the gall-bladder can be excluded if the patient throws up large quantities of bile. direction and amount of force which produced the injury as well as the extent of surface which was exposed to the violence, must also enter into consideration in determining the location and extent of the visceral injury. In contra-distinction to injury of the liver and spleen, rupture of the intestine must be suspected in case the force is applied over the median the spinal column. Berger and Verneuil speak against primary resection and suturing in these cases, and from the following table: advise the formation of an artificial anus. The great difficulty which presents itself to the surgeon is the

absence of positive diagnostic symptoms.

In a recent paper on this subject Dr. Weir enumerates as the most prominent symptoms: collapse, rapid respiration, frequent wiry pulse, vomiting, thoracic respiration, emphysema, and absence of hepatic dulness. The last symptom, when present is one of the most certain signs indicative of the existence of perforation, but it is also necessarily absent in all cases where the liver has become fixed and immovable by inflammatory adhesions prior to the accident. Emphysema and collapse are the two most constant and reliable symptoms upon which to base the strength of the patient has been exhausted, or a probable diagnosis soon after the accident has oc-Extensive extravasation usually does not take place, as the experiments of Jobert upon dogs have shown, that if the intestine is completely divided, the ends may contract by their circular fibres, and thus treating intestinal obstruction. While this measure prevent escape of the intestinal contents. Of all the does not exert any positive curative effect upon the cases so far reported, the rupture was found almost uniformly in the small intestines and in preference in the first portion of the tract, the duodenum and the jejunum, an important hint in searching for the seat of laceration on making abdominal section. The than real, and is in no ratio to the gravity of the in-It must also be remembered that hæmorrhage is an important element of danger, and, when con-

by Chavasse, Berger, and Verneuil of establishing an intestinal fistula.

Intestinal Obstruction.—The treatment of intestinal obstruction by abdominal section is still in its infancy, but in view of the almost hopeless condition of patients suffering from obstruction due to permanent organic changes, the results which have been obtained by operative procedures should stimulate us to abandon the expectant treatment for more positive measures. Schramm has collected 190 cases of intestinal strangulation treated by laparotomy, including three cases observed by himself in the practice of Mikulicz. He alludes to the difficulties encountered in the diagnosis of these cases and pleads in favor of early operative interference. Of this number 64.2 per cent. died, the mortality before the antiseptic treatment of wounds being 73 per cent., and since line, anteriorly, forcing the intestines directly against that time 58 per cent. The cause of strangulation and mortality attending each kind may be gleaned

27	times,	Invagination,	8	cured,	19	died
49	44	Bands or intestinal diverticulum,	13	4.6	36	"
16	6.6	Adhesions,	7	"	9	"
11	4.4	Reduction en masse,	6	66	Ś	6.6
01	6.6	Torsions,	I	6.6	9	6.6
12	**	Knotting of bowel,	4		8	44
12		Internal strangulation,	4	6.6	8	6.6
7	6.6	Foreign bodies,	4	6.6	3	4.6
38	6.6	Neoplasms,	16	"	22	44
8	6.0	Unknown causes,	5	**	3	61

The results of operations for internal strangulation will improve as soon as the physician will recognize the inefficiency of the expectant plan of treatment and will resort to timely operative measures, before the cause of strangulation has led to extensive secondary pathological changes in the tissues about the seat of strangulation. Recently Kussmaul has introduced irrigation of the stomach as a means of cause of obstruction, it serves as an efficient palliative by diminishing hydrostatic pressure and subduing increased peristaltic action, conditions which necessarily aggravate the symptoms due to obstruction.

a. Intussusception.—Until recently the operative shock attendant upon this accident is more apparent | treatment of invagination has been considered by the majority of the profession almost in the light of a criminal procedure. At present the indications are that most surgeons would resort to it in all cases siderable, it may simulate the existence of shock, where severe symptoms are present which would in-So far the only case on record where laparotomy was dicate the existence of acute or chronic obstruction performed for traumatic laceration of intestines is re- from this cause and not remediable by medical treatported by Mr. Owens, of London, who found the lac- ment or local measures. In cases where no adhesions eration, sutured and returned the bowel. Unfortu- have taken place between the intussusceptum and the nately the patient died. Duplay affirms that the intussuscipiens, reposition can frequently be effected rupture, as a rule, is complete, and as such an acci- by the administration of an anæsthetic for the purdent must be uniformly fatal, abdominal section afobserved the only chance for the recovery of the patient
and should always be resorted to whenever the
history of the case and the symptoms presented indiage over the invaginated bowel. The injection

to prevent rupture of the bowel.

a view to facilitate disinvagination by direct manip- the colon and had ascended as high as the right flexrange of operative surgery. The formation of a sented himself four months later in excellent health. preternatural anus is preterable in cases where a large That the prognosis would be more favorable if the portion of the bowel has become invaginated, and invagination is caused by a benign tumor of the inagain where the general condition of the patient is testinal wall is apparent. If in such cases disinvagso grave that the more severe operation of enterectomy ination is possible an incision into the bowel will adults with five recoveries. So far no child less than with a Lembert's or Czerny-Lembert's suture. six months old has recovered after operation. In b. Enterolithiasis.—The subject of intestinal obthe patient being an adult female.

more than two days.

which was performed in the median line. The seat gall-stone. of obstruction was readily found and the invagination day of peritonitis.

recovered partially from this attack and came under which finally proved fatal. Czerny's care six weeks after the acute attack. A In Dr. Beam's case the enterolith had become artumor, freely movable, was found close under the rested in the ileum just above the ileo-caecal valve,

should be made slowly and uninterruptedly until to either a floating kidney with symptoms of stranresistance is overcome, but also with sufficient care gulation or intussusception produced by a tumor of the intestine, with the probability in favor of the lat-If these measures fail to effect a reduction no time ter. Abdominal section revealed the correctness of should be lost in resorting to abdominal section with the latter supposition. The ileum had slipped into ulation. If by traction, direct compression, dilata-tion of neck of intussuscipiens, separation of adhe-without difficulty. At the apex of the invaginated sions, etc., reduction is not accomplished, circular portion a carcinomatous tumor was found. The resection of the invaginated bowel, or the formation growth was excised with a broad healthy strip of the of an artificial anus above the invagination present intestinal wall, and the wound sutured. The patient themselves as the only means to save life within the was discharged on the twenty-eighth day, and preis contraindicated. In fifty-one cases where lapar-otomy was done, reduction was successful in twenty-six—eighteen children with four recoveries, and eight and the operation is finished by closing the wound

the twenty-five cases where reduction failed to be struction by an enterolith has been prominently accomplished or where no attempt was made, in four brought to the attention of the profession by two the abdomen was closed without any further attempt cases reported during the last year by Dr. Lange and being made; in all of them the result was fatal. Of Dr. Beam. Dr. Lange's patient was a woman 60 eleven cases of resection only one recovered, and years of age who had for a year suffered at times this was Czerny's case where the disinvaginated from colicky pains which were attributed at the time bowel was resected on acount of malignant disease. to the passage of gall-stones. She was suddenly at-In nine cases enterotomy was performed, as reductacked with symptoms of acute intestinal obstruction, tion was found impossible, and circular resection was and when visited by the doctor four days later she deemed impracticable; in all, except one, death occurred a few hours after the operation. In the latter fered the only possible chance of recovery median case life was prolonged for two and one-half days, laparotomy was performed. On opening the peritoneal cavity a considerable quantity of turbid floccu-So far success has attended abdominal section for lent serum escaped, and after the omentum had been invagination in cases where disinvagination by direct lifted the small intestine presented itself, moderately manipulation was accomplished, an experience which distended and matted together by recent adhesions. argues strongly in favor of an early operation before Tracing the distended bowel, in a few seconds a hard reduction is rendered impossible by additional patho-lump was felt in the interior of the intestine, below logical conditions. It may be stated as a rule that which the bowel was entirely collapsed. It was evitemporizing measures should not be relied upon for dent that the obstruction was caused by this foreign body, which was removed through a longitudinal in-In the case of adults when chronic symptoms of cision in the bowel. The intestinal wound was closed obstruction precede an acute attack, the invagination with a double row of sutures and the abdominal inis often due to the presence of a tumor upon the cision united in the usual way. The patient died inner surface of the intestine, a condition so well eight hours after the operation. The mass removed illustrated by Czerny's cases reported by Fleiner, was sufficiently large to oocupy the entire lumen of The first patient was 45 years of age where an adenot the intestine, and on section showed in its centre a carcinoma of the ileo-cecal valve produced invagin- crystalline round nucleus of cholesterin, about the ation of the lower portion of the ileum into the colon. size of a small walnut, around which, in concentric The stenosis was partial and chronic, but when invag- layers, was a brownish crust varying in thickness from ination occurred the symptoms of obstruction became one-fourth to one-half centimetre. The concretion sufficiently urgent to justify a resort to laparotomy, had undoubtedly formed during the passage of the

An enterolith of similar size and structure has been was corrected, but the patient died on the following recently shown me by Dr. Ira Manley, of Markesan, Wisconsin, which he removed post-mortem from the In the second case, a man 52 years of age, the lower portion of the small intestine in a woman who symptoms of obstruction appeared suddenly. He had suffered a long time from intestinal obstruction

right costal arch. The diagnosis was narrowed down where it gave rise to acute obstruction. Laparo-

enterotomy was performed and the patient recovered. while a collapsed bowel can only be expected on the and contained a nucleus as large as a buckshot.

foreign body may also give rise to perforation.

and the general condition of the patient.

have saved the patients' lives. The existence of in- obstruction by abdominal section: testinal obstruction, acute and chronic, is characterized by a familiar complexus of symptoms, so that umbilicus. the condition is readily recognized, but the location seat of obstruction, it constitutes an unimportant obstruction. symptom in localizing the lesion. Meteorism begins flexure it is first observed over the descending colon; cation that the stricture lies near. when in the transverse colon, over the ascending will take place early if the obstruction is located high up, if low down it is a late symptom. True stercoraceous vomiting indicates that the obstruction is lopalpation of the abdomen and in doubtful cases cluded in half an hour. manual rectal exploration will constitute important obstructing cause. Peritonitis is no contraindication

The foreign body was as large as an English walnut peripheral side of the obstruction. If the cause of the obstruction is not found by the usual methods of As in most specimens heretofore examined the nu- examination, a systematic search should be made by cleus of the enterolith was composed of a gall-stone, searching for the ilio caecal region, and exploring the the previous history of gall stones should be remem-intestine, inch by inch, in both directions. When the bered in considering the nature of the cause of the patient is still in good condition, and the abdomen is obstruction, and when a probable diagnosis can be sufficiently soft and yielding for making the examinamade an operation should not be delayed, as the tion, localization of the obstruction can usually be made without great difficulty. When opposite conc. Entero-stenosis.—Non-malignant cicatricial ste- ditions are presented, when the patient is in a condinosis of the intestine as a cause of intestinal obstruction of collapse, and the abdomen tympanitic and tion, if circumscribed and not multiple, offers one of tense, and the seat of the obstruction cannot be the most favorable conditions for operative interfer- readily located, Nélaton's laparo-ileotomy should be ence. In cases of this kind the intestine on the proximal side of the stricture will be found enormously dilated, and this condition will greatly facilitate the detection of the seat of obstruction. Typical is found, typical circular resection should give way to circular resection should be performed, as it is the the formation of a faecal fistula, if the obstruction is only measure which promises a permanent recovery. situated sufficiently low down so that such a procedure Intestinal stenosis due to malignant disease calls for would not interfere with the maintenance of nutrition enterectomy or enterotomy according to the extent should the patient recover from the operation. Roser of the disease, the condition of the adjacent organs, has made the observation that after correcting a volvulus of the sigmoid flexure the torsion of the bowel d. Internal Strangulation.—The remaining causes is liable to return. To prevent such an accident he of obstruction, included under the common term advises that the loop of intestine, when placed in "internal strangulation," comprising volvulus, tor- proper position, should be stitched to the abdominal sion, internal hernia, and strangulation by bands of wall by passing a few sutures through the mesentery cicatricial tissue, are the cases which have yielded of the bowel and the parietal peritoneum of the left such a large mortality after abdominal section simply abdominal wall. After disinvagination the same prebecause the operation was delayed for too long a caution is suggested to prevent reinvagination; the time. These cases, when treated by timely interfer- sutures in this instance must fix the lower portion of ence, ought to furnish the most favorable conditions the intussusceptum. In conclusion it is appropriate for abdominal section, as many post-mortem examito allude to the following concise and practical rules nations have shown that a slight interference might laid down by J. Grey Smith for treating intestinal

1. Make the incision in the middle line below the

2. Fix upon the most dilated or the most conof the obstruction is frequently surrounded by many gested part of the bowel that lies near the surface, difficulties. As pain is not always referred to the and follow it with the finger as a guide to the seat of

3. If this fail, draw the intestine out of the wound, on the proximal side of the obstruction, consequently carefully covering it, until increase of distension or when the obstruction is located below the sigmoid congestion or both in one of the coils gives an indi-

4. If there be considerable distension of the intescolon; and when in the small intestines, over the tines, evacuate their contents by incision, and suture umbilical region. Vomiting of intestinal contents the wound. Never consider an operation for intestinal obstruction inside the abdomen complete until the bowels are relieved from over-distension.

5. Be expeditious, for such cases suffer seriously cated somewhere in the large intestines. Careful from shock. The whole operation ought to be con-

V. Enterectomy.—Circular resection of the intesaids in determining the location and nature of the tine has been on trial for a number of years and has been performed for different pathological conditions. to abdominal section, but the operation should be The results obtained thus far have shown that success done, if possible, before this complication appears, depends largely upon the condition of the tissues If after a most thorough and careful examination we through which the incisions are made. It may be are unable to ascertain the seat of the obstruction, stated as a rule that the healing process progresses the abdomen should be opened in the median line for most favorably when the resected ends have not unmanual exploration. A dilated intestine would individe gone inflammatory changes by extension of the cate that the cause of the obstruction is lower down, pathological conditions which have necessitated the strangulated hernia and internal strangulation.

ol age. The patient was suffering from strangulated fection the mesenteric circulation. femoral hernia. Taxis was only partially successful. On opening the sac an offensive fluid escaped, and a slight interruption of the circulation appears to be portion of the omentum was removed. Peritonitis well founded in resection of the large intestine. followed and a swelling formed in the abdomen above Czerny lost two cases of resection of the colon from the crural ring, which broke and a faccal fistula was gangrene produced by this cause. Lauenstein has established. Rapid emaciation ensued; symptoms found three similar cases recorded where, during opof strangulation made a laparotomy necessary. A erations on the stomach, the transverse colon was mass of intestines was found twisted into a bunch detached more or less from the meso-colon. We which could not be unravelled, and as it was sur-should a priori expect a greater liability of gangrene rounded by an abscess it was resected and the ends to occur from a limited interruption of the circulation of the intestine were united with sutures. Patient in operations upon the large intestines, from the larger recovered from operation and improved for several size of the tube, the more scanty blood-supply, and weeks. Six months later progressive emaciation re-more particularly from the greater difficulties ensulted in death.

At the autopsy the seat of resection could not be circulation. found, showing how completely and perfectly the Appended to the report of a successful case of re-intestinal wound had healed. The reporter was of section of the large intestine for malignant disease, the opinion that death was caused by the great short. Weir gives the statistics of thirty-five cases in which ening of the intestinal tract.

intestines in a girl 22 years of age on account of volved the large intestine. Of this number it is to multiple stenoses of the bowel. The patient made a be noted that of the five cases in which the operation favorable recovery. Kocher has quite recently re- was done during the exhaustion attendant upon the moved by resection 160 ctm. of small intestine for acute obstruction of the bowel, all died from the gangrene in a case of strangulated hernia. The pa- the shock of the operation; hence this condition is tient recovered and at the time the report was made considered by Schede to contra indicate the operaremained in good health.

operation. Thus Jaffe has collected 121 cases of that in multiple lesions of the intestines with inter enterectomy reported since 1876; of this number vening healthy portions of the bowel it would be thirty-six were done for gangrene of the bowel, with preferable to make multiple resections rather than 70 per cent, of deaths or formation of fæcal fistula, to include a too extensive tract of healthy intestine while of the remaining cases done for intestinal with the injured or diseased portions. Nearly all wounds, artificial anus, stenosis and tumors, only 44 operators emphasize the importance of not interferper cent, terminated unfavorably. A study of these ing unnecessarily with the vascular supply of the cases induced him to decide against the advisability bowel for fear of causing gangrene of the resected of primary enterectomy for gangrene of the intes- ends. Lauenstein is so strongly convinced of the tines. The same opinion is entertained by von Berg-importance of this precaution that he claims the por-The experience of Billroth also corroborates tion of intestine deprived of its mesentery always the opinion, which is now generally accepted, that becomes gangrenous; consequently in such cases he primary typical enterectomy and enterorrhaphy should advises resection of that portion of the intestine rather not be performed in cases of gangrene resulting from than trust to the doubtful restoration of the vascular supply by collateral circulation. That it is import-Of six cases of enterectomy for gangrene operated ant to interfere as little as possible with the bloodupon by Billroth only one recovered, and in this case supply of the resected ends of the bowel no one will a fæcal fistula formed, which, however, closed without doubt; but that in the case of the small intestines further interference in three weeks. In contrast with this fear has been overestimated, I am convinced. these cases were five enterectomies combined with During my experiments on the pancreas last year I extirpation of tumors affecting the bowel primarily or often detached the mesentery from the duodenum by extension; of this number three recovered. Clin and upper portion of jejunum in dogs and cats to the ical experience appears to have definitely settled the extent of from two to twelve inches, and yet gancourse to pursue in cases of gangrene of the bowel, grene of the bowel occurred only in exceptional cases. viz.: to establish a preternatural anus, and, if this The vascular supply was restored either by the defails to close by more conservative means, to resort nuded surface of the bowel coming in contact and rais to close the base of the intestinal canal is portion corresponding to the cicatrix between the section of a large portion of the intestinal canal is portion corresponding to the cicatrix between the not always compatible with health is well illustrated denuded surfaces, or the circulation was restored by by a case reported by Baum in which he removed the growth of new vessels of large size along the de-137 ctm. of the small intestines in a woman 40 years tached portion of the bowel, thus restoring to per-

> The apprehension of causing gangrene by even a countered with in the formation of the collateral

Appended to the report of a successful case of reexcision of a cancerous intestine was resorted to, and In 1881 Koeberlé resected 2.05 m. of the small in all cases save one (Schede's) the disease had intion. Of these thirty-three cases there was a mor-Notwithstanding the favorable results obtained by tality of seventeen, or 51.5 per cent., only a little Koeberle and Kocher, Baum's case should indicate greater than that which results from resection of the to us that there must be a limit to the extent with large intestine from other causes, and which is given which resection can be practised with immunity, and by Maydl at 50 per cent. Aside from the shock, ten died within forty-eight hours; in a number of cases which had also been opened, had escaped into the the progress was complicated by perforative periton-left pleural cavity. The reporter found three similar itis and intestinal fistula. When the latter occurred cases in literature. He suggested that, in a diaperforation was due either to faulty suturing or gan-ciently by rib resection to permit reduction, and to grene of the margin of the wound from detachment close the wound in the diaphragm in such a manner returned it took place in three cases in less than one the stomach. That the recognition of a diaphragmyear, in four others between one and two years, in atic hernia is not always an easy task, even after one case over two years, and in Gussenbauer-Mar- opening the abdominal cavity, is illustrated by Fertini's case the patient was free from the disease four ran's case. This surgeon performed laparotomy on years after the operation.

lapse, and in the other from septic peritonitis.

VI. Rupture of Diaphragm.—Rupture of the diphragm with escape of the abdominal organs into the cavity of the chest, is a rare accident, but when it does occur it is so uniformly fatal when treated on the expectant plan that in these days of heroic surgery it would appear only reasonable to make an effort to save life by abdominal section, or by an opening into the chest. Either procedure would through the chest is not practicable on account of enable the surgeon to replace the dislocated organs the frequency with which pleuritic adhesions are and to close the rupture by suturing. A number of found and the greater amount of additional traumatof the abdominal organs into the cavity of the chest, latter should be preferred for the relief of diaphragmdisplacement of the lung. In pneumothorax respiration is abdominal; in traumatic diaphragmatic hernia the respiratory movements are costal, and the Section and Drainage.—The great fatality of acute agnostic symptom.

the wound in the diaphragm a portion of the stomach, forty four times on account of the presence of peri-

in the course of an otherwise favorably progressing phragmatic hernia, new or old, presenting symptoms case, it, as a rule, closed later spontaneously. The of strangulation the chest should be opened suffiof the meso-colon. In cases in which the disease that the sutures should embrace the serous coat of a young woman who had suffered from symptoms of The propriety of excision of the colon for malig- intestinal obstruction for seven days. The small innant disease can therefore not be questioned, the testines having been turned out from the abdominal more so if it is found on exploration that the discavity, a careful examination of their whole length eased tissue cannot be removed an artificial anus and of the cæcum, sigmoid flexure, and rectum was can be established at once with or without excision, made without the discovery of any cause for the obwhich will at any rate remove the symptoms due to struction. The wound was closed and the patient obstruction. In two of Billroth's cases, in which the rallied well and showed signs of improvement until cancer affected the descending colon in one instance, next morning, when sudden collapse manifested itand the sigmoid flexure in the other, so much of the self, with speedy death. Post mortem examination bowel was removed that the ends could not be united; showed the existence of a diaphragmatic hernia from an artificial anus was established, but in both in-laceration; almost the entire transverse colon had stances a fatal termination followed, in one from colescaped into the left pleural cavity, the distended loop of the intestine displacing the heart and the left lung. In the space near the diaphragmatic ring it was noticed that the constriction of the bowel was such as to hardly admit the tip of the index finger. Upon trying to reduce the hernia the ascending gut slipped back into the abdominal cavity without offering any resistance.

The establishment of a route to the diaphragm traumatic ruptures of the diaphragm, with protrusion ism as compared with abdominal section; hence the have been reported where, during life, at least a atic hernia in all cases where a probable diagnosis probable diagnosis could be made. All of the cases can be made, and where symptoms of strangulation reported by Butlin and Brinton occurred on the left dictate the propriety and justifiability of the operaside. The physical signs on which the diagnosis was tion. If the injury is produced by a penetrating based consisted of tympanitic resonance over the wound of the chest, the method of operation suggestside of the chest which contained the prolapsed in- ed by von Horoch would be applicable, and in case testines, with diminution of vocal fremitus and res- the symptoms pointed also to visceral injury of the piratory sounds over an area corresponding to the abdominal organs it should be combined with ab-

abdomen is flattened; conditions which are sugges- diffuse peritonitis under the old or expectant method tive of the escape of gas-containing intestines into of treatment gives some support to the recently prothe cavity of the chest. Symptoms of intestinal ob- posed treatment by incision and drainage. This now struction indicate strangulation of the protruded common and general surgical procedure has been albowel. Guttmann regards displacement of the heart, ready applied with great success for the relief of inin the absence of other causes, the most reliable di-flammatory lesions of all of the other serous cavities. The first record of an operation performed deliber-An interesting case of traumatic diaphragmatic ately on account of acute peritonitis was proposed hernia which came into Albert's Clinic has been de- and executed by Dr. Wiltshire in 1868. About thirteen scribed by von Horoch. The patient received a stab years ago Mr. Lawson Tait followed Wiltshire's exwound immediately under the left scapula. He ample. Since that time he affirms he has never died two days later with symptoms of asphyxia. The allowed a patient to die of peritoni is without opening post mortem examination showed that the left lung the abdomen whenever he was permitted to perform and diaphragm were punctured by the knife. Through the operation. He has performed abdominal section cessful in forty-one cases.

As peritonitis is usually only a secondary manifestion of an antecedent primary cause, it appears

J. W. Taylor reports an interesting case of acute

J. W. Taylor reports an interesting case of acute tation of an antecedent primary cause, it appears removed. Cases of this kind are represented by:

organ has formed adhesions by previous attacks of at some future time. perihepatitis. The absence of vomiting in a case of the bursa omentalis.

toneal, so that in opening these abscesses the surgeon fluid, mixed with flakes of lymph and pus. in perforation and secondary diffuse peritonitis.

testines could be felt through the wound. The cavity ity has been rendered perfectly aseptic, it is always

tonitis and the operation has been completely suc- was washed out with a weak solution of carbolic acid and drained. The patient made a slow but good

plain that the treatment by surgical interference will hydronephrosis where rupture of the cyst into the be most successful in cases where the disease has not peritoneal cavity produced great collapse, and where become diffuse, and where the original cause can be removed. Cases of this kind are represented by:

The patient was a girl 15 years of age, who was at-1. Perforative Peritonitis. - In order to recognize tacked suddenly with pain in the left lumbar region, and this condition early when most amenable to surgical vomiting, followed by the appearance of a fluctuating treatment, it is important to allude to some of the tumor in the same side, which was at the time diagmost prominent early symptoms. Observation of a nosticated as acute hydrops of the left kidney. She number of cases of peritonitis following perforation suddenly became collapsed, which with other grave has satisfied Ebstein that the abdominal walls usually symptoms indicated rupture of the cyst and extravaremain tense and rigid without distension; the ab-sation of its contents into the peritoneal cavity. The domen may be flat and even depressed. The con- abdomen was opened at once through the median tracted condition of the abdominal muscles remains line. The abdominal cavity was thoroughly cleansed for a variable length of time, when it is followed by and the remaining portions of the cyst contents were distension with or without rigidity. The contraction removed by puncturing with the trocar. The cyst of the muscles diminish as the paralytic symptoms wall was sewed to the abdominal wound, and against increase. Ebstein asserts that the absence of the all expectations the patient rallied and improved. In normal liver dulness cannot be depended upon as a a few days the cyst refilled, which necessitated a secpathognomonic symptom of perforative peritonitis. ond incision and drainage by means of a glass drain. He mentions a case of perforation of the stomach in Urine was discharged through the wound, but the which no gas had escaped into the peritoneal cavity patient improved. As no calculus could be found to produce displacement of the liver. The liver also by an exploration of the interior of the cyst, it was remains in its normal position in cases where fluid believed that the left ureter had become completely escapes into the peritoneal cavity, and where the obliterated, which would necessitate a nephrectomy

That even perforation of a large pelvic abscess into peritonitis or its sudden cessation in the beginning of the peritoneal cavity may terminate in recovery by an acute attack indicates, when the patient is consci-timely and well applied surgical treatment is well ilous, that either perforation of the stomach has fol-lustrated by a case reported by Mr. Treves, in a lowed peritonitis. Vomiting is not present when per- paper read before the Royal Medico-Chirurgical Soforation has taken place into the peritoneal cavity or ciety, March 10, 1885. The patient was a female 21 years of age, who had suffered for three months from A case reported by Ebstein appears to prove that chronic pelvic peritonitis, following severe gonorrhea. vomiting again may take place in cases of perforation During this time a large purulent collection, containof the stomach as soon as the opening in the stom- ing very offensive matter, had formed near the pelvic ach has become closed by adhesions to neighboring brim. The acute symptoms were due to the burstorgans. Perforation of the appendix vermiformis, ing of the abscess and extravasation of its contents bursting of a pyo-salpinx or pelvic abscess furnish into the general peritoneal cavity. On the following familiar illustrations of perforative peritonitis, where day the abdomen was opened under antiseptic preatimely laparotomy would hold out encouraging cautions, the patient at the time being in a very prospects for a favorable recovery by operative critical condition. The peritoneum and intestines treatment. Mr. Treves has also shown that nearly showed signs of diffuse recent inflammation. The all abscesses about the elecum are in reality intraperi- peritoneal cavity contained a quantity of semi-opaque always has to deal with the peritoneal cavity. As whole peritoneal cavity was washed out with many these abscesses are generally circumscribed by adhe- quarts of water, and a drain introduced. The sympsions, a failure to open them in time may result again toms improved promptly, and the patient recovered.

These cases furnish abundant proof that in cases Mr. Howard Marsh relates a successful case of ab- of perforative peritonitis, irrespective of the nature dominal section for suppurative peritonitis produced of the material which has been extravasated, our only by the bursting of an abscess in the mesentery around resource which affords any encouragement whatever, old tubercular glands into the peritoneal cavity. The is abdominal section. In cases of this kind it is impatient was a young man 19 years of age, who had portant to search for the cause of the peritonitis, and suffered some time with symptoms of diffuse perito- to treat the conditions, if necessary, by operative nitis. The abdomen was found exceedingly tender measures; the toilet of the peritoneal cavity can be and distended. The incision was made over the most most effectively accomplished by copiously flushing prominent portion of the swelling on the outside of with warm sterilized water rendered slightly alkaline the linea semilunaris and gave exit to two or three by the addition of chloride of sodium. As in these pints of feetid pus. The distended coils of small in- cases we can never be certain that the peritoneal cavadvisable to resort to drainage. We have every reason relieves the pressure promptly, and thus favors reabto hope that in the future perforation of the stomach or intestines will be treated by abdominal section, as ance between secretion and absorption. Savage it holds out the only possibility of preventing death reports that he has performed laparotomy in six cases travasation and preventing further escape by closing sion, and all of his patients recovered. the rupture. In such instances it is essential to search for the perforation, which must be treated in recently called the attention of the Academy of Medthe same manner as intestinal wounds, after which icine to the value of permanent drainage in ascites. the peritoneal cavity is cleansed, drained, and the He related two cases of cirrhosis of the liver with wound closed.

recently been extended to:

2. Tubercular Peritonitis .- Koenig has called attention to the difficulty met with in the diagnosis of longing life for a considerable period. In one case circumscribed ascites following tuberculosis of the an autopsy could not be secured, but in the other peritoneum, and other fluctuating tumors of the ab- one was made, when it was found that there was not dominal cavity. He refers particularly to the pecu- the slightest indication of peritonitis at the point liar kind of fluctuation found in these cases as an where the fistula was made. If permanent drainage almost pathognomonic evidence. The fluctuating of the peritoneal cavity is possible without causing waves are large and are conveyed from one wall to inflammation, it is obvious that the treatment of asthe other, and the undulations are imparted to the cites by drastic cathartics, diuretics, and other debilabdominal wall.

Von Holst reports a case of tuberculosis of the peritoneum which was remarkable from the fact that on palpation over the abdomen dulness and fluctuation were felt as distinctly as in ascites, which on post-mortem was not found to exist. The deception was due to firm adhesions which had formed between

the omentum and intestines.

Not infrequently one or more smaller swellings are felt in the vicinity of the large one. Clinically it has been shown that the swelling may decrease in size for a time or that it may remain stationary for a considerable length of time. Tuberculosis of the peritoneum is most frequently found as a complication of tuberculosis of other organs, but sometimes it occurs as a primary lesion in persons without any hereditary taint.

Bucquoy observed a case which had its origin in a cheesy tubercular degeneration of the ovaries. Koenig reports four cases of abdominal section per- OF POTASSIUM .- VIGIER (Gaz. Hebdom. de Méd. et The formed for tuberculosis of the peritoneum. patients were all females. One of them remained well two years after the operation. The exudation was usually found immediately beneath the anterior abdominal wall, the intestines, uterus and ovaries being pushed backward. The cyst wall was always found lined with a thick fibrinous wall which presented all the microscopical appearances characteristic of tuberculosis. After incision the fluid was evacuated, the sac washed out with carbolized water, and the inner surface of the cyst wall dusted with iodoform. In the case which remained well after two years the cavity was drained, and the patient left the hospital with the drainage-tube. The fistulous opening healed subsequently. Koenig is of the opinion that in some cases of primary tuberculosis of the peritoneum a radical cure can be effected by laparotomy and local treatment.

from the consecutive peritonitis by removing the ex- of subacute peritonitis attended by more or less effu-

4. Ascites.-Dr. A. G. Caillé, of New York, has marked ascites, in which he had inserted a drainage The successful local treatment of tuberculosis has tube into the peritoneal cavity at the linea alba, with the result of affording great relief of all the distressing and dangerous symptoms, and probably proitating measures should be abandoned in favor of this surgical procedure.

(To be concluded.)

#### MEDICAL PROGRESS.

A Hypodermic Solution of Caffeine.—Tanket (Répert. de Pharm., March, 1886), recommends this formula:

> Distilled water..... 10 c. c.

Mix the benzoate and the caffeine in a mortar, add the water.

-Am. Journ. of Pharm., May, 1886.

THE INCOMPATIBILITY OF CALOMEL AND BROMIDE de Chir., May 6, 1886), remarks that calomel is decomposed on the addition of potassium bromide, although more slowly than when the iodide is added. Nobody he thinks, would give the two drugs within five or six hours of each other, but it might happen, for example, in a case of infantile convulsions, that, two practitioners being called in quick succession. the second one might order one of these drugs after the other had been given by the advice of the first one. He gives the caution, therefore, that in such cases their incompatibility should be borne in mind. -New York Medical Journal, May 22, 1886.

THE INJECTION OF ANATOMICAL PREPARATIONS.— A. K. BJELOUSSOW recommends (Archiv f. Anatomie, November, 1885) for this purpose a mixture of borax and gum arabic. The mass is injected cold. and is then fixed by immersion in spirits. By treat-3. Chronic Peritonitis with effusion.—The most ing the preparation with glycerine the injection is favorable pathological condition of the peritoneum rendered transparent; and it can be removed at any for surgical treatment is chronic inflammation with time by acting upon it with dilute acetic acid. - The serous effusion. Abdominal section with drainage American Journal of the Medical Sciences, April, 1886.

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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#### SATURDAY, MAY 29, 1886.

#### CORRECT LIST OF THE OFFICERS OF THE PRE-LIMINARY ORGANIZATION OF THE NINTH INTERNATIONAL MEDICAL CONGRESS.

As several of the leading medical journals have recently attempted to give their readers a list of the general officers of the Congress and the Presidents of the Sections without taking the trouble to secure correctness, we think it proper to reproduce the general officers of the Congress, the members of the Executive Committee and of the Local Committee of Arrangements at Washington, and the Presidents of the Sections, as arranged by the Executive Committee at its meeting, on the 3d and 4th inst. It will correct the errors published by others, and will be useful for reference by correspondents.

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Dental and Oral Surgery .- Jonathan Taft, M.D., Professor of Dental and Oral Surgery, Cincinnati, O.

### MILITARY DRILL IN PHYSICAL TRAINING.

At the meeting of the Section for Clinical Medicine of the Suffolk District Medical Society on April 14, Dr. Charles F. Withington read a paper on "Military Drill as a means of Physical Training for Boys." For some years the military drill has been the only physical exercise provided for the boys of the public schools of Boston, and the result seems to have been in every way satisfactory. All boys over 13 years of age are required, to drill except when furnished with a physician's certificate of disability.

With those familiar with the military drill there can be no question as to its value as a physical exercise, Military and Naval Medicine and Surgery.—Hen- and of its good effects, unless too severe, in giving ry H. Smith, M.D., formerly Professor of Surgery and symmetry to the muscular and osseous systems. Even the drill without arms has a marked effect upon limb-Obstetrics.—DeLaskie Miller, Ph.D., M.D., Pro- and chest-measurement, as shown by Fetzer several years ago. Dr. Withington's paper only partially Gynacology.—James F. Harrison, M.D., Professor covers the ground of the subject, and he concludes, of Medicine, Obstetrics and Medical Jurisprudence, on insufficient data it seems, that the drill is not beneficial, but prejudicial. The overwhelming mass of Therapeutics and Materia Medica.—F. H. Terrill, testimony is on the other side. Dr. Withington goes so far as to claim that the drill will cause asymmetry; but a vast amount of positive evidence must be brought forward before a verdict of "guilty" can be reasonably rendered. On the other side, in favor of the Physiology.— J. H. Callender, M.D., Professor of drill in school, is the testimony of the Boston Committee, given in the report of 1868, signed by J. Baxter Upham, Calvin Page, S. A. Green, and Ezra Palmer; the report of the same Committee in 1873, signed by Upham, Edson, Shattnck, and Woods; the report of Mr. Philbrick in 1874; the report of the Boston Committee in 1875; of the Head-Master of the Roxbury School in 1875; of the Head-Master of the Dorchester School; of General W. T. Sherman, in writing of the Michigan Military Academy; of General J. M. Schofield; and of Drs. John Moran and Henry P. Bowditch, who wrote, in 1880, in the Annual Report of the School Board of Boston: "The establishment of Military Drill is one of the few provisions made by the School Board for the physical training of the pupils under its charge; and no one who has observed the soldierly bearing of the members of our school battalion, can have any doubt of its value as a means of securing a full and symmetrical development of the physique."

> Of course it would not be a difficult matter to select from a school or army regiment perhaps one person who has some asymmetry. But this, so far from showing that the drill caused the asymmetry, only seems to show that the asymmetry was produced in spite of the drill, or that is was probably present to a larger extent before drill exercise was commenced. Professor Sargent is of the opinion that lateral curvature is often caused by the drill. His opinion is based on the examination of Havard students and members of the Young Men's Christian Union. Before receiving this opinion as one of value, however, it is necessary to ask whether those young men were in the habit of playing tenpins, which, of all games, is probably most productive of asymmetry. It is doubtless true, also, that in some schools the guns are too heavy for the pupils; an evil which is very easily avoided or remedied.

great amount in use at West Point and Military Schools generally, and in regiments at army posts normal effect of the drill is to cause asymmetry it seems that the care with which cadets are selected this subject was adjourned for a future meeting of the Section, we may leave the matter for the present, issue of THE JOURNAL.

NOTICE TO NEW MEMBERS OF THE AMERICAN MED-ICAL ASSOCIATION.—We have received letters from several who became members of the Association for the first time at the meeting in St. Louis, expressing disappointment that they have not begun to receive THE JOURNAL immediately after the adjournment. We would remind all such that we cannot know at this office what new members are entitled to THE JOURNAL until the Treasurer has had time to go over the entire registration list and to furnish us with the names and addresses of all new members, which usually requires from one to two weeks. As soon as we receive the list from the Treasurer, the names are added to the mail list, and the journals are sent.

# AMERICAN MEDICAL ASSOCIATION.

Thirty-seventh Annual Meeting, held at St. Louis, May 4, 5, 6 and 7, 1886.

OFFICIAL REPORT.

The Association assembled in the Exposition Building at 11 A.M., May 4, 1886, and was called to order by Dr. LeGrand Atwood, Chairman of the Committee of Arrangements. The President, Wm. Brodie, M.D., of Detroit; Vice-Presidents, Drs. S. Logan, La., A. Y. P. Garnett, D. C., Chas. Alexander, Wis.; the Permanent Secretary, Dr. Wm. B. Atkinson, Philadelphia; the Assistant Secretary, Dr. Wm. C. Glasgow, Mo.; the Treasurer, Dr. R. J. Dunglison, Philadelphia, and the Librarian, Dr. C. H. A. Kleinschmidt, D. C., occupied their respective positions. Prayer was offered by Rev. M. Schuyler, D.D., of

The CHAIRMAN, DR. ATWOOD, introduced Hon. D. R. Francis, Mayor of St. Louis, who welcomed the Association as follows:

THE MAYOR'S ADDRESS.

It seems that if the small amount of drill used in ical Association should hold its annual Convention in schools will cause curvature and asymmetry, the very the healthiest City upon the American Continent. As the official representative of the city, I extend to you a cordual greeting. The Municipal Government bids you welcome, and says to you, If you seek a would bring about such a state of asymmetry that healthy city, look around you.' Our people have anthe whole United States Army would be one-sided, ticipated your coming with pleasure, and, with their and present a uniform lateral curvature. And if the characteristic hospitality, have prepared for your entertainment. Your brethren of the Association have heralded your advent with pride and exultation, and have made every provision for your pleasure and enis not only useless but absurd. But as, on the sug-joyment. The home of McDowell, Pope, Hodgen, gestion of Dr. Henry I. Bowditch, the discussion on and many other honored members of your profession, welcomes you for your own sake. The calling which you have selected is a noble one. The science of medicine has been revered from all ages, and its exand hope to present the subject more fully in a future pounders have been highly and worthily esteemed. The art of curing disease is co-ordinate with the accidents and infirmities to which mankind is liable, and some rude forms of applying the art of healing were practiced by the most barbarous of people. The early history of medicine is so mixed up with mythology that it is difficult to distinguish truth from fiction. The idea was prevalent in the early ages that disease was a punishment inflicted by a high power, and consequently its treatment was relegated to priests, and was attended with superstitions rites. To what extent that idea prevails at the present day, and how far those practices have been handed down from the past, it is difficult to say, but it is none the less true that he who ministers to the physical wants of man is by many held in as high esteem as he who ministers to his spiritual wants. The history of medicine is the history of science, religion, society, progress. No science is more worthy the attention of mankind, and no nobler study can be engaged in. No brighter intellects have adorned history than those which grace the rolls of your profession. 'Peace hath her victories not less renowned than war.' Many of the discoveries of your predecessors have been in advance of the age in which they lived, and have proved of untold value to the human race. Chiron, with his pupil Æsculapius; Hypocrates, the father of rational medicine; Praxagoras, the discoverer of the relations between the pulse and the general condition of the system; the great Galen, whose doctrines were implicitly accepted for twelve centuries, and until Esalius, the anatomist, joined issue with them; Harvey, the discoverer of the circulation of the blood; Haller, the physiologist; Jenner, with his discovery of vaccine virus, are a few of the immortal names which have honored your profession, and which you delight to honor. For the sake of your profession, its achievements, and its objects do we welcome you, and not alone for that. That is reflected light, and although soft, pleasant, and to a high degree illuminating, it can not long keep step with the rapid march of the present day. To have done is to hang out of fashion. As your brethren have in the past kept pace with the spirit of their times, so in the progressive age of to-day is your profession abreast with the vanguard of science. The world is almost daily electrified by the discovery of some important princi-"It is highly appropriate that the American Med- ple or its application in some new branch, and in no

profession can not but be productive of much good. Besides promoting acquaintanceship and cultivating friendship, it opens up new fields of research and diverts thought into new channels. The ramifications of medicine are so extensive, and its possibilities are so great that specialties are daily becoming more numerous. Occasions like this are valuable to you, and of course are appreciated and taken advantage of. I cordially welcome you here and trust that your deliberations may be harmonious and satisfactory, beneficent to your association, promotive of science and conducive to the good of the community."

an address of

#### WELCOME FROM THE PROFESSION.

Dr. Atwood said, after the excellent speech of the Mayor he felt it difficult to add anything on behalf of the medical men of St. Louis, His Worship having practically covered the whole ground. The local profession had made public in every way the fact that livered the Annual Address. (See p. 505, JOURNAL the association intended honoring the city by meeting in it, and the citizens had united with them in a desire to make their guests as comfortable as possible. There was something exceedingly appropriate in the association visiting St. Louis during the presidency of in it were referred to a committee to be appointed Dr. Brodie, seeing that just thirty-two years ago that doctor was admitted to membership at that city. It It was also highly apropriate because St. Louis had witnessed the life labor of men distinguished in the medical profession, whose reputation had become national, and in some instances cosmopolitan. Here the report of the Committee on had labored Beanmont, whose profound physiological researches had resulted in so much, and also Joseph Nash McDowell, nephew of the great Ephriam Mc-Dowell, whose name was inscribed in the annals of medicine never to be erased, by his illustrious dis- of the Ninth International Medical Congress, to be had saved the lives of thousands of women by demon- to respectfully report: strating the propriety of this operation. Too much was given to the prean of those who destroyed life, structions, after mature deliberation, adopted the did not look as old as he was, was present on that occasion. Here also lived and labored John S. Moore, posed officers of the Congress, and the Presidents of

profession have these occurred more frequently than once Vice-President of the Association, and the first in yours. In no age of civilization or society have to deliver a lecture west of the Mississippi; Charles the principles of your science been so generally and A. Pope, who during his life was first surgeon and so successfully taught, and put into effective practice first gentleman of the Mississippi Valley, and others as in the present. Hygiene is to day more intelli- who had conferred unmeasurable benefits on the progently observed than ever before, and, thanks to your fession and the public. If the spirits of the illustrious thoughtfulness and advice, it is being enforced in the dead are permitted to revisit the scenes loved by them construction of our abodes, and practiced in the rou- on earth, there were present in their midst the spirits tine of our daily life. You are continually discover- of these and of other illustrous surgeons who had ing and disseminating information which preserves joined them on the other shore. If so, he had no health, prevents suffering and prolongs life. For your doubt their advice to members of the association own sakes, therefore, are you thrice welcome. We would be to preserve the National Code of Ethics as recognize among you many whose names are already the Palladium of their honor and to regard the open prominent in the world of science, and we trust that enemy of it as a Pandora with her box open, and the this Convention may result in bringing forward many secret enemy as a serpent which, with its deadly wiles, others. These annual assemblages of the medical had crept into Paradise. There was nothing left for him to do but to extend ten thousand welcomes to the members of the Association.

> Ex-Presidents Drs. N. S. Davis, J. M. Toner, D. W. Yandell, T. G. Richardson, H. F. Campbell, and P. O. Hooper, by invitation, were seated upon the

platform.

The programme and other arrangements for the

session were read and approved.

It was announced that protests had been entered against the delegates from the Philadelphia County Medical Society, the New York Academy of Medicine, the Tri-State Medical Society, the Mississippi Dr. Atwood on behalf of the profession, delivered Valley Medical Association, and the Davidson County Medical Society.

Dr. D. J. Roberts, of Tenn., protested against

the Tennessee State Medical Society.

THE CHAIRMAN offered a list of Members by In-

vitation, who were, on motion, elected.

VICE-PRESIDENT DR. S. LOGAN then took the Chair, and THE PRESIDENT, DR. WM. BRODIE, de-

On motion of Dr. J. H. MURPHY, of Minnesota, the thanks of the Association were tendered the President for his able address, and the special points by the Chair.

A memorial from the Women's Christian Temperperance Union was offered, and on motion referred to the Section on State Medicine.

Dr. J. S. Lynch, of Baltimore, presented and read

#### PRELIMINARY ORGANIZATION OF THE INTERNATIONAL MEDICAL CONGRESS OF 1887.

Your committee on the preliminary organization covery and performance of ovariotomy, a man who held in Washington, D. C., in 1887, have the honor

That your committee, in accordance with your inbut a man who had made a discovery such as this had necessary rules for the organization; nominated gendone more toward ameliorating the condition of man- eral officers for the Congress and its Sections, and a kind than any General whose glories were sung. J. local committee of arrangements at Washington, with N. McDowell opened the first medical school west of power to increase its membership, and in accordance the Mississippi, and he (Dr. Atwood), although he with Rule to, as heretofore published in The Jourits Sections, as an Executive Committee, for the further prosecution of the work of organization, and your committee herewith submit a list of the members of the organization.

#### OFFICERS OF THE CONGRESS.

President-Nathan S. Davis, of Chicago.

Vice-Presidents-Wm. O. Baldwin, of Alabama; William Brodie, of Michigan; W. W. Dawson, of Ohio; J. A. Grant, of Ottawa, Canada; E. M. Moore, of New York; Tobias G. Richardson, of Louisiana; Lewis A. Sayre, of New York; J. M. Toner, of Washington, D. C.; The President of the American Medical Association; The Surgeon-General U.S. Army; The Surgeon-General U. S. Navy; The Supervising Surgeon-General U. S. Marine Hospital Service.

Secretary-General-John B. Hamilton, of Wash-

ington, D. C.

Treasurer-E. S. F. Arnold, of New York.

Chairman of the Finance Committee-Richard J. Dunglison, of Philadelphia, Pa.

#### PRESIDENTS OF SECTIONS.

General Medicine-A. B. Arnold. of Baltimore, Md. General Surgery-Wm. T. Briggs, of Nashville, Tenn.

Military and Naval Surgery-Henry F. Smith, of

Philadelphia, Pa.

Obstetrics-De Laskie Miller, of Chicago, Ill. Gynæcology-James F. Harrison, of the University

of Virginia. Therapeutics and Materia Medica—F. H. Terrill,

of San Francisco, Cal.

Anatomy—Wm. H. Pancoast, of Philadelphia, Pa. Physiology-J. H. Callender, of Nashville, Tenn. Pathology-A. B. Palmer, of the University of Michigan.

Diseases of Children - J. Lewis Smith, of New

York, N. Y.

Ophthalmology-E. Williams, of Cincinnati, Ohio.

Otology—S. J. Jones, of Chicago, Ill. Laryngology—W. H. Daly, of Pittsburgh, Pa. Dermatology and Syphilis-A. R. Robinson, of New York City.

Public and International Hygiene—Joseph Jones,

of New Orleans, La.

Collective Investigation, Vital Statistics and Climatology-Albert L. Gihon, U. S. Navy, Washington, D. C.

Psychological Medicine and Nervous Diseases-

John P. Gray, of Utica, N. Y.

Dental and Oral Surgery-Jonathan Taft, of Cincinnati, O. On motion of Dr. A. L. Gihon, U. S. N., it was

unanimously accepted and adopted.

Dr. Henry H. Smith, Pa., offered a motion to re-

On motion of Dr. A. L. Gihon, this motion was laid on the table.

#### AMENDMENTS TO THE CONSTITUTION

being in order, Dr. N. S. Davis brought up that relating to Officers of Sections.

Dr. D. J. Roberts moved to amend it by substi- in Surgery. (See p. 589.) tuting "first day of the session, at 3 P.M."

A motion by Dr. E. Smith, of Mich., to lay it on the table, was lost.

A motion by Dr. W. Bishop, of Pa., to postpone it until after the report of the Committee on the President's Address, was declared out of order; the point of order being raised by Dr. I. N. Quimby, of N. J., that it was not germane to the subject.

A number of other amendments to the amendment were proposed and discussed by Drs. E. Smith, Dudley S. Reynolds, F. Staples, J. H. Murphy, J. B. Murdoch, W. Allport, and others, when the amendment was adopted as follows, by a large majority:

Amendment.—"Strike out the whole of the third paragraph of Section 2 of the By-laws, and substitute the following: On the second day of each annual meeting each Section shall nominate its own officers to serve for the next ensuing year, their duties to commence with the close of the annual meeting at which they are nominated, and to continue until their successors are appointed.'

A division being called for, a vote was again had, and the President decided that it had been adopted.

The various delegates were requested to select their representatives for the Committee on Nominations, and to report to the Permanent Secretary in the morning. On motion the Association adjourned until Wednesday at 10 A.M.

#### Wednesday, May 5 .- Second Day.

THE PRESIDENT, DR. WM. BRODIE, called the Association to order at 10 A.M. He announced as the SPECIAL COMMITTEE ON THE PRESIDENT'S ADDRESS,

Drs. J. H. Murphy, of Minn., A. L. Gihon, U. S. N., and Alonzo Garcelon, of Maine.

The Chairman of the Committee of Arrangements offered the names of some members by invitation,

who were on motion elected. The Permanent Secretary then read the names of the

#### NOMINATING COMMITTEE.

Ark., P. O. Hooper; Col., J. W. Graham; Conn., W. C. Wile; D. of C., J. W. Bulkley; Fla., T. O. Summers; Ga., J. W. Bailey; Ill., J. E. Owens; Ind., T. B. Harvey; Iowa, W. Watson; Kan., C. V. Mottram; Ky., W. H. Wathen; La., Jos. Jones; Me., Chas. E. Webster; Mass., E. W. Cushing; Md., G. H. Rohé; Minn., H. H. Kimball; Mich., H. O. Walker; Miss., P. W. Rowland; Mo., J. F. Dudley; Neb., W. M. Knapp; N. J., E. L. B. Godfrey; N. Y., E. S. F. Arnold; N. Ca., C. J. O'Hagan; Ohio, H. J. Sharp; Pa., J. C. Lange; R. L., H. R. Storer; S. Ca., R. A. Kinloch; Tenn., Duncan Eve; Texas, J. F. Y. Paine; Ver., A. T. Woodward; Va., G. B. McCorkle; W. Va., G. W. Baird; Wis., W. T. Galloway; U. S. A., Ely McClellan; U. S. N., J. C. Speir; U. S. M. Hosp., W. Wyman; Dakota Ter., J. B. Van-Velsor; New Mexico, W. R. Tipton.

It was announced that they would meet at 11 A.M. Dr. Nicholas Senn. Chairman of the Section on Anatomy and Surgery, then delivered the Address

A protest was made by a delegate from Tennessee

against Dr. Eve serving on the Nominating Commit-taining subscriptions, which have been limited by tee from Tennessee, as the Society from which he resolution of the Association to one dollar from each came had been protested against.

the Section on Obstetrics and Diseases of Women, may be made by persons interested in this great unthen delivered the Address in Obstetrics. (See p. dertaking. 561, JOURNAL of May 22.)

Vice-President A. Y. P. Garnett then took the Chair, and Dr. A. L. GIHON, Chairman of the

#### RUSH MONUMENT COMMITTEE,

read the report:

Your Committee begs to report that in obedience to your resolutions on the 30th of April, 1885, at the thirty-sixth annual meeting of the Association at New Orleans, La., the Rush Monument Committee has been instituted by the appointment of one member from each of the States, Territories and National services represented in the Association; and the Standing Committee thus organized will forthwith proceed upon the duty intrusted to it by the Association, to wit: the collection of funds, etc., for the erection of a statue to Dr. Benjamin Rush, in the City of Washington, by the members of the profession of medicine in the United States.

Your Committee, appointed at Washington, in 1884, by the lamented Dr. Austin Flint, in its report presented at New Orleans, enumerated the monuments which have already been erected at the National Capital in commemoration of the men who have contributed to the National renown, and stated that appropriations had also been made by Congress for statues to Lafayette and Garfield. Since that report, and doubtless in consequence of it, various public bodies have proposed similar memorials to their great leaders. The Church, already represented in the person of Martin Luther, is to have its statue to Wesley. The deaf mutes have taken action toward the erection of a monument on their beautiful Kendal Green to their eminent teacher, Gallaudet. Philanthropy is to have its marbly effigy of Peabody, and the intrepid explorers, who have lifted the curtains of dense jungle and rugged mountains upon new lands, are to be personated in him who, greatest of them all, led the way to this New World; while Grant and McClellan, Hancock and Shields, McDonough and Barry, are to be added to the already long array of Presidents and military and naval heroes.

With statesmen, rulers, soldiers and sailors, the scientist and the philanthropist, the discoverer and the teacher, the jurist and the divine, all given prominence among the adornments of this beautiful Capital City, no further time should be lost by the medical profession in completing its enduring testimonial of one who was not only a great physician and teacher of medicine, philosopher, philanthropist, and accomplished writer, but a fearless patriot and founder of the Republic, a signer of the Declaration of Inde- to A.M., prayer being offered by Rev. R. G. Brank, pendence, an officer of the army of the Revolution, and one of the authors of that Federal Constitution under which we now happily live.

With this announcement, the Rush Monument Committee will at once undertake the work of ob- the following

member of the profession of medicine in the United Dr. S. C. Gordon, of Portland, Me., Chairman of States, and receiving such voluntary donations as

All of which is respectfully submitted.

For the Committee:

ALBERT L. GIHON, M.D., Ch'n. GEORGE H. ROHÉ, M.D., Sec'y. J. M. TONER, M.D., Treasurer.

I am directed by the Rush Monument Committee to report to the Association the election of Dr. Geo. H. Rohé, of Maryland, to be Secretary, and of Dr. Joseph M. Toner, of the District of Columbia, to be

In accordance with the instituting resolution the following members, resident in and near Washington, constitute, with the Chairman, an Executive Com-

Albert L. Gihon, U. S. N., Chairman; George H. Rohé, Baltimore, Md.; Joseph M. Toner, Washington, D. C.; Henry H. Smith, Philadelphia, Pa.; Chas. Smart, U. S. A., Washington; Preston H. Bailhache, U. S. M. H. Service, Baltimore; Samuel J. Jones, Chicago, Ill.

I am also directed to report that the Committee has adopted rules for the collection and responsible expenditure of the funds collected for the purpose of the monument, and has determined upon Riggs' Bank, at Washington, as the depository of said funds.

Respectfully submitted.

ALBERT L. GIHON, Chairman.

On motion, the report was accepted.

Dr. I. N. Quimby called up the amendment to the amendment to the By-laws creating a

#### SECTION ON MEDICAL JURISPRUDENCE,

and offered a motion that it be adopted.

After some debate it was adopted.

The Committee of Arrangements presented a number of invitations, which were read and accepted. A communication from the Texas State Medical

Association was received and ordered on file.

Dr. W. Bishop, of Pa., moved that the President be requested to announce, with the title of a paper and the name of its author, the time allowed for its reading. Rejected.

An invitation to meet the American Climatological Association next week in Philadelphia was read.

On motion of Dr. N. S. Davis the Association adjourned until Thursday morning.

#### THURSDAY, MAY 6.—THIRD DAY.

THE PRESIDENT called the Association to order at D.D.

The Committee of Arrangements reported invitations to visit places of interest.

The Committee on Nominations then nominated

#### OFFICERS FOR 1887:

President-Dr. E. H. Gregory, St. Louis, Mo. 1st Vice President-Dr. E. H. Miller, of Stillwater, Minn.

2d Vice-President-Dr. W. B. Welch, of Boones-

boro, Ark.

3d Vice-President-Dr. William H. Pancoast, of Philadelphia.

4th Vice-President-Dr. William C. Wile, of New London, Conn.

Permanent Secretary-Dr. William B. Atkinson, of Philadelphia.

Assistant Secretary-Dr. J. Nevins Hyde, of Chi-

cago, Ill. Treasurer—Dr. R J. Dunglison, of Philadelphia. Librarian-Dr. C. H. A. Kleinschmidt, of Wash-

ington, D. C.

Committee on Necrology .- Dr. J. M. Toner, of District of Columbia, Chairman; Ala., Jerome Cochran; Ark., C. Watkins; Cal., Beverley Cole; Col., T. H. Hawkins; Conn., Frank H. Whittemore; D. Colum- Secretary, Walter Wyman, U. S. M. H. S. bia, C. H. A. Kleinschmidt; Del., Lewis P. Bush; Fla., R. B. Burrows; Ga., R. Battey; Ill., L. H. Montgomery; Ind., J. F. Hibberd; Iowa, J. Williamson; Kan., C. V. Mottram; Ky., R. M. Farleigh; La., J. W. Duprè; Me., A. J. Fuller; Mass., M. G. Parker; Md., T. B. Evans; Mich., S. S. H. French; Miss., B. F. Kittrell; Mo., L. Bremer; Minn., W. W. Mayo; Neb., E. M. Whitten; N. H., J. J. Berry; N. J., I. N. Quimby; N. Y., John Shrady; N. C., Engene Grissom; Ohio, J. F. Baldwin; Pa., D. G. Brinton; R. I., C. W. Parsons; S. C., R. A. Kinloch; Tenn., J. Y. Crawford; Tex., J. W. McLaughlin; Ver., E. F. Upham; Va., George B. McCorkle; W. Va., J. H. Pipes; Wis., S. S. Riddell; U. S. Navy, J. C. Speir; U. S. Army, M. K. Taylor; U. S. Mar. Hosp. Service, H. S. Austin; Dak. Ter., J. B. Van Velsor; N. M., G. W. Hansom.

Committee on State Medicine.—Ala., G. A. Kitchen; Ark., J. A. Dibrell, Jr.; Cal., F. H. Terrill; Col., P. R. Thomas; Conn., Geo. B. Porter; D. Columbia, J. D. Patterson; Fla., E. T. Sabal; Ga., J. A. Mc-Gaston; Ill., J. H. Hollister; Ind., J. H. Beasley; Iowa, P. W. Lewellyn; Kan., S. Schenck; Ky., Wm. Bailey; La., C. W. Day; Mass., M. C. Ledwood, Ira Russell; Md., John Morris; Mich., H. B. Baker; Miss., M. S. Grafft; Mo., J. M. Allen; Minn., W. A. Stenchfield; Neb., A. R. Mitchell; N. H., G. P. Conn; N. J., E. L. B. Godfrey; N. Y., E. S. F. Arnold; N. C., C. J. O. Hagan; Ohio, H. J. Sharp; Pa., W. Sniveley; R. I., W. T. Parker; S. C., C Kolbrock; Tenn., J. B. Nowling; Tex., C. H. Wilkinson; Ver., H. D. Holton; Va., J. E. Chancellor; W. Va., S. D. Wilson; Wis., C. Alexander; U. S. N., A. L. Gihon; U. S. A., E. McClellan; U. S. M. H. Service, W. H. Long; Dak., J. B. Van Velsor; N. M., W. R. Tipton.

Members of Judicial Council .- N. S. Davis, Ill.; H. Brown, Ky.; William Brodie, Mich.; D. J. Roberts, Tenn.; R. C. Moore, Neb.; T. A. Foster, Me.; James A. Gray, Ga.

A. Garcelon, Me.; L. S. McMurtry, Ky.

Place of next meeting, Chicago, Ill., the first Tuesday in June, 1887; Chairman of the Committee of Arrangements, Charles Gilman Smith, M.D., of Chicago, Ill.

On motion the report was unanimously adopted.

#### OFFICERS OF SECTIONS.

Surgery and Anatomy.—Chairman, H. H. Mudd, St. Louis; Secretary, John B. Roberts, Philadelphia. Practice of Medicine.—Chairman, J. S. Lynch, Md.; Secretary, J. B. Marvin, Ky.

Obstetrics and Diseases of Women.—Chairman, F. M. Johnson, Mo.; Secretary, W. W. Jaggard, Ill.

Ophthalmology, Otology, and Laryngology. Chairman, X. C. Scott, Ohio; Secretary, J. H. Thompson, Mo.

Diseases of Children.—Chairman, DeLaskie Miller, Ill.; Secretary, W. B. Lawrence, Ark.

Oral and Dental Surgery.—Chairman, J. S. Marshall, Ill.; Secretary, E. S. Talbot, Ill.

State Medicine.—Chairman, G. H. Rohé, Md.;

Vice-President Logan took the Chair, and Dr. A. L. Gihon read the following

#### REPORT ON THE PRESIDENT'S ADDRESS.

Your Committee to whom was referred those portions of the address of the President of the Association embodying suggestions of action on your part beg to report:

1. That in their opinion it is proper and desirable that this Association shall without delay memorialize Congress in behalf of the pending resolution to appoint a scientific commission of three members of the profession of medicine to visit the habitats of yellow fever in Cuba, Mexico and Brazil, with a view to determine the validity of the claims of Drs. Carmona and Freire to have discovered a means of preventing or modifying attacks of that disease.

2. That your committee are not agreed among themselves as to the suggested recession from the recommendation of the use of the metric system in

3. That they heartily approve of the suggestion of the President that the Association having created a Section on Medical Jurisprudence, shall further establish a Section on Dermatology and Syphilis.

4. That they concur with the President as to the wisdom of the provision that the several Sections shall elect their own officers from among the men of recognized authority and experience in the special work of such Sections, and they are further of the opinion that the efficiency of these Sections will be enhanced by the continuance in office from year to year of the Secretaries of said Sections.

5. That they endorse the views of the President respecting The Journal of the Association, and the exclusive proprietary interest of this Association in the papers and reports which are made part of its

6. That the Association should emphatically denounce the endorsement by certificate, advertisement, testimonial or indirect approval in any form, Trustees of The Journal. - P. O. Hooper, Ark.; of proprietary remedies and appliances, and should instruct the Judicial Council to take action in all such cases without formal presentation of charges, over Europe and perhaps reach this country, it has that, in the words of the President: "The stigma of been thought desirable to continue the observations tised as the endorser of any patent, secret or propri- at the next annual meeting of the Association. etary medicine.

Association.

cordially cooperate in the effort to make the Ameri-States.

All which is respectfully submitted.

JOHN H. MURPHY, Minnesota, ALBERT L. GIHON, U. S. Navy, ALONZO GARCELON, Maine,

Committee.

Dr. Gihon moved its adoption.

Dr. J. F. Hibberd, Ind., objected to its adoption, the Committee, read the and Dr. J. B. Murdoch moved that it be read in sections.

Dr. W. T. Bishop, Penn., moved that it be postbusiness.

the previous question, which was sustained. The taken the report was adopted as a whole.

The President then resumed the Chair.

ISH MEDICAL ASSOCIATION.

and as far as practicable all the other elements of custom or habit. the investigation have been continued. Sufficient interesting report, but on account of the apparent and fold more after death. tendency of epidemic cholera to extend westward

professional disgrace shall rest upon any regularly and records undertaken until the apparent cholera educated physician who allows his name to be adver-season has passed by. A full report may be expected

In relation to Collective Investigations of Disease 7. That it is desirable that the Association shall in connection with the Committee of the British appoint a Committee at this meeting to consider the Association, it is proper to state that your Committee advisability of amending the organic law of the As- acting in harmony with both the Committee of the sociation by the establishment of Branches or in British Association and the Committee of the Eighth whatever other way may be deemed best, and to International Medical Congress appointed at Copenreport thereon at the next annual meeting of the hagen, have had a large number of convenient blanks with necessary instructions, asking for observations 8. That they earnestly re-echo the wish of the and records concerning the more important diseases. President that the members of the profession will selected jointly by the Committee of the British Association and that of the International Congress, discan session of the International Congress creditable tributed to members of the profession in this country, to the country and attractive and instructive to the asking them to fill the blanks as far as possible and foreign visitors, sacrificing their personal and private return the same to the Chairman or Secretary of the piques and disappointments in generous emulation Committee on or before January, 1887, for the purto contribute to that success, which had been uncon- pose of enabling the Committee to tabulate and anaditionally pledged in the invitation tendered the for-lyze the results for both the next meeting of this eign members of the Congress to meet in the United Association and for the Ninth International Congress at Washington, September, 1887. The foregoing statement of progress is respectfully submitted.

By N. S. Davis, Chairman of Committee.

On motion the report was adopted.

Dr. James M. Keller, of Arkansas, Chairman of

#### REPORT ON CREMATION.

It will be remembered, Mr. President, that at the poned, and made the first special order under new meeting held at St. Paul four years ago, I first brought the subject of cremation before the Association in the After some further discussion Dr. E. Smith called shape of a resolution, asking its reference to the Committee on State Medicine. Each year since it question, "Shall the main question now be put," was has been called up and purposely referred back withadopted by a large majority, and the vote being out discussion, until at New Orleans it was referred to a special Committee to report to-day, and your Committee respectfully submit this paper. Since the Dr. Edward Jackson, of Philadelphia, called for subject was first mentioned it has become one upon the report of the Judicial Council on the Philadel- which much thought and deliberation have been given, phia County Medical Society. The President an- not only in this, but in other countries, and much has nounced that it was now in the hands of the Council. been written in advocacy of it, not only by the med-Dr. N. S. Davis, Chairman, then read the Re- ical profession, but by people in all the walks of life. PORT OF THE STANDING COMMITTEE ON METEOR- Secular and religious journals, as well as medical, OLOGICAL CONDITIONS AND THEIR RELATIONS TO THE have all discussed it. Indeed, so much has been Prevalence of Diseases, also Concerning the written about it, and all in its favor, that your Com-Subject of Collective Investigation of Disease mittee deem it unnecessary to do more than offer one IN COOPERATION WITH THE COMMITTEE OF THE BRIT- or two reasons why fire should be substituted for earth burial-why immediate and complete destruc-In behalf of the Standing Committee on Meteor-tion of disease germs should supplant their dangerous ological Conditions and their Relations to the Preva-lence of Diseases, the undersigned would respectfully rid practice of earth burial does more to propagate report progress. The Signal Service of the General the germs of disease and death, and to spread desola-Government has kindly continued to furnish the tion and pestilence over the human race, than does reports from the several stations originally selected, all man's ingenuity and ignorance in every other

Not satisfied with doing all the evil we can in life, materials have been accumulated for a valuable and custom up to the present time makes us do a thous-

From the moment the heart ceases to beat and vi-

tality leaves the body of man or brute, decomposition, of all objectionable features. At an early day only inexorable in its laws and hideous and horrible to a few minutes of time will be necessary to give back contemplate, begins-in every phase of its decay, to loving survivors all that is worth preserving-a few slow, repugnant and dangerous even to beasts of the pounds of harmless pure, clean, white ashes. A profield; and in no way does earth burial check or im- cess (the only safe one) the quickest, simplest and pede, but on the contrary, under certain atmospheric cheapest, leaving no vestige that is repugnant, offenand climatic conditions rapidly aid and nourish the sive or injurious-strictly in conformity to nature's death dealing germ. It only hides from sight the laws-accomplishing in a few moments what putrefacdanger that sooner or later we take into our stomachs with each draught of spring or well-water, or into our lungs with each inspiration. Mr. Darwin, in a original resolution so that it may read: paper written on the formation of mold, proved that in many places the whole superficial layer of earth dead has become a sanitary necessity in all populous has passed through the intestines of worms. In some cases more than three inches of it had been deposited in fifteen years, and in another the depth in eighty years had reached thirteen inches.

investigations of Pasteur on the Etiology of Chorbon, in which he shows that this earth mold, brought up by worms over the graves of its dead, abounded with which was sustained, and having been agreed to the the same specific germ which propagated the disease, report was adopted by a majority of 150 to 106. and these same organisms filled the intestines of the worms. Who dares deny the assertion that the earth lion in order that the report, which was in some sense burial of any body, dead of a zymotic disease, is objectionable, might be more fully discussed. The simply the planting of the seeds of such disease, sooner or later to grow and reproduce itself and other pestilential troubles among survivors? Dr. Friere in his investigations of the cause of yellow fever in Rio State Medicine. de Janeiro found the soil of cemeteries in which its victims had been interred, absolutely filled with microbism organisms, identical with those found in the information why the report of the Judicial Council vomit and blood of his patients who had died with it. Mother earth a foot below the surface, indeed from clared out of order. the surface to the body, swarmed with the characterthose cemeteries as the nurseries of the disease.

The fatal delusion that the earth renders harmless and innocuous the corpse must be dispelled. Incontrovertible proof of the fact that the vicinity of graveyards is unhealthy is superabundant. That the dead do kill the living is equally true, and that cholera, yellow fever and the whole list of zymotic and infections diseases are propagated by contaminating the earth and air and water supplies, is as true as that sewer gas or sewage water do propagate disease, additional testimony, and all interested were invited Point to a city if you can, whose growth has demanded the removal of the dead from its cemetery, that will not attest the truth of the rapid production of disease and death in all neighboring localities. God's halfacre must become a thing of the past. The graveyard must be adandoned. The time has come for us to face squarely the problem, how to dispose of our dead with safety to the living. And your Committee has an abiding faith that you will earnestly and at once say, that the "earth was made for the living, not for the dead," and that "pure air, pure water and pure be requested upon their return to their homes to soil" are absolutely necessary for perfect health. Only skeptics deny that the dead do poison these three essentials of human life.

of "fire burial." Modern cremation alone is stripped ington in 1887.

tion after burial never does.

In conclusion your Committee begs to amend the

Resolved, That cremation or incineration of the cities, and that this Association advise its adoption as far as practicable. J. M. KELLER,

S. Logan. A motion having been made to adopt the report, Strongly confirmatory of these conclusions are the Dr. A. Y. P. Garnett moved to lay it on the table, which was negatived.

Dr. I. N. Quimby called for the previous question.

Dr. T. A. Reamy, of Ohio, moved a reconsideramotion for reconsideration was carried by 198 to 70.

On motion of Dr. John Morris, of Md., the report with its conclusions was referred to the Section on

Dr. J. B. Roberts, of Penn., offered a motion that the Permanent Secretary be instructed to give official was not given on Wednesday. The motion was de-

Dr. Roberts then appealed from this decision, and istic germ. Hence his justification in characterizing the vote being taken the Chair was sustained by a vote of 191 to 25.

Dr. James T. Whittaker, Chairman of the Section on Practical Medicine, Materia Medica, and Physiology, then delivered the Address in Medicine. (See

JOURNAL of May 15, p. 533).
On motion of Dr. J. M. Toner it was resolved that the Association be requested to return to the Judicial Council the report in the case of the Philadelphia County Medical Society, for the purpose of hearing to appear before the Judicial Council then in session.

Dr. John H. Rauch, of Illinois, Chairman of the Section, then delivered the Address in State Medicine, which was referred for publication.

ENTERTAIMENT OF THE INTERNATIONAL CONGRESS IN 1887.

On motion of Dr. A. Y. P. Garnett, seconded by Dr. D. W. Yandell, it was

Resolved, That the delegates to this Association adopt such means as may to them seem best to call the attention of their respective delegates to the Congress of the United States to the desirability of Embalming and mummifying are equally as unsafe, making an appropriation to assist the medical profesand surely far more disgusting than earth burial, and sion of this country in properly receiving and enterequally as repulsive was the ancient German custom taining the International Medical Congress in Wash-

# Dr. R. I. Dunglison then read the

#### TREASURER'S REPORT.

DR. RICHARD J. DUNGLISON,	TREASURER, IN	ACCOUNT WITH	THE AMER-
ICAN MEDICAL ASSOCIAT	TON.		

1885,			DR	
May 5, To cash balance, as per report at New Orleans meeting	7932	11		
delegates and permanent members, less exchange		25		
April 30, to cash from annual dues and subscriptions paid Treasurer to date to cash from subscriptions, advertisements,	8,305	00		
&c., paid at office of publication to cash from sales of Volumes of Transac-	0,358	34		
tions, etc	99	69 \$	18,567	30
Cr. 1885.		7	,5-,	37
May 16, By cash paid Dr. Samuel Logan, Chairman Committee of Arrangements New Or- leans meeting, expenses for rental,				
printing, etc		25		
Secretary, expenses of travel, postage, expressage, as per order of the Assoc'n by cash paid Dr. R. J. Dunglison, Treasurer,	127	00		
expenses of travel, postage, etc., as per order of the Association	123	57		
postals etc	22	75		
July 10, by cash paid Wm. F. Fell & Co., printing				
slips, postage, etc	. 10	75		
addressing circulars	82	75		
" by cash paid Attemns & Co., printing, etc	. 4	70		
" by cash paid Dunlap & Clarke, printing " by cash paid J. S. Brownus, packing and	2	50		
expressing Vols, of Transactions from New York	. 2	59		
Culars and stamped envelopes	45	05		
circulars, etc	45	47		
Transactions	4	74		
Nov. 13, by cash paid Wm. F. Fell & Co., printing	12	50		
" by cash paid stamped envelopes and postage	. 22	70		
Mar. 9, by cash paid postage, stationery, etc., to date	39	84		
Mar. 21, by cash paid Wm. F. Fell & Co., printing circulars, postals, etc.	. 9	00		
April 30, by cash paid postage, expressage, envel opes, etc., to date	25	70		

by cash paid Dr. N. S. Davis, publication work to date....by cash paid exchange and commissions to

49 28 378 39 \$18,567 39 collectors.

May 7, 1886.
This certifies that we have examined the accounts of receipts and expenditures of R. J. Dunglison, Treasurer of the Association, and find the same correct. May 7, 1886. ALONZO GARCELON, | Auditing L. S. McMurtry, | Committee,

# Dr. C. H. A. Kleinschmidt read the

#### LIBRARIAN'S REPORT,

which was adopted, including its recommendation of an appropriation of \$10 for the Index Medicus.

By request the report of the Committee on Publication was made the first special order of business for Friday.

Dr. A. L. Gihon offered an amendment to the By-laws to create a Section on Dermatology and VENEREAL DISEASES. This must lay over until 1887. On motion of Dr. Gihon it was

Resolved, That a committee of nine members, including the President elect and the four Vice-Presi- as organized under the amendment adopted at this dents elect, shall be appointed by the Chair to session, announced that they had chosen the followconsider the various propositions looking to the ing officers: President, l. N. Quimby, of New Jeramendment of the organic law of the Association by sey; Secretary, H. H. Kimball, of Minnesota. the ESTABLISHMENT of BRANCHES, or in any other | 1)r. Chas. K. Mills, of Philadelphia, moved that

way, said Committee to report at the next annual meeting what measures of reorganization, if any, may be desirable.

On motion the Association adjourned until Friday

at 10 A.M.

#### FRIDAY, MAY 7-FOURTH DAY.

THE PRESIDENT called the Association to order at 10 A.M., and prayer was offered by Rev. W. V. Tudor, D.D.

General W. T. Sherman having entered the room was invited to a seat on the platform, in accepting which he made a few appropriate remarks.

The President announced the following as the

# COMMITTEE ON BRANCHES:

The President-elect, the four Vice-Presidents elect, Drs. N. S. Davis, J. M. Toner, and A. L. Gihon.
The Permanent Secretary read the following on

behalf of J. McF. Gaston, of Atlanta, Georgia.

WHEREAS, Authentic reports have been published. indicating that inoculation with the attenuated virus of yellow fever has afforded protection from this disease in more than 6,000 persons, residing in the same localities with others not inoculated who died during an epidemic of yellow fever in Rio de Janeiro, Brazil, and

WHEREAS, Other evidence of the efficacy of vellow fever inoculation is corroborated by the statements of Dr. Horace M. Lane, a member of this Association now present, to the effect that he was inoculated by Dr. Domingos Freire in Rio de Janeiro and remained in that city without contracting the disease, while many others who were not thus inoculated were attacked and died; and further, that he had the opportunity of verifying the protective influence of inoculation against yellow fever in numerous other cases under his observation, and

WHEREAS, The facts in regard to the results of this prophylactic against yellow fever warrant the conviction that it is trustworthy and safe in practice, therefore

Resolved, That the American Medical Association recommends prompt action by the United States Government for the investigation of the claims of inoculation against yellow fever; and the appropriation of the means requisite for the expenses of the same, with the appointment of a medical and scientific commission to undertake this inquiry.

Resolved, That a committee of three be appointed by the President to memorialize Congress in accord ance with this recommendation at the earliest day practicable.

The President announced the following as the Committee: Drs. J. McF. Gaston, of Atlanta, Ga., P. O. Hooper, of Little Rock, Ark., and T. G. Richardson, of New Orleans, La.

#### THE SECTION ON MEDICAL JURISPRUDENCE,

the order of business be suspended to allow the Judicial Council to report, and for other business. On

Dr. J. M. Toner, Chairman, then read the

REPORT OF THE TRUSTEES OF THE JOURNAL.

The Board of Trustees for the publication of THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION respectfully submit the following as their Annual Report for the year ending March 31, 1886:

For reasons fully stated in the last report the financial year is made to include the receipts and expendtures of The Journal for the fourth quarter of the second year and the first three quarters of the third year of its publication.

At the earnest solicitation of the Trustees, Prof. Davis consented to continue his labors as editor-inchief during the last year, and under his general supervision THE JOURNAL has been issued regularly and without a single exception either at or before the date of its publication has been mailed to members. At the last annual meeting the Trustees instructed the Business Committee to commence the publication of THE JOURNAL upon the account of the Association when the then existing contracts should expire. Accordingly for the last nine months THE JOURNAL has been so published. The details of this work were committed to the editor, and are so fully set forth in his annual report to the Trustees that we desire to incorporate it in our report to the Association. It is as follows:

The undersigned respectfully submits the following of the quarter. statements in regard to the progress of THE JOUR-NAL OF THE AMERICAN MEDICAL ASSOCIATION and its present status, financially and otherwise:

Weekly Circulation.—At the date of my last annual and 120 to exclanges and advertisers.

ers, we have uniformly encouraged the change.

Receipts.—The receipts at the office of publication relate only to receipts from subscriptions, admotion of Dr. J. B. Hamilton this was laid on the vertisements, reprints, and extra JOURNALS; all membership dues being sent directly to the Treasurer, and will be accounted for in his annual report. From the sources indicated there has been received at this office during the year ending March 31st, 1886, the sum of \$5,330.46; of which \$2,738.29 were from subscribers, \$2,165.07 from advertisers, and \$427.10 from those ordering reprints and extras; all of which has been paid to the Treasurer.

Assets.—During the three past years there has accumulated unpaid subscriptions amounting, at the date of this report, to the sum of \$5,435.00. Onehalf of this will be paid with reasonable certainty by the end of the present JOURNAL year. The remaining half, however, is due from parties who became subscribers by signing and returning the original pledges that were sent out before the commencement of the publication, and who, in answer to the many bills sent, have made many fair promises and yet paid nothing thus far. I had intended to erase all the names of those who had paid nothing at the commencement of this year. But during the last quarter a number have remitted \$15 for the whole three years, and it encouraged me to let the list remain to the end of the present volume, in hopes that many more of them might succeed in fulfilling their promises in the same manner. None of the receipts for advertisements during the third quarter of the present Journal year, ending March 31st, amounting to about \$700, is included in this report, for though all good, it is not all paid until after the close

Expenses. - The total cost of publishing THE JOURNAL, 4,500 copies weekly, during the year ending March 31st, 1886, not including editorial salary and expenses, is \$11,410.77, of which \$2,906.76 was report, March 31st, 1885, the total regular weekly for the fourth quarter of the second year of publica-circulation of The JOURNAL was 4,020, of which tion, leaving \$8,504.01 for the first three quarters of 3,050 were members of the Association as reported the third year of publication. But it should be stated to this office by the Treasurer, 850 were subscribers, that in this amount, for the three quarters of the current year, is included the paper and press-work of At this date, March 31st, 1886, the total weekly reprints, amounting to \$427.10, which was returned circulation is 4,271, of which 3,374 are members of to the treasury in full by those for whom the reprints the Association as returned by the Treasurer, 645 were made. Deducting the sum received for the subscribers, and 252 to foreign and domestic ex- reprints, it makes the cost of publication of The changes and advertisers. The net increase in the JOURNAL for the first three quarters of the current membership during the year has been 324, the net year, \$8.076.91, and a total for the year ending decrease in subscribers 205, and the increase of exchanges, chiefly foreign, and foreign correspondents, less than the cost of publication the preceding year, 132; thereby giving a net increase in the regular and yet the weekly issue this year is 300 more than weekly mail list of 251 during the year. The num- last year. The saving, however, belongs entirely to ber of JOURNALS printed each week during the year the last three quarters of the year, and is owing to has been 4500, being 300 in excess of the previous two causes: First, the reduction of postage on secyear, and 229 in excess of the regular mail list. Part ond-class mail matter has reduced the aggregate of of these have been required for use as sample copies postage during the last nine months about \$300, or and extras to contributors, leaving on hand about 75 at the rate of \$400 per annum. Second, the change copies of complete files. The decrease in the num-from the publication by contract, to the publication ber of subscribers is occasioned almost entirely by in our own printing office, which was commenced deaths and the change to members by application. last June, effected a saving of \$836.51 since the first Regarding it preferable to increase the permanent of July, 1885, or at the rate of \$1,115.34 for the year membership rather than the list of simple subscrib- ending June 30th, 1886. If we make the proper allowance for the 300 additional copies weekly printed

this year, it increases the amount of actual saving for office and in more regular and extensive foreign and the year to \$1,500.

The total amount drawn from the treasury for the payment of editorial work, which includes foreign and has disappointed us during the past year has been in domestic correspondence, reports of medical society the receipts from advertising. We committed this proceedings, clinical lectures, etc., and for assistant department to the management of a general agent editorial work proper, during the year ending March who was familiar with medical advertising, and who 31st, 1886, is \$3,115.10, making the total expenses agreed to pay The Journal a uniform price for each for THE JOURNAL for the year ending March 31st, 1886, \$14,098.77, and the total receipts, as shown by the report of the Treasurer, \$18,567.39.

At the last annual meeting of the Board of Trustess I was authorized, on the expiration of the then existing contracts for printing THE JOURNAL, to purchase the necessary amount of type and fixtures and crease in the aggregate of members and subscribers establish a printing office owned and conducted ex-receiving The Journal the past year. But if it is clusively in the interest of The Journal, and superintended by a competent foreman. Accordingly, in June, 1885, I purchased of the Illinois Type Fonn-sociation have encountered first the defection of the dry Co. type and fixtures for direct use in printing New York New Code party, followed during the last THE JOURNAL to the amount of \$668.87, and paid year by the extensive opposition on account of the for carpenter work and labor in fitting up the office controversy about the International Medical Conand placing the printing material in position, \$101.15. In August it became necessary to reprint the whole mail list for directing wrappers, and I purchased of show that the aggregate increase of members and Marder, Luse & Co., Chicago, plain, cheap type, so that the whole mail list, when set up, could be kept permanently on the galleys and permit all changes and additions to be made with the same facility as in correcting proof. This cost \$274.86, and will serve the purpose for several years at little cost. The aggregate amount thus expended to fully equip the will serve their purpose for several years.

An accurate inventory of the value of the property now on hand in good order is as follows:

Printing material in	use for THE JOURNAL use for the mail list as fitting.	253.52
	en t	

\$800.00.

In an earlier part of this report it has been shown that by the establishment of THE JOURNAL'S own printing office, the publication expenses of THE JOURNAL during the year ending March 3 st, 1886, have been \$1,136.51 less than under the contract system of the previous year, being a saving of \$52.57 more than the entire cost of the printing materials now on hand and in good order for future use.

During the last nine months that THE JOURNAL better order than formerly.

About \$350 more has been expended for editorial

domestic correspondence.

The only department of THE JOURNAL work which page that he could fill, and make all his own collections. He was confident that he could much increase our revenue from that source. But such has not been the result, and a better arrangement must be effected for the future.

Some may be disappointed at the moderate inremembered that since The Journal was established less than three years since, The Journal and the Asgress, it will rather be a matter of surprise that we have had any increase whatever. But the figures subscribers has considerably exceeded the discontinnances, and with the disappearance of these temporary subjects of controversy the increase will be much greater annually.

Respectfully submitted. N. S. DAVIS,

Editor of Journal of American Medical Association. In reviewing this report and the enterprise it is of printing office for good work was \$1,044.88, which is interest to note that contrary to what might have not included in the foregoing figures in regard to the been expected, owing to differences among our procost of publication of The JOURNAL during the past fessional brethren, the circulation of The JOURNAL year, because these materials constitute permanent has not fallen off, but has increased so that the list property, and with trifling additions from time to time has increased 251. The weekly issue of THE JOUR-NAL during last year was 4,200. During the present year it is 4,500. The cost of publication, not including Editor's salary, for the former year was \$ 2,120.18; for the present year it is \$11,410.77, showing a net decrease of expenses of \$709.41. To this should be added amounts received during the present year from the sale of reprints, etc., which give a net saving to I hold an insurance policy on this property for of \$1136.51, although 300 more copies were published. The entire cost of the plant for publishing THE JOURNAL and all expenses on its account to this date have been \$1,044.88, so that in the savings of the last nine months, the entire outlay has been paid, leaving a balance of \$91.63 as compared with last year. With regard to editoral salary, your Trustees are authorized to expend a sum annually not exceeding \$6,000. But they have been unanimous in the opinion that no debts should be incurred on account of the publication of The Journal, which its office has been in operation and under the care of receipts would not warrant. Much to their regret, Mr. J. Harrison White, our foreman, every number they have been compelled to limit the amount paid issued has been committed to the United States mail for all editorial work, including foreign and domestic on or before the date of its publication, and in much correspondence to the sum of \$3,115.10 for the past year.

We are not unmindful of, what THE JOURNAL labor the year just closed than during the preceding, should be, or of what it will be, whenever its receipts owing to the employment of more writers, both in the will warrant such outlay as is made in the develop-

ment of medical journals published in the interest of private parties. The Trustees are confident that the tion of privilege, asked the President to rule as to success of the experiment of publishing The Jour- the present status of the Philadelphia County Medi-NAL on the account of the Association fully war- cal Society. The President decided this to be out rants the continuance of the same general policy, of order. and while they will summon to his aid all the editoral help which the finances of the Association cal Society was received and ordered on file. will warrant, they have solicited Dr. Davis to continue his present relations with THE JOURNAL, and we are happy to state that he has consented to remain its Editor.

Dr. A. Garcelon announced that the accounts had been audited and found correct.

DR. J. M. Toner then read the

REPORT OF THE JUDICIAL COUNCIL.

St. Louis, May 6, 1886.

In the case of Protest against the admission of delegates from Tri-State Medical Societies, the Coun- ing resolutions: cil would state that our constitution recognizes only State Societies, and County, District and local Societies which are affiliated with the State Society. Delegates from Tri-State Societies are therefore not tion offered by Dr. John Morris, of Baltimore, Md., entitled to admission.

In the case of Profest against the registration of sociation: delegates from the Davidson County Medical Society, of Tennessee, after careful examination of printed, American Medical Association concerning the use written and oral testimony and thorough consideration and abuse of alcohol and its effects upon the body, of the same, the Council decide that sufficient evi- and recommend the study of hygiene in all our pubdence has not been presented to warrant denying lic schools. To facilitate this study we urge the registration to said delegates, but it also hereby ad- speedy passage by the House of Representatives of monishes the Davidson County Medical Society, as the Senate Bill now before it, requiring instruction in soon as practicable, to place itself in more explicit the effects of stimulants and narcotics in schools affiliation with the Tennessee State Medical Society.

The Protest against the registration of delegates therefore the Council, in accordance with its rules, can take no action upon it.

A protest against admission to membership of Dr. W. Dixon, of Henderson, Ky., is also presented without any evidence accompanying it, and its treatment, pointed to further consider the subject of cremation, must be the same.

In the case of Protest against the registration of Section at the next annual meeting of the Association. delegates from the Philadelphia County Medical Society, which upon petition was reopened to admit Chairman of the Section, before the Association in new testimony, after a long and careful re-examination, including evidence not before presented, the ferred to the Section for consideration, the following Judicial Council decide that, notwithstanding the fact resolution offered by Dr. Albert L. Gihon, U. S. that said delegates hold documents usually entitling. Navy, was adopted and directed to be reported to to registration, it also appears, in evidence, that the the Association: methods employed at their election were of such an irregular character as to compel their rejection as of the Chairman in his address before the Associadelegates by the Council.

The Council would also suggest the return of any dues which may have been paid to the Treasurer by said delegates.

papers accompanying it to the Philadelphia County Medical Society for adjudication.

> J. K. BARTLETT, Secretary of Judicial Council.

Dr. Edward Jackson, of Philadelphia, as a ques-

A communication from the California State Medi-

Dr. Eugene Smith, of Michigan, Chairman of the Section, then delivered the Address on Ophthalmology, Otology and Laryngology. Referred.

Dr. W. D. Haggard, of Tenn., Chairman, delivered in brief the Address on Diseases of Children.

Dr. John S. Marshall, of Chicago, Chairman, read by title the Address on Oral and Dental Surgery. Referred.

The Committee on Necrology reported that as usual most of the necrological notices had been published in The Journal, as others would be.

The Section on State Medicine sent in the follow-

The memorial of the West End Woman's National Christian Temperance Union having been referred to the Section for consideration, the following resoluwas adopted and directed to be reported to the As-

Resolved, That we reaffirm the utterances of the

under Federal control. The report of the Chairman of the Committee on from the Mississippi Valley Medical Association is Cremation, Dr. James M. Keller, of Arkansas, having accompanied by no charges or specifications, and been referred by the Association to the Section for consideration, the following resolution offered by Dr. G. S. Franklin, of Ohio, was adopted and directed to be reported to the Association:

> Resolved, That a committee of this Section be apwith instructions to report their conclusions to the

> The address of Dr. John H. Rauch, of Illinois, general session, Thursday, May 6, having been re-

Resolved, That in accordance with the suggestions tion, the American Medical Association direct the Section on State Medicine to prepare and report at the next annual meeting, a form of law regulating the conditions requisite as preliminary to the study The Council also refers the Protest and all the of Medicine, the requirements for graduation, and for the license to practice medicine, to be urged upon the several States in order to secure uniformity in methods and results throughout the United States.

These resolutions were adopted.

The President announced as the

SPECIAL COMMITTEE ON CREMATION

Drs. J. M. Keller, Ark., John Morris, Md., F. Formento, La.; Samuel Logan, La., and G. S. Franklin.

On motion it was

Publication Committee in the order of the first day's until 1887. proceedings.

sider was also voted down.

The Permanent Secretary read the following list of

#### DELEGATES TO FOREIGN SOCIETIES:

10 medical organizations of Europe, Drs. N. S. Davis, Ill.; W. W. Dawson, Ohio; Donald McLean, Eugene Smith, and Wm. Brodie, of Mich.; B. A. Watson, of N. J.; W. T. Briggs, Tenn.; W. H. Pancoast, James C. Wilson and John V. Shoemaker, of Penn.; L. H. Montgomery and J. L. Gray, Ill.; E. H. M. Sell and E. Cutter, N. Y.; S. C. Gordon, Me.; and G. C. Catlett, Mo.

Ontario Medical Association, H. O. Walker, Mich. Canadian Medical Association, Wm. Brodie, Mich. Dr. John B. Roberts then offered his resignation as Secretary of the Section on Surgery; accepted.

On motion of Dr. W. B. Atkinson the Chairman of the Section was authorized to fill the vacancy.

On motion of Dr. A. E. Baldwin, Ill., that as the resolution introduced by Dr. Roberts are a reflection ence to them be expunged from the minutes.

Dr. Edward Jackson, Penn., having offered a prowas not a regularly accredited delegate, and the pro-

test was unanimously laid upon the table.

was taken standing, and was unanimous.

On motion of Dr. A. Garcelon, seconded by Dr.

L. B. Todd, Ky., it was

seat of education, refinement, and the fine arts.

to the ladies of St. Louis for the elegant social en directed, is that the nutritive activity of the parts af-

tertainments we have enjoyed at their hands, and as an acknowledgement we can only say, God bless the ladies of St. Louis.

Dr. J. M. Keller offered an

AMENDMENT TO THE BY-LAWS,

Resolved, That hereafter the Committee of Ar- making the officers of the Sections again nominative rangements be requested to place the report of the by the Committee on Nominations. To lay over

Drs. N. S. Davis, Ill., and J. B. Johnson, Mo., Dr. John B. Roberts having offered a series of having been appointed for the purpose, conducted questions, on motion of Dr. A. Octerlony, of Ky., the President elect, Dr. E. S. Gregory, of St. Louis, they were laid upon the table with but one dissenting to the Chair. He was introduced by the President, voice. A motion by Dr. J. B. Hamilton to recon- and in taking his place returned thanks to the Association for the honor conferred upon him.

The President then bade the members farewell in a felicitous manner, and declared the Association W. B. ATKINSON, M.D., adjourned.

Permanent Secretary.

# FOREIGN CORRESPONDENCE

LETTER FROM PARIS.

(FROM OUR OWN CORRESPONDENT.)

Bad Effects of Cocaine in Glaucoma-Société Franeaise d'Ophthalmologie-Henri Legrand du Saulle.

Like most good things in this world, cocaine, which has been so enthusiastically adopted in ocular therapeutics, has proved to have had its reverses, as pointed out by Dr. Javal, at a recent meeting of the Academy of Medicine. It is known in ophthalmic practice that the instillation of atropine into an eye upon our excellent President and Secretary all refer- affected with glaucoma, or even predisposed to that affection, produces a most disastrous effect, and often brings on paroxysms of violent pain in the eye. Altest, it was objected by Dr. Brinton, Penn., that he though this fact is known, yet atropine continues to be applied in glaucomatous affections, but it is presumed only in cases where there has been an error Dr. N. S. Davis offered a resolution of cordial thanks in diagnosis. According to Dr. Javal, cocaine proto the Chairman of the Committee of Arangements, duces the same deplorable results, for in many cases the local officers, and the people of St. Louis from that came under his own observation the condition whom the Association had received such kind treat- of glaucomatous eyes had become aggravated by the ment. By the suggestion of Dr. Octerlony the vote use of this agent, and that in certain cases in which the symptoms of glaucoma were scarcely perceptible, cocaine rendered them more marked. These symptoms, however, may be successfully combated by the Resolved, That the thanks of the Association is employment of eserine. Dr. Javal prefers the latter hereby tendered the medical profession and citizens in the form of gelatine discs to that of solution, as of St. Louis for the cordial and generous reception being more convenient. These remarks offer a very we, as members, have received at their hands, and great interest in ophthalmic practice, and also as rewe take this occasion to assure them that we take gards the pathogenesis of a malady concerning the our departure with regret, bearing with us the highest nature of which there is still such a diversity of opinestimation of the generosity and liberality of its citi- ions. Divers theories have been proposed to explain zens, the beauty and healthfulness of its location, at the action of cocaine, and while certain authors, as the junction of the two longest and largest navigable Pflüger, attribute the anæsthetic effect to direct acrivers of our continent, in the centre of one of the tion of the drug on the terminal fibres of the fifth most extensive and fertile agricultural regions of the pair of nerves, others, like Eversbusch, think that the world, rendering it one of the great commercial and contraction of the smaller arteries and the capillary manufacturing centres of the nation, as well as a anemia which results are probably the essential cause of the loss of sensibility.

Resolved, That our especial thanks are extended The practical fact on which attention should be

fected is for some time diminished, and that when enervation should certainly be preferred, because in this nutrition is already weakened, as in persons old producing the same effect the organ of vision is preand debilitated, the free use of cocaine exposes the served in its place, which is of course of inestimable patient to certain risks as regards the vitality of his value, even though the function be destroyed. As tissues. Hence, it would be imprudent to permit for exenteration, he rejects it in toto on the grounds old and enfeebled persons to employ solutions of that the ciliary nerves might become painful and cocaine except under the direct control of a medical man.

I have taken these remarks from La France Médicale, which were published in that journal by Dr. Chevallereau, a rising ophthalmologist, who also gave one or two examples that came under his own observation, of the danger attending the indiscriminate use of eocaine. Among others I may eite the case of a young man aged 20 years, who had been treated for syphilis contracted at Senegal. The patient had a very severe attack of exudative iritis accompanied with increased intra-ocular tension, and the most intense pain, which induced the doctor to practise paracentesis of the cornea. A two per cent. solution of coeaine had been instilled into the eye four times at intervals of five minutes before the operation. After the paracentesis, a compressive bandage was applied which was removed only the next morning. The patient went on well, he passed a good night, DOMESTIC CORRESPONDENCE but during the last fortnight the pains were so intense that they prevented sleep. The wound in the cornea healed, but there was in its immediate vicinity a slight cloudy infiltration of the cornea. The doctor prescribed the renewal of the instillations of atropine, but the nurse who was attending the patient dropped into the eye by mistake a solution of cocaine, which she repeated five times during the day. The next morning the cornea became opalescent for about two-thirds of its extent. Fortunately the error was discovered in time, when the atropine was resorted to, and in two days after all was right again.

The "Société Française d'Ophthalmologie" held its annual meeting at Paris from the 27th to the 20th of April, under the Presidency of Professor Gunning, of Amsterdam, when many interesting papers were a month afterward had several attacks of acute par-read before the Congress. The first subject brought oxysmal pain, one of which was of intense severity. to notice was that of Dr. Dianoux, of Nantes, on After that pregnancy apparently progressed in a per-"The Treatment of Sympathetic Ophthalmia," and feetly normal manner until the middle of June, when submitted for consideration three methods of treatment in a surgical point of view, viz: Exenteration, lieving herself to be in labor, she sent for her physienucleation, enervation. Of the three methods Dr. cian, who found that the uterus was empty, and that Dianoux gives the preference to enervation, on the a tumor had developed outside of it. following grounds: In the first place, it is less dangerous than the other two operations. In an esthet-dominal pregnancy was discussed, the diagnosis of ic point of view, it is interesting to know that after this condition was not made by any of a number of enervation the eye does not become atrophied, and physicians who saw her until she came to this city in that in consequence it preserves the satisfactory ap-February, 1885, and consulted Dr. Fordyce Barker. pearance of a normal organ. Moreover, it should Drs. Thomas and Lusk also saw the case in consultnot be forgotten that enucleation is often rejected ation, and they concurring in the opinion of Dr. by patients with horror, who on the contrary readily Barker, the patient was advised to return to New accept an operation like enervation. This operation York in the following June or September, for the consists in dividing all the nerves which go to the purpose of having laparotomy performed. This adglobe of the eye, the optic nerve being included.

nerves of the eye that this operation is efficacious. caemia from putrid absorption. If, then, the effect of the two operations is identical, In the following autumn her health appreciably

serve as conductors to sympathetic phenomena, and the lymphatic sheaths would remain open to all sorts of infection. From the debate that followed some prefer enucleation (Abadie and Galezowski), others exenteration (de Wecker). Galezowski stated that of 600 enucleations, he had only two cases which proved fatal, one of which was eaused by hæmorrhage, which it was impossible to stop.

I have just received a notice to attend the funeral of Dr. Henri LeGrand du Saulle, who died on the 5th inst. at the early age of 56 years, from cerebral congestion. He was a very distinguished member of the profession, and besides being physician to the Salpetriére Asylum, he held many official appointments appertaining to his specialty as an alienist, in which capacity he was one of the leaders.

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Extra-uterine Fatation - The Etiology of Potts' Disease-Foreign Bodies in the Œsophagus-Alumni Association of the Woman's Hospital-New York Academy of Medicine.

At the last meeting of the New York County Medical Association, held May 17, Professor Wm. T. Lusk made a very impressive address on the subject of Extra-uterine Fatation; his remarks being based on a case which presented many points of unusual interest. The patient was a lady of Wisconsin who ceased to menstruate in September, 1883, and about

Although the possibility of the existence of abvice was not followed, however, and after her return Enucleation, Dr. Dianoux states, does not act in she suffered from what was supposed to be remittent any other way than as a preservative against sympa-fever, but which Dr. Lusk had no doubt, from the thetic ophthalmia, and it is by the division of all the conditions found at the autopsy, was in reality septi-

failed. The pulse became very full and rapid, and process of extraction both the parietal bones dropped she had a good deal of diarrheea, as well as nervous off. The cutaneous and muscular tissues were almost disturbance. In December she was advised to go entirely destroyed, and all the internal organs were South and live out of doors as much as possible; but found to be shrivelled up. Hypodermic injections by the time she arrived at Atlanta she was unable to of whisky were constantly kept up, and the patient by the time she arrived at Atlanta she was unable to of whisky were constantly kept up, and the patient leave her room, and remained thus confined for three was alive at the conclusion of the operation, which months. She grew worse all the time, but in the lasted about half an hour, as it was performed with early spring succeeded in reaching New York alive. Dr. Lusk was called to attend her, and was at once struck with the marked change which had taken place was placed in bed, and rallied fairly well. The patient was and was extremely anemic. The pulse was quick, normal now for the first time. For the first twenty-and there was a rise of temperature given were proportionally the patient of the patient was a rise of temperature given were proportionally the patient of the patient was a rise of temperature given were proportionally the patient of the patient was a rise of temperature given were proportionally the patient of the patient of the patient was a rise of temperature given were proportionally the patient of the patient and there was a rise of temperature every evening. four hours there seemed a slight hope that she might There was also constant diarrhea, or else diarrhea recover, but after that time she grew rapidly worse, alternating with constipation. Very shortly a men- and died thirty-six hours after the operation. strual period came on, and this was attended with At the autopsy it was found that the uterus, the most marked constitutional disturbance. The which was in the rear of the tumor, was about the temperature ranged from 103° to 104°, the pulse size of an ordinary virgin uterus. The Fallopian was extremely feeble, and there was enormous distube of the left side extended over to the sac, and tension of the abdomen. The husband, however, its fibres were lost in the walls of the latter; showing assured Dr. Lusk that there was no occasion for that the case was, no doubt, originally one of tubal pregnancy, the tube bursting at the time of the attacks noticed at previous menstrual periods, and had been successfully rallied from. It was agreed, therefore, that she should be removed to the shad was to the latter; showing assured Dr. Lusk that there was no occasion for pregnancy, the tube bursting at the time of the attacks of paroxysmal pain. There was not the slightest sign of peritonitis, but the sac was so strongly adherated to the investigate that it is the control of the pregnancy. that she should be removed to St. Elizabeth's Hospi- ent to the intestines that it took Dr. Biggs, who made tal, and that one week before the expected time of the autopsy, about half an hour to separate the adthe next menstrual period an operation should be hesions. It was therefore evident that it would have performed; this time being decided on in order to been practically impossible to remove the tumor allow her to recuperate as far as possible from the entire from the abdominal cavity. exhaustion incident to the serious febrile condition mentioned.

were not verified, and from this time she declined All the authorities say that these tumors should not steadily in health and strength. Drs. Thomas and be removed until the health begins to decline. The Barker were called in consultation, and agreed with danger was, that if the evidences of septicamia were Dr. Lusk that, on account of the exhausted condition not distinctly recognized, operative interference was of the patient, an operation offered no hope of reapt to be delayed until it was too late. The reason covery—the chances in its favor being about one in often given for delaying to operate was, that in the a thousand. The idea of operating was, therefore, course of time the fœtus would probably be converted abandoned; but later the husband, having learned into a lithopædion; but statistics showed that the from Dr. Lusk that it was impossible that his wife, in number of cases in which this occurs is relatively her present condition, could survive another men-very small. The presence of the foetal tumor in the strual period, insisted that the operation should be abdomen was always a source of constant pain and

(however remote) of recovery. his will, he performed laparotomy. The incision was appearance of symptoms indicating that the constitution of the median line, below the umbilicus; and it was noticed that the severed tissues were entirely bloodless. The abdominal walls being then cut all the patients recover when the operation is underthrough, the tumor was observed, with portions of taken at an early period. In itself it was not a the fœtus shining through. It was found to be en-dangerous procedure, and the bad results which had tirely free from adhesions to the abdominal walls, and been noted in so many instances were due simply to tunately, as the sequel proved, this was not attempted; denoting putrid absorption was almost always insidiand when an incision was made into the sac, a quan- ous, and there were very few cases in which marked ounce of pus. The tumor was stitched to the abdominal walls, and the greatest possible care taken resulted in the degeneration of all the parenchymato prevent the escape of any portion of the contents tous organs.

This case, Dr. Lusk remarked, was chiefly interesting from the fact that the patient fell a victim to Unfortunately, however, the husband's predictions what he believed to be wholly erroneous teaching. undertaken, as offering the only possible chance distress. As a matter of humanity, therefore, the child ought to be removed soon after it has ceased to Accordingly, on the 19th of March, much against live; instead of being allowed to remain until the on this account the question arose whether it would the fact that operative measures were adopted only not be advisable to remove the tumor entire. For- as a last resort. The development of the symptoms tity of exceedingly fetidgas escaped. There was no symptoms were presented until quite late in the hisfluid present, with the exception of about half an tory. The effect of the vicious process going on in

of the sac into the cavity of the abdomen. The back of the feetus was turned uppermost, and in the tribution to the Etiology of Potts' Disease, in which

he stated that he was among those who look upon but had afterwards learned that the same device had traumatism as the exciting and necessary cause, which previously been used by a medical officer in the in a constitution already vitiated need be much less British East India Service. severe to produce spinal or other lesions than in a person of vigorous health. A considerable portion reported by Dr. C. B. Hutchings, of Cailfornia, in of the paper was devoted to the class of cases in which an open penknife passed successfully through which the disease commences on the sides of the the alimentary canal; the patient, a young man of bodies of the vertebræ, at the point of their articu- 20, being advised to eat principally of such food as lation with the ribs, and not in their anterior portion; mush and buckwheat cakes, in order to distend the as is commonly the case. They were usually caused bowels and prevent their being injured in the passage by some violence applied to the rib, which originated of the knife through them. He also referred to the an inflammatory process at its articulating facet on case reported recently to the New York Surgical Sothe spinal column. These cases were more than ciety by Dr. A. G. Gerster, in which a metallic butordinarily obscure in the beginning, and were difficult ton three-quarters of an inch in diameter was swallowed of diagnosis, as pressure on the head and crowding by an infant 6 months old, and became imbedded the vertebræ together seldom caused pain, and the between the trachea and œsophagus. child could run, and even sometimes jump, without pain, and could often bend the body without incon of Stephenson, Jr., the famous engineer, who swalvenience. In conclusion, he related a case of this lowed a half-sovereign, which passed into the trachea, kind of great interest, and his father, Prof. Lewis A. and finally lodged at the bifurcation of the latter. Sayre, also made some remarks in regard to it.

which he said constituted a contribution to the sub-ject of Foreign Bodies in the Alimentary Canal. A with his head down. A sharp blow was then given gentleman, 71 years of age, had removed it from his upon the soles of the feet, and the plan proved so rectum three months after it had been swallowed, efficacious that the coin was jerked completely out It was an inch and a quarter in length, seven eighths of his mouth. Dr. Arnold also told of a case full of of an inch in breadth, and eleven-sixteenths of an jack-knives in every stage of decomposition and abinch in thickness. The case was interesting from the sorption, all of which came from a sailor who was fact that this large and sharp-pointed body caused no ambitious to emulate the feats of a juggler whom he pain or distress whatever in passing through the in- once saw at Liverpool. He lived for nearly two testinal canal. Dr. Gouley then related a case which years after commencing the practice of swallowing occurred in his service at Bellevue Hospital. The jack-knives, and at the autopsy the knives and parts patient was a man suffering from delirium tremens of knives were found in various portions of the inwho died soon after admission, and at the autopsy testinal canal. the pericardium was found filled with flaky lymph. When the heart was lifted up a metallic substance was May 20, Dr. Edward G. Janeway read a memoir of felt, and on opening the esophagus, this proved to the late Dr. Gaspar Griswold, and also a paper on be a plate with two teeth attached. Dr. Gouley also the diagnosis of diseases of the heart. mentioned a number of instances, mostly taken from Eve's Surgical Cases, in which enormous objects man's Hospital held its second meeting, when a such as forks, spoons, and egg-cups, were swallowed, number of interesting papers were read; and in the and in some instances passed successfully through evening Dr. T. Gaillard Thomas tendered the Assothe body. One of these was a case occurring in ciation a reception at his new and beautiful resi-1807, in which a patient swallowed a teaspoon, dence on Madison Avenue, just completed which which was successfully extracted one month afterward proved to be a most delightful house-warming. which was successfully extracted one month afterward. by Dr. Samuel White, of Hudson, New York, who performed laparotomy, made an incision in the ileum, lished in The JOURNAL of May 1st, that a Fellow of and, after removing the spoon, sewed up the intestine the New York Academy of Medicine who was interand the external abdominal wound.

alimentary canal.

Dr. Lewis A. Sayre referred to a number of interwhich illustrated the use of the bristle or umbrella and from, as he supposed, an absolutely reliable probang, and the President, Dr. C. A. Leale, told of source. It is now evident, however, that the latter Sayre said that for a considerable time he had sup any one by him, he makes this correction with posed that the bristle probang was original with him, pleasure.

The Secretary, Dr. Porter, related a case recently

Dr. E. S. F. Arnold referred to the celebrated case Sir Benjamin Brodie and others tried in vain to re-Dr. J. W. S. Gouley then exhibited a peach-pit move it; but at length it occurred to Sir Charles

At the meeting of the Academy of Medicine, held

On the 10th the Alumni Association of the Wo-

The statement made in the New York letter pubviewed by a certain member of the Council told that Dr. John H. Hinton said that a negro in his em- gentleman to "go to h-ll," proves, after all, to be ploy once swallowed a peach pit, and having taken a incorrect. It is learned on the highest authority that dose of easter oil passed it by the anus the next day; the Fellow referred to was perfectly courteous in all thus affording a remarkable example of an extremely that he said, and that no language in any way aprapid passage of a large foreign body through the proaching the character of that reported was used during the interview. Your correspondent would not, of course, have mentioned the matter at all had esting cases occurring in his own experience, some of he not secured the alleged facts in a direct manner, the successful passage of a two-cent piece through was misinformed, and as it is his aim to present only the intestinal canal of an infant 9 months old. Dr. the simple truth, and that no injustice should be done

The proposed amendment to the constitution providing that the Academy may suspend or expel a Fellow for "the commission of any act which unfavorably affects the character of the medical profession or the interests of the Academy," will probably be acted on at the first meeting in June.

P. B. P.

#### NECROLOGY.

#### GREENBURY R. HENRY, M.D.

DR. GREENSBURY RIDGELY HENRY, of Burlington, Iowa, died on May 14, 1885, of disease of heart and lungs. Dr. Henry was the son of Dr. John Flournov and Lucy S. (Ridgely) Henry, and was born at Hopkinsville, Christian County, Ky., on September 28, 1828.

He obtained his education at Jacksonville, Ill., studied medicine with the late Prof. Gross, and graduated at the Medical College of Louisville on March 5, 1849. He entered upon the practice of his profession in Burlington in 1850, and soon established an enviable reputation for learning and skill in his profession; a reputation that increased with his years. He was well known throughout the State as a leading member of the profession. For several years he was a member of the School Board of Burlington, reelected again and again, giving evidence of the public estimation of his peculiar fitness for the place. The State also honored him with the appointment as trustee of the Hospital for the Insane—this position he held at the time of his death.

Aside from his superior professional qualification and attainments, and his great worth as a healer of the ills of his fellow men, he was a liberal and energetic citizen, ready at all times to invest his earnings in public enterprises, and thus aid and promote the growth of the City of which he was a most valuable

Dr. Henry was a man of bright intellect, a high Capt. Wm. F. Carter, Asst. Surgeon, granted leave of absence of honor, and undoubted integrity. He was sense of honor, and undoubted integrity. He was a physician of learning and skill, always thoughtful and kind, particularly to the younger members of the profession. He was a warm and steadfast friend, a thoroughly good man. In 1850 he was married to Catherine Chambers, of Jacksonville, Ill. She survives him with several children. The Board of Trade, the Des Moines Medical Society, the School Board and several other organizations held special meetings and passed resolutions of respect for the memory of Dr. Henry, and attended his funeral.

#### MISCELLANEOUS.

WISCONSIN STATE MEDICAL SOCIETY .- This Society will hold its annual session of 1886 in Madison on June 1st and 2d. Many papers of interest are announced. The railroad rates are full fare going and one-fifth returning, on presentation of certificates of attendance from the Secretary.

PREVENTION OF THE INTRODUCTION OF CONTAGIous Diseases.—In order to assist local authorities in the maintenance of quarantine against the introduction of infectious diseases, as provided in Section 4792, Revised Statutes, the act of April 29, 1878, and appropriation acts authorizing the President to maintain quarantine at points of danger, the President has determined to establish, by means of the vessels of the Revenue Marine, a National patrol of the coast of the United States, so far as it may be practicable under existing law and consistent with the performance of the other duties confided to that service.

The following regulations will be observed relative to the inspection of vessels: If a vessel be found with sickness on board, or in a foul condition, she will be directed to proceed to quarantine station hereinbefore indicated, and the revenue-marine officer will immediately notify the proper quarantine officer. In such case no person will be permitted to board the vessel until the medical officers in charge of the quarantine shall have given the usual permit. Should the pilot or master of a vessel, when hailed, report cases of recent or present sickness on board, the revenue officer will not board, but will send her immediately to quarantine.

Quarantine officers will be recognized as follows, Medical officers are acting assistant surgeons of the Marine Hospital Service in charge of Gulf, South Atlantic, Cape Charles, or Delaware Breakwater quarantines, or any officer of said service on duty at any port on the interior rivers, the Great Lakes, or Pacific coast, and all quarantine officers acting under proper State or local authority.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM MAY 15, 1886, TO MAY 21, 1886.

Capt. F. W. Elbrey, Asst. Surgeon, sick leave of absence still further extended one year on surgeon's certificate of disability. (S. O. 115, A. G. O., May 17, 1886.)

apply for an extension of one month. (S. O. 55, Dept. Tex., May 11, 1886,)

Capt. John M. Banister, Asst. Surgeon, assigned to duty as Post Surgeon, Ft. Canby, W. T. (S. O. 75, Dept. Col., May 8, 1886.

First Lieut. C. B. Ewing, Asst. Surgeon, relieved from duty at Ft. Leavenworth, Kan., and ordered for duty as Post Surgeon, Ft. Supply, Ind. Ter. (S. O. 48, Dept. Mo., May 13, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING MAY 27, 1886.

Law, H. L., Surgeon, ordered to the U. S. R. S. "Wabash," Hawke, J. A., Surgeon, detached from U. S. R. S "Wabash" and await orders to sea.

Ogden, F. N., Asst. Surgeon, detached from U. S. S. "New Hampshire" and wait orders.

Baker, J. W., Asst. Surgeon, ordered for examination preliminary to promotion.

Woodruff, Charles E., commissioned Asst. Surgeon in the Navy May 17.

Henry, Charles P., commissioned Asst. Surgeon in the Navy May 18.

# Journal of the American Medical Association.

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No. 23.

# ADDRESS IN SURGERY.

THE PRESENT STATUS OF ABDOMINAL SURGERY.

BY N. SENN, M.D.,

OF MILWAUKEE, WIS.,

ATTENDING SURGEON TO THE MILWAUKEE HOSPITAL; PROFESSOR OF THE PRINCIPLES AND PRACTICE OF SURGERY AND CLINICAL SURGERY IN THE COLLEGE OF PHYSICIANS AND SURGEONS, CHICAGO, ILL.; CHAIRMAN OF THE SURGICAL SECTION OF THE AMERICAN MEDICAL ASSOCIATION FOR 1886.

(Concluded from page 598.)

VIII. Gastrotomy.-The indications for gastrotomy have multiplied with the advances of modern

which the operation has been performed:

disease of œsophagus. 3. Non-malignant stricture compress. of æsophagus. 4. Cicatricial stenosis of pylorus. for more than thirty days. Of 22 cases proving fatal with gastric digestion or by producing perforation. soon after the operation, 12 died of diffuse peritonitis, Under these circumstances the operation is completand 3 of phlegmonous inflammation of the abdominal ed by suturing the wound in the stomach after the walls.

object the formation of a gastric fistula, it is of some a double row of sutures to secure more efficient and tors have had recourse to Fenger's incision, about obtaining primary union in the shortest space of time. two inches below and parallel to the left costal arch. Gussenbauer removed, by gastrotomy, a sword-blade Sédillot recommends an incision which should cor- 27 ctm. in length and 2 ctm. in breadth. respond to a point over the middle of the anterior patient, unfortunately died of septic peritonitis, due surface of the stomach, claiming that the subsequent to a perforation of the posterior wall of the resophatraction upon the cicatricial band in this locality gus 14 ctm, above the cardiac orifice of the stomach, would be reduced to a minimum, at the same time and another perforation in the fundus of the stomach there would be no risk of injury to any important r ctm. in width. Billroth removed successfully a blood-vessels. Larger argues in favor of making the set of false teeth in the same manner, and the patient fistula as near the cardiac end of the stomach as pos- recovered without any untoward symptoms. sible, and nearer the lesser than the greater curvature the stomach may become the receptacle of strange of the organ. Berger and Championniere assert that and most disgusting substances is well illustrated by clinical experience and post mortem examinations the cases recently reported by Scheenborn and have shown that the opening is usually made near Thornton, where gastrotomy was successfully perthe pyloric orifice of the stomach, irrespective of the formed for the removal of large masses of hair. Both particular method of operation selected by the sur- patients were hysterical females. In Schenborn's geon. They also believe that a fistula in this locality case the mass of hair weighed 281 grammes. That does not impair the functional result. When a gas-tric fistula is to be established, the operation should Thornton, who has collected eight recorded cases

be done in two sittings. The preliminary operation consists in making abdominal section, stitching the parietal peritoneum to the skin, thus protecting the soft tissues against phlegmonous inflammation by contact with infectious substances, and fastening the anterior surface of the stomach with Lembert's sutures to the margin of the wound, so as to secure adhesions between the visceral and parietal peritoneum before the organ is opened. After two or three days firm adhesions have formed, when the operation is completed, by making a small incision through the wall of the stomach. Experience has shown that when the incision is large, it is difficult to prevent aggressive surgery. The following are conditions for the escape of the contents of the stomach through the fistula even by ingenious contrivances, while a 1. Extraction of foreign bodies. 2. Malignant small opening is readily kept closed by a well-fitting

I. Extraction of Foreign Bodies.—When a foreign Alsberg has collected 107 cases in which the opera-body has become lodged in the stomach, and its pretion was done with a view to establish a permanent sence can be ascertained by a well defined comgastric fistula for the following conditions: Carci- plexus of symptoms, or by physical examination, no noma 72, syphilitic stricture 2, cicatricial stenosis 16. time should be lost in removing it by gastrotomy, as Of this number, 24 patients survived the operation the foreign body may produce death by interfering extraction of the foreign body, in the same manner Gastric Fistula.—When the operation has for its as an intestinal wound, using the precaution to apply importance to know at what point the stomach can perfect coaptation of the margins of the wound and be opened most advantageously by interfering least serous surfaces. Absolute and complete physiologiwith its functional capacity. The majority of opera- cal rest of the organ is an essential condition for

where post-mortem examination revealed that the had become greatly emaciated.

relief attempted.

obtained by gastrotomy for the purpose of prolonging life in cases of carcinomatous stenosis of the œsophagus are not such as to entitle the operation to the dignity of a justifiable procedure, and yet it must be a source of comfort to the surgeons who continue to perform it to know that the mortality which attends it has greatly decreased since the antiseptic treatment of wounds has been introduced. Zesas, for instance, has collected all cases of gastrotomy before and since the antiseptic treatment of wounds was practised. During the preantiseptic period, thirtyone operations were performed, with the result that only in one case was life prolonged by the operation (Iones).

Of 131 cases operated upon under antiseptic precautions, 28 terminated favorably as far as the operation was concerned. In 104 cases carcinoma of the cesophagus furnished the indication for the operation, of which only 17 recovered from the immediate effects of the operation. With such a fearful mortal ity, it becomes a serious question whether the operation is ever justified under the circumstances. Zesas, as the result of his investigations, advises that the operation should be performed early, before the patient has been prostrated from the effects of the disease. It behooves the conscientious surgeon to ask himself the question: Am I justified in submitting a patient suffering from an incurable affection to an operation of such gravity, which at best can prolong life only for a short time? Science, statistics and humanity answer with a positive and unqualified " No.

2. Non-Malignant Stricture of (Esophagus.-In nonmalignant stricture of the œsophagus, not amenable to more conservative treatment, gastrotomy should be performed with a view of securing a new inlet for food into the stomach, and for the purpose of affording a more direct route of treating the stricture. So far, the operation has been performed by Caponotto, Fagan, Schede, Cérenville, MacNamara, Davies Colley, and Bryant. Fagan's two cases died. In Schede's and Cérenville's cases, the principal and direct object of the operation-dilatation of the stricture-was not realized. The same applies to MacNamara's Davies-Colley's and Bryant's cases were successful in every respect, as the dilatation of the stricture was accomplished and the permeability of the cesophagus was restored, so as to warrant the closure of the fistula.

Caponotto's case deserves special mention as it illustrates in an admirable manner the indications for the operation, the method of performing it, and its The operation was performed at Turin, September 19, 1884. The patient was a boy, five years of age, who had swallowed by mistake sulphuric acid, five months before the operation. Soon after everything a few minutes after, and in consequence even the most enthusiastic advocate of the operation

The finest olivepresence of hair in the stomach produced death with- pointed bongie could not be passed through the stricout a correct diagnosis having been made or snrgical ture. The abdomen was opened at the usual place for a gastrotomy, and the parietal peritoneum Malignant Disease of Esophagus.—The results united with the skin, and a continued catgut suture that caught only the serous and muscular coat of the stomach, was made to fix the stomach to the wound. An antiseptic dressing was applied. On the fifth day the stomach was opened and food introduced directly into the stomach. The patient improved rapidly. The next step was to dilate the stricture, which was done by combined dilatation by means of sounds introduced both through the stomach and œsopha-After one month's treatment, the œsophagns was permeable to food, and the opening in the stomach was closed by another operation. Four months subsequently the boy died of tubercular meningitis. The autopsy showed that the stomach was slightly adherent to the abdominal wall at the site of the operation. The stricture had its location about two ctm. above the cardiac orifice, as was shown by a white circular cicatrix.

Loreta's method of digital dilatation in non-malignant pyloric strictures is deserving of confidence, and the results so far obtained merit imitation of the

procedure.

3. Cicatricial Stenosis of the Pylorus .- In the operative treatment of cicatricial stenosis of the pylorus, the surgeon can resort to gastrotomy with subsequent gradual or forcible dilatation of the stricture, pylorectomy, or gastro-enterostomy. According to Zesas, gastrotomy for pyloric stenosis has been performed twenty-seven times with eleven recoveries. In these cases, the object of the operation is limited to the direct treatment of the stricture through the gastric wound or fistula. If, after opening the stomach, the stricture can be efficiently overcome by rapid digital dilatation, the visceral and abdominal wounds can be closed. If, however, this object is not obtained, a permanent gastric fistula must be established for subsequent gradual dilatation, until the permeability of the organ has been restored, when the fistula is closed by another operation. It is only proper to remark that the operative treatment of cicatricial pyloric stenosis should be limited to extreme cases of narrow strictures with great dilatation of the stomach, where simpler measures, as a carefully regulated diet, irrigation of the stomach, etc., have proved ineffective in affording relief and maintaining nutrition.

IX. Pylorectomy.—It is only a few years ago since Billroth announced to the world the feasibility of partial excision of the stomach for malignant disease by a successful operation upon a human being. The members of the medical profession throughout the entire civilized world were unanimous in their admiration of the man who had achieved what appeared to be the greatest triumph of modern surgery. The method of operating was modified and improved by other operators, and in a short time the medical journals teemed with accounts of new cases from different sources. At the present time we are in a position the accident, symptoms of stricture appeared. He to decide upon the justifiability of the operation. ate and drank with a good appetite, but vomited In studying the statistics of the cases so far reported, must feel that the expectations which had been antici-time has arrived when we shall be able to make an pated have not been realized. The science and art early positive diagnosis of malignant disease of the of surgery have both been enriched through the stomach, pylorectomy will be resuscitated and will labors of many a bold and enthusiastic operator who find a ready adoption and a hearty welcome on Amerihave demonstrated the feasibility of pylorectomy, but can soil. amenable to surgical treatment.

rectomy for cancer operated upon by Billroth were operation was undertaken. He affirms that resection analyzed by von Hacker as to the pathological con- of a portion of the stomach is a justifiable procedure ditions and the results which were obtained. He di- in arresting hæmorrhage from a perforating ulcer of vided them into three classes: 1. No adhesions, this organ. Czerny treated successfully a case of disease limited to the coats of the stomach. 2. Slight perforating ulcer of the stomach by making an inadhesions which were readily separated. 3. Extencision through the anterior wall through which the sive adhesions and metastatic tumors in adjacent ulcer was made accessible to direct operative treatorgans. Only two of the patients belonged to the first class; one remained well one and three fourths of a year and the other three and one-half years after the operation. In the latter case a tumor returned in has been performed ten times for contracting ulcer the abdominal wall and another in the inguinal region of the stomach with four recoveries and six deaths. which were removed. The second class embraced Cicatricial contraction at the site of operation neseven cases; three died soon after the operation; of cessitated a second operation in one case in less than the remaining four three died four, ten and twelve a year after the excision. The danger of secondary months after operation from return of the disease; cicatricial stenosis would rather tend to indicate the the fourth suffered from return of the disease six superiority of gastro-enterostomy as a primary opermonths after operation. The five cases represented ation in these cases, and more particularly so if the by the third class died from the immediate effects of ulcer or cicatrix is situated in the narrowest portion the operation. It can be therefore seen that a favor- of the stomach, the pyloric orifice. able result can only be hoped for in cases coming X. Gastro-enterostomy.—This operation was dedesire for transient fame.

results. In sixty-one cases of pylorectomy collected three years without recurrence of the disease at the are left unchanged. site of the operation. Kramer has collected eightying seventeen only one proved a complete success. It is a source of congratulation to the surgeons of

the results obtained must also satisfy every conscientious surgeon that the time has come when the operation should be at least temporarily abandoned until improved methods of diagnosis will enable us to rec- the stomach with a portion of the head of the panognize cancer of the stomach early enough to be creas, which was intimately adherent to the posterior surface of the stomach. The ulcer had given rise to 1. Malignant Disease.—Fourteen cases of pylo- stenosis and dilatation of the stomach for which the

within the limitation of the first class where the dis- vised by Wölffler as a substitute for pylorectomy in ease is circumscribed and has not passed beyond the that class of cases where after an exploratory incision limits of the stomach. Every one must admit the it is found impossible to extirpate the diseased pylodifficulties which surround the diagnosis at this early rus. The operation is performed with a view to restage of the disease, and the unwillingness of the pa- establish the permeability of the digestive tract by tient to submit to such a grave operation when he is securing a new outlet to the stomach through the comparatively free from suffering, elements which in medium of a fistulous communication between it and accordance with Billroth's own experience would limit an adjacent loop of the duodenum or upper portion operations to exceptional cases. Such statistics in of the jejunum. An incision is made through the anthe practice of the most eminent surgeon should definitely settle the question in the mind of any surgeon accurately stitched to a corresponding incision in whose humanity has not succumbed to his morbid the intestine by two rows of sutures applied in the same manner as in cases of enterectomy. As com-Statistics from other sources can show no better pared with pylorectomy this operation is easier of execution, affords a wider range of application, and by Dr. Winslow, of Baltimore, 50 per cent. have implies the infliction of less traumatism; while, on died of shock within twenty-six hours, and of the the other hand, it has the disadvantage that the pacases which have recovered not one has lived for thological conditions which necessitated the operation

1. Malignant disease.—The mortality following this two pylorectomies with sixty-one deaths. In seventy-operation is much less than after pylorectomy. Actwo cases the operation was done for carcinoma; cording to von Haeker, Billroth has performed gasfifty-five died soon after the operation, of the remain-troenterostomy nine times in cases of cancer of the pylorus where extirpation could not be practised; of this number five died from the immediate effects of this country that the statistics above quoted are made the operation, and four survived the operation and up almost exclusively of foreign material. While the were improved for a short time. Kramer gives an American surgeon is anxious and ready to adopt all account of sixteen gastroenterostomies for malignant modern innovations and improvements, in this par- disease of the stomach with ten deaths soon after the ticular instance he has shown a degree of conservatism operation; one patient died four weeks after from worthy of his reputation in that direction. When the the effects of secondary tumors; the remaining five

cases lived for several months. In one case Billroth the bowel to be easily drawn forward and stitched to performed pylorectomy and gastroenterostomy simul- the wound. The patient was 43 years of age, whose taneously upon the same patient. After the excision vital powers were near to fatal exhaustion. An inof the pylorus the end of the intestines and stomach cision was made in the median line from an inch were closed with sutures and a new outlet for the below the xiphoid cartilage to within an inch of the stomach was established by gastroenterostomy. The umbilicus. The disease was found to implicate the patient was doing well five weeks after the operation. pyloric end of the stomach, the commencement of From the above accounts of the operation it will be the duodenum and mesenteric glands. The great seen that for malignant disease of the stomach it has omentum was pushed upwards and the upper end of been resorted to only in those grave and desperate the jejunum was drawn forward and stitched to the cases where excision was found impossible, hence we margin of the wound with a double row of silk sucannot speak of permanent results, and although the tures. The remaining portion of the wound was mortality is less than after pylorectomy, it is question- closed in the usual manner. The patient was nourable if the best results that can be obtained by ita few weeks or months of alleviation-will compensate for the immediate risks of life incident to the procedure.

2. Non-malignant stricture of the pylorus.—The future will probably assign the proper sphere of died of exhaustion sixty-six hours after the operation. gastroenterostomy to the treatment of grave cases of The autopsy showed that the intestine had formed non-malignant pyloric stenosis. The exclusion of a firm adhesions to the wound throughout and that no short space of intestine from the digestive tract by inflammation had followed the operation. the establishment of a new pylorus by gastroenterostomy will not interfere with the proper maintenance believes an incision through the left linea semilunaris of health, hence the operation in these cases must be looked upon not only as a palliative but also as a curative measure. The results obtained in this class testine presenting in the wound is that portion exactly of cases are indeed encouraging. Kramer has collected four cases, of which three recovered. In one of Rydygier's cases, a man 20 years of age, the diagnosis was made of ulcus pylori with cicatricial stenosis. When the abdomen was opened the stomach only small quantities at a time and gradually inwas found enormously dilated. Nothing further was creased. When larger quantities are injected they was found enormously dilated. Nothing further was done; the abdominal incision was closed. As the should be given very slowly, so as to allow of their sufferings of the patient continued he begged that being mixed with the biliary, pancreatic, and intestianother operation should be performed. The abdomen was opened again and a communication between The food should be fluid and acid in reaction, the the stomach and duodenum was established by Wölffler's operation, and at the time the case was reported beef-tea. the patient was doing well. From the results already should be recognized as an established and legitimate operation in the surgical treatment of non-malignant pyloric stenosis.

XI. Duodenostomy.-This operation was devised by Langenbuch in 1880 for cases of inoperable stenosis of the pylorus. As the name indicates, it consists in the formation of an external permanent duodenal fistula for the purpose of introducing food through an error of feeding him some food passed directly into the intestinal canal. It was intended into the abdominal cavity, and he died in twelve for cases where the general debility of the patient would preclude the propriety of the more grave operation of pylorectomy. The operation has been performed by Southam and Robertson, but both patients | tion than after gastrotomy, and that the procedure died on the day of operation. It is not probable required less interference, in its performance, with that the operation will be again repeated.

XII. Jejunostomy.—In view of the great mortality disease, Pearce Gould planned and executed the hoped that in the future their application will be

in a lower portion of the intestinal tract at a point of abdominal surgery have been applied in laudable where the mesentery is of sufficient length to permit attempts to afford relief after the disease had passed

ished by rectal enemata and Slinger's nutrient suppositories. On the second day a small incision was made into the bowel through which an ounce each of cream and peptonized beef-tea was injected. The patient continued very restless and became worse and

From the experience furnished by this case he would be preferable to the median incision. The sutures should be so placed that the part of the inopposite the mesentery. The opening in the bowel should be across the axis of the intestine, and only long enough to admit the nozzle of a syringe. food should be administered through the fistula in nal secretions, and to prevent distension of the bowel. best articles being cream and peptonized milk and

Golding Bird performed a similar operation for the obtained it must be conceded that gastroenterostomy same indications some two months later without being aware of Gould's operation. The bowel was opened on the third day, when food was administered solely through the fistula. When the meal exceeded ten ounces it produced indigestion; in smaller quantities digestion and absorption appeared to be performed in a satisfactory manner. The patient improved considerably in health until the ninth day, when hours. The reporter pointed out that by this operation duodenal digestion could be assured, and there was, for physical reasons, less chance of regurgitaother viscera than gastroenterostomy.

Interesting as these operations may be from a of pylorectomy and gastroenterostomy for malignant surgical and physiological standpoint, it is to be operation known as jejunostomy. The object for limited to experiments on the lower animals. I have which the operation is performed is the same as in alluded to the different forms of "ostomies" for maduodenostomy, only that the intestinal fistula is made | lignant disease to show how extensively the principles

beyond the reach of radical measures. As a matter week a microscopical examination of the blood of course the results have been so unsatisfactory that showed a slight increase of the white blood-corpusfuture attempts in the same direction should be aban-cles. The patient was feeling well four weeks after doned as incompatible with the true aim and advance- the operation. The numerous extirpations of the ment of abdominal surgery.

pears to have definitely settled the indications for logical function in the production of blood-corpuscles this operation. As the result of a study of thirty is adequately performed by vicarious organs, so that cases of splenectomy, Credé has come to the follow- we can safely include splenectomy for visceral injuries

ing conclusions:

1. Adults tolerate removal of spleen without per- tablished legitimate surgical procedures. manent ill results. 2. Extirpation of the spleen produces a temporary disturbance in blood production? gall bladder has been made a favorite object of op-3. The diminution in blood production is corrected erative treatment. As patients suffering from affecby a vicarious action of other blood-producing or tions of this organ usually come under the treatment gans, the thyroid gland and the medullary tissue in of the physician at first, a brief consideration of the bone. 4. The physiological function of the spleen improvements in the surgical treatment of affections consists in effecting a transformation of the white of this organ will be of great interest to every phy-

into red blood-corpuscles.

for leukæmia has been reported by Rydygier. The refugium, but to secure a good result the operation extirpated organ weighed six pounds. The patient, when required should be done before the patient's a woman 31 years of age, died on the following day strength is too much reduced. An early operation is of hæmorrhage from the abdominal wound. The the more justifiable as statistics have shown that opligature on the main blood-vessels involved held per- erations upon the gall-bladder are among the safest fectly, and Rydygier ascribed the hæmorrhage to and most satisfactory within the domain of abdominal imperfect coagulation dependent upon the altered surgery. condition of the blood. This case brings the total number of deaths from the operation up to eighteen, of affections of the gall-bladder was indicated by J. of which sixteen were of hæmorrhage and two from L. Petit and Thudichum, it was applied in practice shock. Thus far the only successful case of splenec- almost simultaneously by Sims and Kocher in 1878. tomy for leukæmia is that performed by Franzolini.

As the pathology of splenic leukæmia remains to be explained and the mortality after extirpation has been so fearful, it would appear almost criminal to increase the sad statistics by adding new cases to the

number of failures.

Splenectomy for visceral injury of the organ can show a splendid record, as of twenty cases collected by Zesas of partial or complete removal of a pro-

lapsed spleen all recovered.

disease. The incision was made along the outer margin of the rectus muscle on the left side, from the surface of the liver are important elements in the costal arch to the crista ilii. The pedicle was ligated differential diagnosis. Mr. Taylor, of Birmingham, and the stump dropped into the abdominal cavity. The patient, a female, became more and more anæ-mic for a number of weeks. Four weeks after the scribes a diagnostic line which appears to be of great operation the thyroid gland became swollen and ten-der. The gland returned to its normal condition distended gall-bladder. "This line is to be traced with the general improvement of the patient a few from the normal position of the larger end of the weeks later. Five years after the operation Crede gall-bladder near the tip of the cartilage of the 10th reported his parient as remaining well. The tempor- rib on the right side, to the opposite side of the abary change in the blood had passed away and no domen, crossing the middle line slightly below the abnormal tumefaction of any of the blood-producing umbilicus. In the direction of this line a distended organs could be found.

ctm. of the tail of the pancreas in a woman 43 years be preferred to the more doubtful expedients of exof age who had noticed the tumor for seven years. Ploratory puncture and sounding of the gall-bladder, The growth had been rapid for the last two years. In all cases where a positive diagnosis cannot be The tumor was firmly adherent to the omentum, small made without resorting to these latter diagnostic intestines and pancreas; the latter organ was divided measures, which cannot be said to be free from danger with Paquelin's cautery. The operation was not follor to furnish sufficient information upon which to base lowed by any serious symptoms. During the third a positive diagnosis.

spleen made by Zesas on animals have demonstrated XIII. Splenectomy.—Accumulated experience ap- that it is not an essential organ and that its physioand local diseases of the spleen among the well es-

XIV. Surgery of the Gall-Bladder .- Recently the sician. It requires no argument to show that surgical During the past year a new case of splenectomy treatment should not be resorted to as an ultimum

Although the feasibility of the surgical treatment Sims completed the operation at one sitting; the patient died on the eighth day. Kocher made a preliminary operation by stitching the gall-bladder to the margins of the wound so as to secure adhesions between it and the peritoneum before resorting to incision and drainage. The patient recovered. In the absence of positive signs and symptoms, indicative of biliary obstruction, it is exceedingly important to resort to a most careful examination in determining the existence of an over-distended gall-bladder. The Credé extirpated the spleen successfully for cystic anatomical location of the tumor, its relation to surrounding organs, and its connection with the underwho has had ample opportunity to examine cases of gall-bladder will naturally lie." In view of the com-Billroth extirpated a sarcomatous spleen with four parative safety of an exploratory operation this should

defined methods of operation, viz:

of an external biliary fistula.

and drainage. The evacuation of the gall-bladder is 2. Cholecystectomy.—Ligation of the cystic duct done by aspiration and its wall is subsequently cut to and extirpation of the gall bladder was introduced as the extent of an inch or more. After incision care a substitute for cholecystotomy by Langenbuch. He of their contents.

don, who closed the incision in the gall-bladder one by Corvoisier. after the extraction of three calculi, by means of a Mr. Tait prefers cholecystotomy to cholecystectotopsy the incision in the gall-bladder was found without any risk of opening the peritoneal cavity. securely closed and quite impervious to fluid. He Duodeno-Cholecystotomy.—This term signifies an remarks on this method of operating as follows: "As operation for uniting the gall-bladder and duodenum, regards the method adopted—of dispensing with by an opening between them. It has been sugin the majority of instances.'

The surgical treatment of the diseases of the gall- odical contractions of the gall-bladder might cause a bladder at present includes three distinct and well-giving way of the sutures, and extravasation of bile into the periodical cavity. That these fears are not 1. Cholecystotomy with or without the formation without foundation is well illustrated by the case of cholecystotomy reported by Dr. Parkes. The case 2. Cholecystectomy or excision of the gall-bladder, reported by Dr. Bernays during the last year on the 3. Duodeno-cholecystotomy or the formation of a other hand, demonstrates the advantage of suturing new communication between the gall-bladder and the the gall-bladder and dispensing with drainage, as the patient recovered in a remarkably short time without 1. Cholecystotomy.—At the present time the major- any untoward symptoms and without the inconveniity of operators are in favor of finishing the operation ences of a temporary fistula. As in the majority of at one sitting. According to Keen the incision should cases the safety of the patient is enhanced by the forbe made, as a rule, over the centre of the tumor and mation of an external biliary fistula, which also enparallel to the costal arch. It should be at least three | ables the surgeon subsequently to treat the interior inches in length and enlarged, if need be, afterward. of the gall-bladder and the bile ducts, should this be All hamorrhage must be carefully arrested before required it is evident that immediate closure of the opening the peritoneum. Through this opening the gall-bladder has only a limited sphere of usefulness, gall-bladder and common duct are explored by the and is applicable only in exceptional cases where the introduction of two fingers, or if necessary, the whole permeability of the biliary passages can be demonhand to ascertain the condition of the swelling, its strated at the time of operation. As in all other abrelations to surrounding organs, and so far as possi-dominal operations, the results obtained by Mr. Tait ble, the character of its contents. If a calculus is in the surgical treatment of diseases of the gall-bladfound in the common duct an attempt should be made der stand unsurpassed and preëminent. He performto push it into the duodenum; if this cannot be ac- ed cholecystotomy twenty-one times with as many recomplished it should be forced back into the gall- coveries. From different sources Dr. J. McF. Gaston bladder. If no stone is found present, a distended has collected thirty-three cases of cholecystotomy gall-bladder alone is a sufficient indication for incision with a mortality of 27.7 per cent., nine having died.

must be exercised to prevent escape of bile into the claims for his operation that it is not attended by peritoneal cavity. The margins of the visceral wound any of the risks incident to incision and evacuation are carefully stitched to the abdominal wound and of the gall-bladder, and that in cases of recoveries the cavity of the gall-bladder, and its duct emptied from the operation it prevents the possibility of a recurrence of the disease and that the chances of Immediate closure of the gall-bladder after removal a permanent biliary fistula are never incurred. He of its contents, was first suggested by Spencer Wells has performed the operation five times, with two as appropriate in cases where the surgeon can satisfy deaths, one from acute cedema of the brain, and the himself of the patency of the biliary passages. This other from an ulcerous perforation of the cystic duct. suggestion was carried out by Mr. Meredith, of Lon- Two successful cases are reported by Thiriar and

fine silk thread, introduced as a continuous suture, my, as being an easier and safer operation, and in and inverting the edges of the peritoneal coat. The case a recurrence of the disease makes a second opabdominal incision was closed in the usual way; no eration necessary, he claims that the first operation drainage being employed. This patient died in forty- makes the second easier. It can be done readily eight hours with suppression of urine. At the au- and without any danger through the adherent cicatrix,

drainage—I do not feel inlined to recommend it, algested as a surgical procedure almost simultaneously though there appears to me no reason why it should by Harley and McF. Gaston, in cases of impermeanot succeed in a favorable case, provided always that bility of the common bile duct, while the cystic duct it was possible to ascertain that no obstruction re- is permeable, or may be rendered so by surgical mained in the ducts. This, of course, constitutes the means. In regard to such an operation, Harley chief difficulty, and may be impossible, so that, on says: "The triumph of modern surgery would be the whole, I believe that the more usual plan of drain- to establish an artificial fistula between the gall blading the gall bladder-should be preferred, at all events der and the duodenum. For then not alone would the pent up bile be removed, but the disturbances Mr. Tait has expressed a similar opinion on this arising from the non-admittance of bile into the insubject. He states distinctly that it cannot always testines would likewise be at the same time overcome. be accertained with certainty that the common duct I am not quite sure if, in these days of antiseptic sur-is patent, and if this should not be the case the peri- gery, the operation is not practicable; for I can see no reason why the adjacent surfaces of the gall-blad- cavity. In subcutaneous lacerations of the liver, if der and duodenum should not be eroded by potassa the symptoms are such as to indicate internal hæm-fusa and speedily stitched together." Dr. Gaston orrhage of a serious nature, the only chance to save has made this subject an object of patient and per-life would be to perform abdominal section, and to severing experimentation. In summing up his results control the hemorrhage by direct measures, as withhe says: "Out of fifteen subjects only three dogs out such interference the patient would be almost finally survived the primary operation; yet it will be certain to die of peritonitis, even if he recovered observed that the results of attachment of the gall- from the effects of hæmorrhage bladder to the duodenum and firm union by adhesive From the anatomical structure of the liver it is inflammation between their surfaces, and the forma- easy to conceive that the arrest of hæmorrhage from tion of a fistulous opening through this septum, which this organ is not an easy task. Ligation is out of affords a communication between their cavities."

strated on animals, but its adoption in practice as a of the wound surfaces with catgut sutures traversing legitimate, justifiable operation can only be expected the entire thickness of the organ, would offer a fair

on animals.

—The idea of treating injuries and some of the dis-render suturing impossible, the actual cautery can eases of the liver by surgical means is not a new one, be used to advantage. If this fails to control the as Ceccherilli credits his countryman, Zambeciari, hæmorrhage, we have still left at our disposal one of with having made experiments on animals with such the most reliable and safest means of arresting paren a view as early as 1680. Experiments and clinical chymatous or venous hæmorrhage, in the aseptic tamobservation have shown that injuries of the liver un-pon-a tampon made of iodoform gauze. If an der favorable circumstances are not only repaired, aseptic tampon is to be successful in arresting hambut that in some unaccountable and as yet unex-orrhage, an aseptic condition of the wound is indisplained manner, loss of substance is replaced by re-generation. Thus Ceccherilli reports, among a tic, wounds of the liver rendered accessible to treatnumber of operations, a very interesting case where ment with the tampon by abdominal section, there he performed excision of a portion of the liver, with would be no objection in plugging the wound perthe gall-bladder, in a large hunting dog, with Paque- manently, closing the abdominal cavity with the lin's cautery. The operation was bloodless, and the exception of an opening for a drainage-tube as near animal recovered without any untoward symptom, as possible at a point opposite to the visceral wound, The animal remained perfectly well, and was killed — Drainage in these cases is required on account of 226 days after the operation. The autopsy showed possible extravasation of bile taking place by filtraa cicatrix in the liver at the site of the operation, and tion through the tampon. In the course of time the that the organ had been restored to its former shape aseptic foreign material would become encysted. and size, as was ascertained by comparison with the The use of the tampon for arresting hæmorrhage from liver of a dog of the same size. From the results of the liver was advised by Thesen as early as 1795, his experiments he advises that in no case should and more recently by Brotherson, Demme, and Volkmore than one-third of the size of the liver be excised. mann. In penetrating wounds of the abdomen with To prevent or arrest hemorrhage he prefers the ac-visceral lesion of the liver, the same means may be tual cautery to the elastic ligature and pressure resorted to in arresting hæmorrhage and guarding

are not necessarily fatal, even if no active surgical the aseptic tampon, with drainage. As prolapsed treatment is resorted to has been well established portions of the liver are also usually contused, repoby a number of cases where the bullet was found en-sition, as a rule, is contraindicated, and such portions cysted in the organ, without having given rise to any are better removed with a Paquelin's cautery. symptoms during life, years after the injury had been. As aseptic foreign bodies may become encysted received. Thus Bilguer found a bullet encysted in in the liver as well as in other parts of the body, no Paroisse, and Thompson have each reported a case their removal. All such attempts are attended by where, on autopsy, the bullet was found in the gall-bladder, the patient having died with other affections. These cases and the results of experiments are only care is exercised an increase of traumatism is inevitmentioned with a purpose to show that with proper sur- able. On these accounts a faithful effort should be gical treatment injuries of the liver would not be at-made to secure an aseptic condition of the wound tended by such great mortality as has been the case on so as to obtain the most favorable condition for the the expectant plan of treatment. The two great dan- healing of the wound, and the formation of a capsule gers attending visceral injury of the liver are hæmor- around the foreign body in all cases where extraction rhage and extravasation of bile into the peritoneal cannot be readily accomplished.

question. If the wound has a regular outline and The feasibility of this operation has been demon-involves the border of the liver accurate coaptation after a more safe and expedient method of accom-chance of controlling the hemorrhage. The needle plishing the object has been devised, and its appli-should be round and not quite as large as the thread cability has been demonstrated more satisfactorily of the catgut, so that the punctures would not give rise to additional sources of hæmorrhage. If the XV. Injuries and Surgical Affections of the Liver. wound is irregular or located in such a manner as to

against extravasation. In incised wounds suturing, 1. Wounds.—That gunshot wounds of the liver if possible, should be resorted to, in gunshot wounds

2. Abscess and Echinococcus Cysts.—The treatment abdominal section, in a woman thirty-three years of of the swelling by incision. If the abscess or cyst is and permanent. and most expedient operation.

XVI. Surgery of the Pancreas.—The surgery of drainage established in the lumbar region. manently; in all the rest the secretion diminished or the general debility of the patient. gradually, and ceased definitely with the healing of direct surgical treatment.

has lately removed successfully a fibroma of the cap- herent, or that the tumor is not omental but parietal.

of abscess of the liver and echinococcus cysts by abdominal section is based on the same principles five years. It reached from the ensiform cartilage to which embrace all the precautions which are neces- the symphysis pubis, distending the abdomen equally sary to obtain adhesion between the parietal and in all directions. Tympanitic resonance on percusvisceral peritoneum at the site of incision. The sion on both sides of the tumor. Palpation and recognized plan of treatment consists in making an exploratory puncture showed that the structure of the exploratory incision through the abdominal wall over tumor was firm and solid. An incision was made the the most prominent part of the swelling, to ascertain entire length of the linea alba. On opening the the presence or absence of adhesions. If the peri- abdomen the tumor came into view covered by peritoneal cavity is found obliterated, the operation is toneum, which was divided over the whole length finished at once by incising and draining the abscess of the tumor. The tumor was enucleated with the or cyst. If, on the other hand, no adhesions are kidney and the pedicle, which was composed of the found, the surface of the liver is exposed and the renal vessels, was tied, and after division dropped into wound packed with iodoform gauze and an antisepthe abdomen. The cavity was drained towards the tic dressing applied, which is allowed to remain for lumbar region and the divided peritoneum sutured. four to five days, until adhesions have formed, when Notwithstanding that a fecal fistula formed subsea second operation is made to evacuate the contents quently, the recovery of the patient was complete

centrally located, and a considerable portion of By a similar operation, Hicquet extirpated successhealthy liver tissue is interposed between it and the fully a retroperitoneal sarcoma, which was intimately external surface of the organ, it is advisable to make connected with the kidney with the latter organ in a the incision with Paquelin's cautery, so as to prevent girl six years of age. In this case the renal artery unnecessary or dangerous loss of blood. Echino and vein were tied separately. For the extirpation coccus cysts are frequently located upon the upper of malignant tumors of the kidney or its immediate surface of the liver, and on this account are inaccess-vicinity, laparo-nephrectomy affords a better chance ible to treatment by abdominal section. In such for a thorough removal of diseased tissue and for cases the practice of attacking them through an open-controlling hemorrhage, and on these accounts should ing in the chest, as has been successfully done by be preferred to the lumbar operation. Whenever Israel and Volkmann, recommends itself as the safest practicable, the integrity of the peritoneal cavity should be restored by suturing, and, if required,

the pancreas belongs to the future. The physiologi- XVIII. Laparo-nephrotomy. — This operation is cal function of this organ requires further investiga- indicated in all cases of hydro-nephrosis and pyotion for a more intelligible interpretation of symptoms nephrosis, where from the size of the swelling, or on when the seat of injury or disease. The only patho- account of adhesions, lumbar nephrectomy cannot logical conditions of the pancreas which have been be performed. It is also preferable to the lumbar made an object of surgical treatment are cysts. A operation where a positive diagnosis cannot be made, number of successful cases of this kind are on record between disease of the kidney and other fluctuating where a permanent cure was obtained by laparo-pan-tumors of the abdomen, and in some instances extircreatotomy, or the formation of an external pancreatic pation of a hydronephrotic or pyonephrotic kidney fistula. In only one case did the fistula remain per- is contraindicated by a disease of the opposite kidney

XIX. Tumors of Omentum Majus. - Tumors of the fistula. It is to be hoped that the symptomatology the large omentum give rise early to pain or a sensaof different lesions of the pancreas will be made a tion of discomfort, by causing traction upon the special object of careful study and investigation, so transverse colon by their weight. As a rule, tumors that in the future we may be able to recognize and of this structure are found in the umbilical region, classify the different diseases of this remote organ and have no connection with adjacent organs, hence during life, so that we may be able to resort to lathey are movable in all directions, except downward. parotomy in affections which may be amenable to The differential diagnosis between omental and intestinal tumors in the same region rests upon the com-XVII. Laparo-nephrectomy. - Although statistics plexus of symptoms caused by the latter group, from have shown that lumbar nephrectomy is a much safer their anatomical location interfering more or less with operation than laparo-nephrectomy, the latter has a the functions of the intestinal tract. In the examinaa legitimate sphere in cases of large tumors of the tion of an omental tumor, it must be remembered kidney, which cannot be removed through a lumbar that it is in immediate contact with the anterior incision. This operation also enables us to examine abdominal wall, consequently its presence will be the opposite kidney at the time of operation, an ad- indicated by an area of dulness on percussion corvantage which is considered of sufficient importance responding to the size of the tumor. If the area of by Thornton to give this operation the preference in dulness remains permanent and unchangable, it all cases where nephrectomy is intended. Bruntzel would be an indication that the tumor has become ad-

sule with the entire kidney weighing 37½ pounds, by Primary malignant disease of the omentum, if it

cus cysts are most favorably located for successful verse colon, and sigmoid flexure, while in other localtreatment by abdominal section and drainage.

gradually but surely encroaching upon the most with the formation of an artificial anus. That this remote tissues within the abdominal cavity, thus advice is not tenable in all cases becomes apparent, extending the benefit to be derived from direct as, for instance, if the tumor is located in the mesenlocal treatment to the most distant pathological con-tery of the upper portion of the intestinal canal, the

fully from the mesentery a glandular tumor which had nance of digestion, assimilation, and nutrition. undergone degenerative changes. The patient was a man, aged thirty-one years, in excellent health, who was taken suddenly ill without apparent cause. The dynes, winch were given freely. He was now in preventing a detect in the mesentery which might removed to the hospital, where on examination a subsequently become a source of internal strangularound tumor was found in the abdomen, which was thought to be a floating kidney. The patient suffered with obstinate constipation and pain for twenty-long one appears to have recovered. This case was five days, when the pain became paroxysmal and always aggravated when he attempted to take food. formed by Tillaux. The abdomen was opened suffi-operation, June, 1882. In all benign tumors of the feetus at term, situated on the right side of the mesen- mesenteric circulation. tery which fastened the intestine to the spinal colThere can be no question but that mesenteric deumn. The tumor was recognized as a cyst of the tachment is more likely to be followed by gangrene mesentery. This was punctured and subsequently of the bowel if enterectomy is performed than when incised and evacuated from it caseous matter, resemthe continuity of the intestinal tube is preserved. bling thick cream. Catgut ligatures were then thrown XXI. Retro-peritoneal Tumors.—The extirpation around the base of it, tied, and then the whole of the of a retro-peritoneal tumor by laparotomy must be tumor cut off above them. The pedicle was touched looked upon as one of the most serious and difficult with a strong solution of carbolic acid, the organs operations in surgery. Aside of the unusual diffireturned, and the wound closed. The pain ceased culties encountered in arriving at correct conclusions promptly and the recovery of the patient was com- as to the exact seat and nature of tumors in the replete. The histological examination of the tumor tro-peritoneal space, the technique for their removal showed it to be composed of a lymphatic gland con-remains to be improved by future research and extaining the products of caseous degeneration. This perimentation. case illustrates that it is comparatively safe to remove tumors of the mesentery by ligation or enucleation, while, on the other hand, extirpation of tumors requiring for their removal the excision of a corresponding for their removal their removal than the excision of a corresponding for their removal than the excision of a corresponding for their removal than the excision of a corresponding for their removal than the excision of a corresponding for their removal than the excision of a corresponding for the excision ponding portion of the mesentery is a vastly more been growing for two and a half years. The second serious and difficult operation.

removed with the mesentery and a corresponding found in front and toward the left of the spine, which of the bowel were brought together with sutures, ter the operation. The patient survived the operation only for twenty-four hours Wölffler suggests that in the future en-terectomy in connection with extirpation of tumors. Homans very properly warns against such extensive

could be recognized early, would offer most favorable of the mesentery should be followed by enterorrhaphy conditions for successful radical extirpation by only in cases where the site of operation involves the abdominal section. Cystic tumors and echinococ- movable portion of the bowel, as the cæcnm, transities no attempt should be made to unite the resected XX. Tumors of Mesentery.--Aggressive surgery is bowel, but the efforts of the surgeon should cease physiological exclusion of such a large intestinal sur-A few years ago, M. Tillaux extirpated success- face would be incompatible with a proper mainte-

most prominent symptom was a violent pain in the tery. If it can be accomplished without producing abdomen, which compelled him to remain immovable mechanical destruction of the bowel by flexion it for about fifteen minutes. The pain recurred after a would be advantageous to approximate the vascular short interval with unmodified intensity. The fol- supply by suturing the mesenteric wound. This lowing day the suffering continued in spite of ano-course also suggests itself as an important measure dynes, which were given freely. He was now in preventing a defect in the mesentery which might He only obtained relief when he sat on his bed bent amination showed that the tumor was a spindle-celled double, with his head resting on his knees. At this sarcoma. In a recent communication in the London time M. Millard diagnosticated chronic invagination Lancet Mr. Wells informs us that the patient has reof the intestines. About thirty-eight days from the mained free from a recurrence of the disease and beginning of the illness, abdominal section was per-remains otherwise in good health since the date of ciently to permit the introduction of the hand, when he mesentery enucleation should be preferred to excision found a round tumor about the size of the head of a so as to preserve intact as much as possible of the

patient was a woman 60 years of age, suffering from Wölffler reports a case of this kind. In his case a a lipoma. The tumor was located in both cases in fibroma of the mesentery weighing 11/2 pounds was the right side. In the first case another tumor was portion of the intestine 113 ctm. in length. The ends could not be removed. Both patients died soon af-

made without opening the peritoneal cavity. In apafter dividing the overlying peritoneum, the enucleaof blunt instruments, and with special care to preenterorrhaphy.

The foregoing fragmentary and imperfect sketch into it. of the Present Status of Abdominal Surgery will, I hope, at least serve the purpose of impressing upon you the importance and magnitude of this, the most recent, department of surgery. I have attempted to allude to the defects as well as the advances, the failures as well as the triumphs. The results already obtained by the surgical treatment of injuries and diseases of the abdominal organs, are indeed gratifying, and bear abundant evidence of the good and faithful work which has been accomplished. The greatest achievements of abdominal surgery, however, necessarily belong to the future. This new territory, only so recently acquired by the surgeon, has been only partially explored. New operations will be devised and old ones improved. Diagnosis will be made more certain by a careful study of symptoms, a more thorough knowledge of physiology and pathology of the abdominal Experimental research will clear up many obscure points in the causation of disease, which will lead to new and improved methods of treatment, With all these prospects before us, let us not remain idle. Abdominal surgery is of American birth. us cherish our own offspring. The world holds us responsible for its healthy growth and development. McDowell, Gross, Sims, the distinguished fathers of Abdominal Surgery, have left us in charge of an important and sacred trust. Let us labor in this department honestly, unceasingly, zealously, as faithful guardians of the promising infant until it shall have attained vigorous, perfect manhood, a source of pride to its illustrious parents, a perpetual fountain of blessing to suffering humanity, and a priceless honor to American Surgery.

A RAPID EVACUATOR FOR LITHOLAPAXY ACTING BY A CONTINUOUS CURRENT; ALSO A NEW METHOD OF ATTACHING FILIFORM GUIDES TO STRICTURE INSTRUMENTS.1

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The operation of litholapaxy, or lithotrity at one sitting, derived much of its marvelous success from the improved rubber bulbs and metallic tubes devised

1 Read before the Chicago Medical Society, May 17, 1886.

deprivation of vascular supply to the bowel in this by Bigelow for the evacuation of the fragments of particular locality. He advises, under such circum-stone. Yet Bigelow's evacuators, and also those of stances, either enterectomy and enterorrhaphy, or Sir Henry Thompson, have this serious defect: the the formation of a preternatural anus. It would rubber bulb makes suction only for an instant. When seem that in some of these cases, where the tumor is it reaches the limit of its expansion, it suddenly stops of moderate size, the operation would be easier, and the outward current from the bladder, and arrests in the results better, if a lateral abdominal incision were transitu a row of fragments of stone lying along the whole length of the tube, which at the next compresproaching the tumor through the peritoneal cavity sion of the bulb are all thrown back into the bladder. Thus a large part of the fragments are pumped out tion of the tumor should be accomplished by the use and in many scores of times before they finally escape, and the evacuating stage of the operation is serve the integrity of the mesenteric vessels so as to tediously prolonged, often lasting thirty or forty minavoid, if possible, the necessity for enterectomy and utes. At the same time the inflamed bladder is irritated by the repeated forced expansions, and by the pelting of sharp fragments continually shot back

Obviously what is needed is a continuous current moving always in the same direction. This idea has occurred to many persons, I presume, for since commencing investigations in this direction I have received letters suggesting analogous thoughts and plans from different physicians, especially from Dr. W. H. Graves, of Lexington, Ill., and Dr. M. B. Cochran, of Davenport, Iowa. After calculating the mathematical forms and proportions best adapted to the end, and corroborating the conclusions by experiment, I have succeeded in having the following apparatus constructed by E. H. Sargent & Co., which evacuates the fragments with a rapidity much beyond my expectations. It consists of the following parts:

First, a double-chambered evacuating tube represented in Fig. 1, which may be either straight or



FIGURE 1.

curved. The straight ones are the best. They must be very carefully constructed as follows: The straight part consists of a cylindrical tube of very thin metal with an outside diameter of 8½ millimetres, and terminating in a rounded tip having a fenestrum like Bigelow's. This is the evacuating part, and it is made cylindrical with the largest admissible calibre, so as to permit the largest possible fragments to escape through it. Its outer end is bent downward as in the cut, and terminates in a piece of rubber tube o centimetres long and 1 centimetre inside diameter, for a purpose presently to be mentioned.

Along the under side of the straight portion of this outflow tube is soldered a thin concave semi-cylinder making an inflow-chamber which, so to speak, is wrapped half around the outflow tube, giving the whole an oval cross section with an outside circumference of about 311/2 millimetres (see Fig. 2). The diameter, A B, of the cylindrical part is 81/2 millimetres, and the depth, B C, of the inflow chamber is 2 millimetres. The inflow channel terminates in forty perforations, each 1 millimetre in diameter. The



of solder or other obstructing material in the narrow in which I tried it, the fragments made by crushing a inflow chamber.

To the outer end of the inflow tube is attached a rubber tube with an inside diameter not less than 1 centimetre, and a length of about 3 yards. The further end of this rubber tube attaches to a metallic strainer large enough to admit without resistance all seconds more of the current sufficed to remove the



the water which will flow through the rubber tube. A disc of ordinary perforated sheet metal 3 inches in operator compresses the end of the short rubber diameter, with orifices less than a millimetre, will outflow pipe between his thumb and finger, and then transmit the requisite quantity of wash.

a strength of 11/2 per cent, is hung over the foot of a short but strong pulsation back into the bladder and the operating table at such a height that the surface dislodges instantly the obstructing fragments. of the water will be about forty two inches higher



minution is thought to be sufficiently accomplished, the evacuator is inserted into the bladder with the fenestrum towards the patient's head, and held at a steep slope so that the tip presses the bottom of the bladder gently down towards the rectum, making a funnel-shaped depression into which the fragments tend to fall. Now turning the stopcock, the fluid is admitted, and rushing through the inflow division, it enters the bladder outer end of the inflow tube projects in a straight rapidly around into the fenestrum of the outflow tube, line beyond the curve of the outflow, and terminates thence outward into a basin placed between the pain a cylinder ro millimetres inside diameter and hav-tient's thighs. The current being continuous and ing a stopcock of the same calibre. Great pains always in one direction the evacuation is accommust be taken by the manufacturer to have no drops plished with remarkable rapidity. In a recent case hard oxalate of lime calculus over one inch in diameter were almost completely swept out in ten seconds, when perhaps twenty-five minutes of churning to and fro with Bigelow's evacuator would scarcely have accomplished the same result. Some sixty last minute particles remaining. Having observed the slowness of Bigelow's apparatus by using it in some thirty cases, I was deeply impressed by the shortening of the operation effected by means of the continuous current.

There is one obstacle which affects my own and Bigelow's evacuators alike. If the crushing of the calculus is not pretty thorough, several large pieces may roll against the fenestrum at once, and lodging against each other in an arched form, obstruct the outflow, or a single piece too large to pass may do the same thing. I meet this difficulty in a very simple way. The last four inches of the outflow pipe is of rubber. When the sudden scantiness of the stream shows that the fenestrum is blocked, the with the thumb and finger of the opposite hand sud-A bucket filled with warm carbolized water having denly compresses the tube just above. This forces

> The wash should always be of warm carbolized than the patient's pubis. The water, to which, perhaps, a little cocaine might adhydraulic pressure generated by vantageously be added. The carbolized water blunts this height will deliver through the irritability of the nerves of the bladder and thus the tube a current swift enough prevents shock, while it also leaves the cavity in a to sweep the fragments out of the thoroughly antiseptic condition and tends powerfully

> In addition to the apparatus just shown I beg leave tube from being compressed to call attention to a new method of attaching filiform where it rests upon the rim of guides to stricture instruments. The methods of the bucket. The method of use connecting them heretofore have been two: First, is as follows: The long syphon by a small female screw on the butt of the guide rubber tube is connected to the which fits a male screw on the tip of the instrument. strainer, and the latter dropped As the whalebone guides have not been fitted in this into the bucket of warm carbol fashion, the operator could only connect to one or ized water. The tube is filled and two of the woven variety usually sold him with his connected with the evacuator, instrument, and could use no others. The second method of connection has been by a small orifice or The patient is now an:esthet- tunnel through a knob at the tip of the instrument, ized, and the stone crushed in which slides over the whalebone guide and thus atthe usual way. When the com- tempts to follow it through the stricture. The trouble

with the tunnelled instruments is that in a is found to pass the stricture.

plan which works well. A is a filiform screw C. The split extends a little distance into the staff of the instrument D, so as to give the two parts the elasticity of a spring, and the jaws are roughened so as to hold the

bongie with a firm grip.

In using the instrument, the surgeon tries his various filiforms until he finds one which passes the stricture. Leaving it in situ, he slips the female screw or nut B upon the bougie, next opens the split screw and closes it upon the end of the bongie, and secures it by screwing on the nut B. His guide is FIGURE 5. Enlarged now firmly held, and will generally lead the neutralized at once with salt-solution. 2 diam. instrument successfully through the stricture.

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# MEDICAL PROGRESS.

THE RECTUM IN THE YOUNG .- At the meeting of the Obstetrical Society of New York on, February 16, Dr. Jacobi read a paper on this subject, of which the following is a brief synopsis: The hollow of the sacrum being less curved in the child than in the adult, the rectum is shorter, straighter, and more uniform in shape, hence liquid or semisolid feces, after passing the sigmoid flexure in the infant, are rapidly evacuated. In the embryo the intestine is formed in sections, the excess occurring in the descending colon and sigmoid flexure; the latter may have a length of even thirty cm., whereas in the adult it seldom exceeds twenty cm. Because of the small size of the infantile pelvis the colon is thrown into folds, so that instead of one, there may be several flexures. Clinically, the presence of the redundent intestine is of great interest, from the fact that it may give rise to difficulty in determining the true position of the sigmoid flexure, and may prevent the passage of the intestinal contents, leading to the erroneous diagnosis of complete obstruction. The inflammatory conditions of the rectum, catarrhal, diphtheritic, etc., are of the same character as those in the adult. A simple proctitis may result from the irritation caused by a foreign body, or may be due to syphilis or tuberculosis. Periproctitis occurs rarely after typhoid and pyemia. There is no instance on record of cancer of the rectum in an infant. Complete fistula are rare in children and are difficult to cure; the incomplete variety are much more common. The canal from without inwards.

Dysentery.—This may be sporadic, endemic, or epitight stricture the whalebone clings so close-demic. The catarrhal and diphtheritic variety are ly to the steel that frequently it will not slide. interchangeable. As a result of the inflammatory It is greatly to be desired that a stricture process, the mucous membrane often becomes necutter or divulsor should be capable of crotic. Destruction of the glands, and subsequent being attached to any guide whatever which cicatrization of the mucosa, and contraction of the bowel sometimes occurs. The treatment is mostly The cut shows on an enlarged scale a local. Pain in the hypogastrium may be relieved by cold or warm applications. Opium is of great value, bougie, either woven or of whalebone. B and is tolerated in full doses; it should be given by is a nut or female screw made to fit the split the mouth rather than in enemata. The best astringents are tannin and gallic acid, lead, nitrate of silver, and iron-all to be given in small doses, but at frequent intervals. Bismuth is a valuable remedy, which, in addition to its antifermentative action, serves to protect the mucous membrane. In case of ulceration, local enemata should be used; injections of tepid salt solutions, flax-seed tea, etc., should first be given, in order to empty out the bowel, after which astringent solutions are to be introduced. A one per cent. solution of alum or tannin is generally useful. Weak solutions of nitrate of silver (one or two per cent.) may be used in subacute cases, but should be

Rectal Polypi.—These vary in size from a pea to a hazel-nut, or larger. They may be single or multiple, sessile or pedunculated, their usual site being just above the internal sphincter. They were first described by Stoltz in 1831; Bokay found them only in one out of 2,600 patients, but Dr. Jacobi usually . meets with three or four cases annually, and has treated about 100 cases, the ages of the patients ranging mostly from two to five years. Among the symptoms noted were irregular defecation (mucus or blood sometimes being discharged), with accompanying tenesmus, especially when the polypus was near the internal sphincter or between the two sphincters. A red mass might protrude from the anus, and repeated hæmorrhages were not uncommon, the last symptom being almost pathognomonic of polypus. The growth is readily felt on introducing the index finger into the rectum, which can usually be accomplished without difficulty. The treatment is simple, since the pedicle offers but a slight resistance, and may be tied and cut, or separated by torsion or evulsion, the loss of blood being insignificant. Sessile polypi often give rise to no symptoms, and may be caused to shrink up and disappear by using astringent injections.

Prolapse of the Anus or Rectum.—These are only different degrees of the same pathological condition. Weakness of the sphincter may be either congenital or acquired; the latter may result from overstraining as the result of an inflammatory process in the bladder or bowel, fistulæ, abscesses, polypi, etc. mildest form of prolapsus consists in a simple eversion of the anus, between which and the worst variety, in which three or four inches of the bowel protrude and are incarcerated, there are many intermediate forms. The indications always are to reduce the prolapsed part, and to retain it in the proper position. For the actual cautery is the only reliable agent to employ in latter purpose a T-bandage, or tamponing, with fixa-treating them; it should be applied to the entire tion of the nates, has been recommended; plugs of hard rubber or lead are used by others. The cause

of the prolapsus, whatever it is, ought to be elimi-patient after the first year of life; there will then be frenated. Polypi or vesical calculi should be removed, quent discharges of blood, as well as excruciating constipation and chronic diarrhea should be cured. pain in the region of the anus. The proper treat-The child ought not to be allowed to defecate sitting ment of fissure consists in forcible and instantaneous

sisted by a large enema.

with salt-solutions as otherwise it may produce sore- American Journal of Obstetrics, April, 1886. ness of the rectum, and thus lead to tenesmus, which will increase the existing prolapsus. Excessive hyperrectum.

of a calculus, but to anal fissure.

sleep is disturbed, and they scream suddenly without deal of good. any apparent cause. Their stools are frequent, but In a well-known group of symptoms from which of the average daily amount and appearance. A women frequently suffer, massage is essentially useful. polypus and fissure may rarely co-exist in the same I recently saw a lady, aged 45, or thereabouts, a pro-

upon a low stool, and each passage should be as-dilatation of the sphincter, with or without anæsthesia, by the introduction of the two index fingers. The The swollen mucous membrane must be cleansed sphincter should be stretched until its fibres are disby frequent injections, and astringents be applied to tinctly felt to give way. Boyer advises deep incisions it, a one per cent. solution of nitrate of silver being through the sphincter, but these may be followed by recommended: the latter must be neutralized at once hæmorrhage, ulceration, and septic absorption.-

MASSAGE AS A THERAPEUTIC AGENT.—In a note emia may be relieved by applications of ice and a on this subject Dr. William Murrell says: It is four per cent, solution of cocaine. In exaggerated no easy matter to say in what class of diseases mascases, the solid stick of nitrate of silver might be ap- sage proves most useful. Unfortunately, its employplied, or, better, still, the actual cantery, which may ment has been advocated in many cases, for which it be applied longitudinally, transversely, or at several is essentially unsuited. Accurate diagnosis is of the different points. If the sphincter is weak, an induced utmost importance, and, the sphere of usefulness current, passed through the perineum, is beneficial, of this remedy will, with increased experience, besulphate of strychnine being administered hypoder- come more accurately defined. My best results have mically in daily doses varying from  $\frac{1}{60}$  to  $\frac{1}{24}$  gr. In-been in infantile paralysis; and it was in consequence stead of the latter, an ointment composed of one part of the success achieved in certain obstinate cases of of extract of nux vomica and from twelve to twenty this disease, that my attention, as has been elsewhere parts of fat or vaseline, may be introduced into the stated, was directed to the subject. Progress is often slow, but the ultimate results are most satisfactory. Fissure of the Anus.—This is generally regarded The nutrition of the parts is maintained until new as a rare affection in infants, but it is more frequent cells in the spinal cord take on the functions of those than is usually supposed. Kjelberg is the only writer which have undergone degeneration, or have been who claimed that it is frequent during the first year of destroyed. Massage is, undoubtedly, of much value life. It generally appears as a narrow, reddish or in many cases of obstinate neuralgia, and succeeds grayish slit, observed on separating the margins of admirably in some forms of muscular pain, such for the anus, seldom extending beyond the sphincter, example, as those described by the late Dr. Inman while the surrounding parts present a normal appear- under the term "myalgia." There is a general conance. The fissure is extremely sensitive to the touch, census of opinion that it is well adapted for the treatand an examination frequently causes a contraction ment of chronic joint-affections; and most of those of the sphincter that is partly voluntary and partly I saw treated by von Mosengeil were such as would, spasmodic. A milder form of fissure may result from in this country, be considered incurable, or would the rhagades of congenital syphilis, or from local drift into the hands of "bone-setters." There are skin erruptions. The more severe varieties are due some diseases of internal organs in which it is, unto constipation or the passage of foreign bodies; the doubtedly useful. Not long ago, a gentleman, aged former condition may result from a congenital 68, came to me complaining of shortness of breath, contraction of the sphincter, leading to an ac-cumulation of feces in the ampulla, just above the had been in business, and had led a most active and point of constriction. As a rule, the fissure is situ- energetic life. Three or four years ago he retired, ated at the posterior edge of the anus in the median and, from that time, experienced a gradual falling off line. The pain during defecation is intense and may in health. His appetite was poor, his bowels were last for several hours afterwards, so that the little pa- obstinately confined, and he was nervous and anxious tient's face becomes haggard and distorted; abdom- about himself. He was found to have a loud apex inal pain, tympanites, and other intestinal troubles systolic murmur, and the heart's action was weak and may co-exist with cerebral irritation and sleeplessness irregular. I suggested massage, which was carried -all of which symptoms may often disappear after a out systematically four days a week, for a period of single dilatation of the sphincter. Vesical spasm and six weeks. He improved from the very first, and, dysuria are not unfrequently due, not to the presence before the conclusion of the course, was better than he had been for many months. His appetite returned; Incontinence may occur instead of dysuria, not his hands and feet were warmer; the bowels became the paralytic form, but that in which small quantities regular; he slept well at night; and his spirits im-of urine are passed at a time with tenesmus. In proved in a most satisfactory manner. In other many children the symptoms may be more general; cases of obstinate constipation, especially in women, they are restless and fretful, lose their appetite, their I have known massage of the abdomen do a great

fessional singer, who was laboring under the impres- sults in many complaints other than those I have sion that she was going mad. She was so nervous roughly indicated.—British Medical Journal, May that she was quite unable to accept an engagement, 15, 1886. although she had been constantly before the public, and had hardly missed a night for twenty years. She told me she felt she was not to be trusted, and that, if left alone she would do herself or her children an injury. She was afraid to go near an open window, so great was the temptation to throw herself out; and she even begged that the knives might be removed from the table at dinner. These symptoms were greatly intensified after each monthly period, and she insisted that she was suffering from cancer, or some organic disease of the stomach or womb. She was restless at night, and would often get up in the early morning, and walk for hours, until thoroughly exhausted. She was given full doses of the bromides—a drachm, or more, four times a day but with only temporary benefit. Massage was then tried; and it seemed, to use her own expression, to soothe her, and calm her, and make her forget her troubles. The case was a prolonged one, but now, at the expiration of three months, she is much better, and will soon be able to resume her professional duties. In several other cases of restlessness and inability to sleep, the same method of treatment has proved efficacious.

Dr. Graham, of New York, speaks highly of massage in the treatment of neurasthenia. He uses it for those "who, in spite of rest, change and medication, have become chronic neurasthenics, the result of business reverses, overwork, worry, loss of relatives, disappointed hopes, or as a sequel of some affection that has existed in some part of the system, but which has recovered or has become of secondary importance." These symptoms may be somewhat ill-defined; but I have certainly found massage of the greatest use in what, for want of a better name, has been called "spinal nervous weakness," or neuras-

thenia spinalis.' In the treatment of corpulence associated with constipation, massage is of much value. months ago I saw a lady, aged 38, who, as the result of much good living and little exercise, had become inordinately stout. She was very short of breath, and was disinclined for exertion of any kind. She had been fond of literary pursuits, but even those had lost their charm, and were irksome to her. She was extremely irritable, and a source of trouble and anxiety to her friends and relatives. Massage was prescribed, and in two months she lost a stone and a half in weight, and improved notably in other respects.

For many forms of menstrual disturbance, massage may be safely prescribed. I recently saw a young lady, aged 19, who suffered intensely at each monthly period, the pain being so severe, that hypodermic injestions of morphine had to be resorted to. Massage that time there was no return of the trouble. ble therapeutic agent, and is likely to yield good re- Lancet, May 15, 1886.

Effect of Bitters on Digestion .- Dr. Chelt-SOFF, chief of Professor Botkin's clinic, thinks that extracts of the so-called "pure bitters," which are usually prescribed with the view of stimulating the secretion of gastric juice and of aiding digestion, so far from having any beneficial effect of that kind, are absolutely injurious, inasmuch as they retard the digestive functions. He has made a series of experiments with extracts of aurantium, gentian, trifolium, absinthium, calumba, cascarilla, and quassia on (1) gastric digestion, and the secretion of gastric juice; (2) pancreatic digestion and the secretion of pancreatic juice; (3) the secretion of bile; (4) fermentation; and (5) nitrogenous metamorphosis. The conclusions at which he arrived were that bitter extracts, even in small doses, interfere with artificial gastric digestion, and also with the gastric digestion of animals, but not to so great an extent. Large doses of bitter extracts diminish the secretion of gastric juice, though small doses effect a slight and transitory increase of it, the digestive power of the fluid being, however, in all cases diminished. Bitter extracts have no effect on the secretion of pancreatic fluid, but they nevertheless retard hypogastric digestion. The action of bitter extracts on the secretion of bile is various; extract of absinthium, extract of trifolium, and large doses of extract of cetrarin, slightly increases it, usually at least, but not invariably; while extract of quassia, extract of calumba, and small doses of extract of cetrarin, have no effect at all. Bitter extracts have no anti-fermentative effect, and do not hinder suppuration. Lastly, assimilation of nitrogenous substance is diminished by the use of these extracts.—Lancet, May 15, 1886.

A Case of Compulsory and Exclusive Back-WARD MOVEMENT .- In La Rivista Clinica of June, 1885, Dr. MAZOTTI reports the following rare case: An alcoholist, 66 years of age, was admitted into the hospital of Bologna for the treatment of scurvy. After his recovery from this affection, it was found that in spite of the greatest efforts, he could only walk backward, and that after that he had to turn around his own axis. These movements, of course, constantly imperilled his life. He soon succumbed to pneumonia, and the examination of the brain showed an atheromatous condition of the vessels at the base. We wonder that the inspection of the spinal cord was omitted, which might have given some clue for these peculiar symptoms.—Therap. Gaz., May 15, 1886.

Photographing the Uterine Cavity.—A Swiss physician describes a plan of introducing wadding tampons and laminaria tents into the uterus, by which of the abdomen and pelvis was prescribed, and from he has succeeded in dilating the organ to such an ex-Cazeaux tent as to be able, by means of reflectors, to get a has reported several similar cases, in detail. In the complete view of the whole cavity in cases of carconvalescence from acute illnesses, this mode of treat-cinoma, fibrous polypi, fibromata, and endometritis. ment is a great help and comfort to the patient. Not being content with ocular inspection, he has also There can be no doubt that massage is a very valua- contrived to obtain photographs of the cavity.—

THE

# PUBLISHED WEEKLY.

general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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CHICAGO, ILLINOIS.

#### SATURDAY, JUNE 5, 1886.

#### A FOURTH YEAR OF MEDICAL STUDY-OF WHAT SHOULD IT CONSIST?

advise a fourth year of medical study, but by none or rather preparatory, education. is it required. The catalogues of most of these the four year course. The studies taught in the three medical school. The four year course that we would tion. The studies of the fourth year consist of sup- and the three courses as now graded in our best colplementary clinical work and in advanced instruction leges. Graduates of literary colleges and scientific in some of the special branches of medicine.

students wish. They know that a year or eighteen the first year. months spent in a good hospital as house physician With a good and a broad preparation the details course would meet the wishes of several classes of changes in connection with growth and life if, in a

studying medicine, who have not the means to give Journal of the American Medical Association, them a college education and who yet desire to prepare them a little better for the study of medicine, what and where can they study for a year or two? THE EDITOR OF THIS JOURNAL would be glad to receive any items of Many of our literary colleges and scientific schools have longer courses that are well adapted to such cases, but not short courses purposely planned for these students. There is a still larger class of students who have a fair English common school education, who know nothing of scientific methods of study and who nearly waste the first year of their medical course in learning how to study. As these form a very considerable proportion of the students at medical colleges, and not unfrequently some of the best, it would seem right that they should receive or be provided there with a year's course which should be preparatory to their further study. The best of these certainly could readily be induced to take a year of preparation for medicine if a proper course was offered to them, and they would be much benefited thereby. What is now most needed by a A very few of the medical colleges of this country majority of the medical students is some preliminary,

At least a good English education should be deschools do not show that any students are enrolled in manded as preliminary to taking up any course in a first years are just those that are required for gradua- suggest would consist of a preparatory year of study schools might well be admitted to the second year in A fourth year of this character is not what most this scheme without examination on the branches of

and surgeon will enable them to see more and learn of the study of medicine will be acquired most readmore than they could in the fourth year at college. ily, and they will possess for the student much more The best students will therefore plan to graduate in interest. Frequently students will applaud a lecture three years and take their fourth year of clinical and devoted to the circulation of blood through the heart practical instruction in the hospitals. Poor students as it is illustrated by various experiments or drawwill not spend any more time in study than is re- ings, but when the same lecturer describes the chemquired of them. These are without doubt the reasons ical changes that occur in the blood while it passes why fourth year courses have not yet become at all through the lungs or through a muscle or other organ popular. Three years is too short a time for a proper of the body, his words are devoid of interest, and study of medicine unless the student comes to col- often to the student of meaning. Why is this? In lege well disciplined by previous study, and best of the first place, the student does not appreciate the all by a certain amount of scientific study. We importance of the subject; in the second place, he would suggest, therefore, that in this country to-day is at the time studying elementary chemistry and is there is more need of a fourth year introduced at the not prepared to understand the complex changes beginning of the medical course than at the end of that the lecturer describes. How much better could the present three years of graded study. Such a a student appreciate the existence of these chemical course on general biology, he had studied practically Frequently the question is asked by parents who himself the comparatively simple changes effected by have sons 18 or 19 years old desirous of ultimately the growth of the yeast plant in the air and the

medium about it. This will illustrate in a measure windows within the vicinity. The clouds of dust the necessity for some preliminary knowledge of sci- which frequently pour forth from the door of a busience. A knowledge of chemistry, physics and gen- ness house might sometimes cause a myopic person eral biology would throw a flood of light and interest to raise an alarm of fire; and the smoke from a fire on physiology and pathology. Physics and compar- would be much more pleasant in the eyes and nosative anatomy would bear a similar relationship to trils than the heterogeneous dust which salutes and human anatomy, both normal and pathological. Bot- envelops one twenty or thirty times in a walk of any would be especially valuable to the student of a mile. materia medica.

during this proposed year would be chemistry, phys-outside the city limits enough water could be found ics, general biology, elements of comparative anat- to sprinkle the sidewalks before they are swept. omy, and botany. In connection with chemistry Dust which is chemically clean is unpleasant when there should be an abundance of practical work in deposited on the buccal, conjunctival or Schneiderian the laboratory, and the use of the microscope should mucous membrane; but the typhoon of the desert be taught in connection with the biological and an- has the odors of Araby compared with the compound atomical studies.

would be threefold. First, it would give the student cleansed (?) in this manner is all the more surprising a scientific foundation upon which to build a medical when one notes the manner of cleansing the windows: education. Second, it would make easier and more A person takes a cup of water, and repairing to the entertaining some of the most technical parts of edge of the sidewalk, or as near to it as possible, medical study. Third, it would teach the student projects the water in the direction of the window, a scientific methods of thought and reasoning that pedestrian usually receiving a share of it. After the would enable him better to appreciate science as ap- windows are washed the dry process is applied to the plied to medicine. Such a course would not be an sidewalk, and the window is again ready for the appropriation of studies by a medical school that washing of the next day. rightfully should be taught elsewhere, for during many rightfully belong in it.

#### THE DRY TREATMENT OF SIDEWALKS.

and until the snow falls in the autumn, is usually sur- is now free from cholera, and even if it were not there prised to see the regularity with which the streets are could be no good reason why the streets should be sprinkled by the watering carts, and the equal regu- sprinkled regularly, and the sidewalks kept dry with larity with which the sidewalks are never moistened equal regularity. except from the clouds. The visitor sees it with surprise, and the residents see it and grumble. It is not at all unusual to see men, going down town to business in the morning, crossing the street to avoid a cloud of dust which is being raised by an industri- DR. W. GARDNER before a recent meeting of the ous sweeper in front of a dwelling or store, and then South Australian Branch of the British Medical Asrecrossing to escape suffocation from the dust raised sociation. He classifies the treatment under the three by the emptying of a barrel of ashes into an ash-bin heads of medicinal, expectant and surgical; but one (which generally has a prominent place on the side- may very properly class the medicinal treatment as walk). This cloud-raising process is usually gone expectant in the larger of cases. The medicinal through with three or four times a day, as the breezes treatment can consist only in the administration of with which Chicago is blessed will on no account al-drugs which are supposed to cause the death of the low all the dust and sweeping to be deposited in the parasite, and which must at the same time be innocgutter. The dust raised by one sweeper is carried uous to the patient; and before any conclusions can

A certain amount of dust in a large city is unavoid-The subjects that might appropriately be studied able; but it does seem that with a large lake just which is sifted into one's nostrils from a butcher's The objects that such a course would accomplish shop or a fish market. That the sidewalks are

Will the efficient Department of Health of Chiyears the medical curriculum in the best schools of cago look into this matter and see if it cannot be the old world has included these branches, and they remedied? Dust in large cities, and in large quantities, is not only unpleasant but unwholesome. It has been claimed that in times of cholera water should be withheld from the streets, as the cholera microbe The visitor in Chicago at this season of the year, will more quickly perish when kept dry. But Chicago

#### THE TREATMENT OF HYDATID DISEASE IN MAN.

Such is the title of an interesting paper read by to the sidewalk of the next house, and into the open be drawn, says Dr. Gardner, we must prove two things: that a hydatid cyst is present in connection body should, immediately upon the establishment of with some organ, which is not only very difficult, but the diagnosis by the aspirator or hypodermic needle, absolutely impossible without tapping or aspiration be incised and the cyst removed; and that hydatids (which may then be reasonably said to have assisted, of the lung or abdomen should be first tapped to esif not actually produced the cure). 2. If a cure is tablish the diagnosis, and, if possible, to effect a cure. supposed to have been effected by the use of drugs A radical operation should be made on the appearit is necessary to show the existence of a collapsed ance of suppuration or of opacity of the fluid. He and retrograded cyst by post-mortem examination. thinks that in the future we will best secure the safety And even should these things be done it would be of the patient by resorting to an early radical entirely proper for a sceptical person to say that the operation. life history of the hydatid renders it very probable that the death of the vesicle at a more or less remote time is but a natural ending. At any rate it is found paper entitled "A Preliminary Account in Regard that among all the reported cases there is not one which may with any certainty be said to have been cured by purely medicinal treatment.

We have said that the medicinal treatment may be properly classed as expectant; though the use of the term expectant in speaking of the treatment of hydatid cysts is rather foreign to the usual acceptation of the term, and is only applicable to those cases of cysts of the lungs which have ruptured spontaneously into a bronchus, and not to any unruptured cysts of the lung. Of Davaine's 40 cases there were 15 cures and 25 deaths; and of the 15 cures 12 were from the expectant treatment. Hearn has recorded 144 cases, with 62 cures and 82 deaths; 45 of the cures being from the expectant treatment, though it may be suspected that Davaine's cases are included in his table. Many of Davaine's cases occurred during the early part of this century, when the diagnosis was probably less exact than to-day. Dr. Gardner has records of 24 cases of hydatids of the lung with spontaneous rupture, with 22 recoveries so far as he has been able to keep track of the cases. Bird has met with 150 cases of hydatid of the lung, but his monograph gives no statistical details. But taking all the statistics at command, it seems that of 212 cases of spontaneous rupture 101 have recovered and 111 have died-less than 50 per cent. of recoveries. Bruen, in his article on "Pulmonary Hydatids" in Pepper's "System of Medicine," says that 30 or 40 per cent. of cases terminate in recovery if the cysts spontaneously burst, death being caused in others by suppuration and exhaustion. The very rational conclusion to which Dr. Gardner comes is that the expectant method will only be applied to ruptured cysts which are causing little inconvenience, and are in process of cure, and cysts so situated as not to be amenable to surgical treatment.

The surgical methods of dealing with hydatid cysts have been given so often they need not be detailed in this place. Dr. Gardner's general conclusions are

Dr. Frank Donaldson, Jr., is the author of the to Circulatory and Respiratory Changes observed in Animals placed in the Pneumatic Cabinet," an abstract of which was given in THE JOURNAL of May 22, p. 579, and credited to Dr. Frank Donaldson.

## SOCIETY PROCEEDINGS.

CHICAGO MEDICAL SOCIETY.

Stated Meeting, May 17, 1886.

THE PRESIDENT, E. J. DOERING, M.D., IN THE CHAIR.

Dr. EDMUND ANDREWS exhibited a NEW EVACUATOR FOR LITHOLAPAXY; AND A FILIFORM GUIDE ATTACHMENT.

(See page 626.)

DR. W. T. BELFIELD opened the discussion by saying that the disadvantages of the ordinary evacuating apparatus mentioned by Dr. Andrews were well recognized, and that the apparatus exhibited seemed adapted to remove them. It possessed, however, one element of danger, namely, the possibility of undue distension of the bladder through sudden clogging of the exit tube. In cases of concentric hypertrophy, where the bladder can contain only three or four ounces, the continuation of the powerful inflow might, if the exit were obstructed, cause serious damage. Of course if the clogging is immediately discovered, a prompt use of the stopcock would prevent injury.

As to the urethral instrument, he would wish to be sure that the filiform could not be detached beyond the stricture. This danger attaches, of course, to all methods of securing the filiform, but would seem to be especially great in the arrangement exhibited. The loss of a filiform in a tight stricture is an extremely uncomfortable accident; in several cases surgeons have even made external urethrotomy to recover it.

To Dr. Andrews's remark that in case of such an accident urethrotomy is readily avoided by inserting a small lithotrite into the bladder and seizing the filiform, Dr. Belfield replied that when there is present a stricture so tight as to require patient work to perthat all hydatid cysts of the external surface of the suade a filiform to pass, a small lithotrite could hardly

mer. If the urethra is everywhere large enough to tication of hundreds of cases of disease. admit a small lithotrite, there could be no danger of losing a filiform because there would be no occasion have to overcome in making a diagnosis by reason to use one.

Dr. Fenn wished to know, if the momentum could be increased by increasing the specific gravity of the fluid, what would be the effect of a greater elevation of the reservoir?

Dr. Andrews said that the attachment of a flexible guide to the urethrotome is always a source of care lest it become detached. This was less liable to occur with his instrument than in the old way. In case it should happen the lost guide could be seized and drawn out with a lithotrite.

The question of the pressure of the fluids and the strength of the bladder is one of great interest. But little is known about it. No more force should be used on a distended bladder, certainly, than a normal one could readily endure. We get the measure of this to some extent in the pressure of the expulsive power of the organ, which is a safe limit to keep inside of in the absence of other data. The pressure which Bigelow's evacuator ordinarily gives may form another guide, as this is known to be harmless. reservoir must not be placed so high as to cause dangerous distension, should the outflow tube become obstructed. Ir practice forty inches had given all the current needed, and this was doubtless a safe pressure to use in any and all cases.

# Dr. James I. Tucker read a paper on

#### UNDIAGNOSABLE MALADIES.

These cases generally are not recorded because there is so little about them that is tangible. are perhaps functional derangements simulating organic diseases, sometimes these cases yielding readily to simple remedies, but are puzzling because so evafatally and yielding no facts upon post-mortem examination which will aid in a correct diagnosis. the list of undiagnosable ailments is rapidly decreasing, for example, Richard Bright in 1827 explained that dropsical effusions are frequently due to diseases of the kidneys, Thomas Addison in 1855 ascribed to disease of the suprarenal capsule the cause of a form of anæmia accompanied by a dingy discoloration of the skin. Until recently zoster frontalis was classified among skin diseases, but now with much accuracy it is traceable to disease of Gasser's ganglion. Dr. Tucker related a case in which a lady had been twice badly frightened and her nervous system had been severely prostrated. At intervals she was attacked with an epileptiform seizure, transient paralysis of the entire left half of the body, constriction of the larynx, a state of trance, and finally a trance-like state in which she had died. This patient's mother, after a period of nervous disorder, had become a paraplegic, her father was temporarily insane, the eldest brother has an undefinable nervous disorder and a younger brother spasmodic asthma, while a sister has attacks of recurrent chorea major. In this peculiar group of nervous disorders what is the underlying cause? It is as yet unknown. This case illus-

enter the bladder unless reinforced by a sledge-ham-trated the difficulty which hedges about the diagnos-

Dr. Pearson illustrated the difficulties physicians of the fact that they overlook some points in the history of a case, as in a case in which a patient had swallowed a piece of a metal spoon and it had lodged in the duodenum and blocked up the portal vein.

Dr. W. T. Belfield presented specimens of

#### ANCHYLOSTOMUM DUODENALE.

These had been referred to him for verification by Dr. R. W. Gelbach, of Mendota, Ill., who had discovered them in the intestines of young cats that had died of anæmia. Dr. Belfield confirmed Dr. Gelbach's identification of the worms, but for further verification sent them to Dr. Joseph Leidy, of Philadelphia, who replied he thought they were anchylostoma, although he had never seen authentic examples. Dr. Belfield said the anchylostoma are small nematode worms, about half an inch long, which inhabit the duodenums of men and cats, and probably of other animals. Discovered in 1838, their pathogenic significance was recognized by Griesinger in 1851, who found in them the cause of Egyptian chlorosis. They are veritable leeches which fasten themselves to the intestinal mucous membrane and suck the blood of their host. When present in large numbers they induce pernicious and fatal anæmia by exhausting the individual's blood. In tropical climates, particularly Egypt and Brazil, cases of pernicious anæmia or chlorosis produced by them are quite frequent; in Brazil such cases are quickly cured by administering the pulp of fresh figs, which destroys the worms. Quite recently anchylostoma have been searched for and found in patients dead of pernicious anæmia in Germany. So far as Dr. Belfield knew, Dr. Gelbach is the first to discover the worms in the northern States of the Union. Their presence in cats makes nescent. At other times they are graver, often ending it probable that they infest human beings also in this latitude. The possibility of this cause of permeious anæmia should therefore be kept in mind, especially when other recognized causes-chronic nephritis, malaria, etc.-cannot be detected.

DR. E. Andrews asked if these worms were ever found in sufficient numbers to cause death, and he was answered affirmatively.

DR. W. W. JAGGARD exhibited the head of a TÆNIA MEDIOCANELLATA,

obtained in the practice of Dr. C. G. Smith. The following was the formula used:

R.	Chloroformii	
	Oleores, felicis maris	
	Ol. tiglii	
	Aquæ camphoræ	

#### MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA.

Stated Meeting, April 7, 1886.

VICE-PRESIDENT J. B. HAMILTON, M.D., IN THE CHAIR.

Dr. J. FORD THOMPSON presented the

SAC OF AN OVARIAN TUMOR

and the following history of the case and operation: Mrs. B., age 38, admitted to Garfield Hospital March 9, 1886. First noticed tumor eighteen months ago. Four months ago she was tapped in Kansas City and thirty-seven pints of fluid withdrawn. No trouble followed tapping. Her "sickness" had been quite regular all along. On admission to the hospital the case book says: "General condition excellent; at times suffers severe abdominal pains; skin inactive; tumor nearly as large as before tapping. Excellent spirits." Dr. Thompson having waited three weeks for the menses, which were overdue, determined to operate, the patient having been properly

prepared by baths, mild purgatives, etc. The operation was done on March 11. The incision was made in median line, tumor reached and tapped, thirty-six pints of fluid being drawn off. The tumor was now found to extend upwards nearly to the diaphragm, and to be closely and generally adherent at that end. The incision was continued upwards to umbilicus, the short and thick pedicle drawn out, ligatured, cut and dropped into cavity, while he turned his attention to the adhesions at the other end. The incision was again increased upwards, its length being finally about eleven inches. Some adherent omentum having been tied and removed, the adhesions suddenly gave way and the sac was removed. It was now found that the lower abdomen was full of blood. The pedicle was at once drawn out, a second ligatare applied and the stump seared with the thermo-cautery. All hemorrhage having ceased, the blood-clots were carefully and thoroughly removed. There being no oozing from any point that could be seen, the abdomen was sewed up with silver wire except at the lower end, where a drainage-tube was inserted. The patient made an excellent recovery from the an:esthetic, without vomiting or nausea. There being some pain a morphia suppository, gr. 1/3, was given.

March 12. Slept some and rested quietly last night. Some nausea this morning. Cavity washed out with 2 per cent. carbolic acid solution; only small amount of blood serum. Temp. A.M. 99.7°; pulse 90; resp. 28. P.M. temp. 101°; pulse 108; resp. 28. Temp. at midnight 100°. Milk given during day.

March 13. Rested quietly all night. Wound dressed as yesterday, looking well, and small quantity of discharge without odor. Temp. A.M. 98.8°; pulse 96; resp. 20. P.M. temp. 101.3°; pulse 100; resp. 20. Suffering from nausea and pain which was relieved by morphia. Drainage-tube shortened an inch.

March 14. Restless all night; nausea, but no vomiting. Flatus relieved by rectal tube. Wound dressed as before and looking well. Temp. A.M. 100.5°; pulse 96; resp. 20. P.M. temp. 103°; pulse 118; resp. 20. Vomiting frequently during day. Champagne given.

March 15. Midnight temp. 103°. Restless and wakeful. In the morning nausea and vomiting. At 11 A.M. wound dressed as usual; drainage-tube shortened. 1/8 gr. calomel every two hours. Noon

temp. 101.8°; pulse 110; resp. 20. Enemata of beef tea and brandy every three hours; champagne every hour. Consultation. 10:45 P.M. enema rejected and much flatus. Temp. 101.5°; pulse 124; resp. 24.

March 16. Slight nausea from champagne. Very nervous and sleepless last night. Wound dressed. Temp. 118; pulse 128. Death at 1:25 P.M.

Autopsy.—Abdominal wound healed except where drainage-tube. Small abscess between two sutures at drainage end and outside the rectus muscle. No peritonitis. Omentum fresh and no change at points of adhesion. Douglas's cul-de-sac clean. On two bunches of intestine which had apparently been in contact with drainage-tube was some plastic material. Kidneys not examined.

What did she die of? Vomiting began on the afternoon of the third day, although the temperature had been normal in the morning. He had talked with her then, and she was in excellent spirits. She had passed flatus, so there was no twist of the intestines, although they had been handled considerably in removing clots. There was great prostration from vomiting. If there was septicæmia it must have been from the stitch-hole abscess, which was of unusually rapid formation. The thing to be regretted in the operation was the hæmorrhage. Such an accident he had never had before, and he thought this time, having made the usual knot (Thomas's), that it was secure. He did not, as usual, cut with the cautery, but with scissors, intending to come back to it when he had freed the other end. The hæmorrhage was not, however, extreme for a woman of her strength, and was not the cause of the fatal termination. Undoubtedly the pedicle, which was very broad, should have been kept in sight.

The length of the incision was because of the adhesions. He was afraid to use much force, because it was possible that the sac was attached to the gall bladder, liver or stomach, and damage would have been done those organs. He therefore continued the incision upwards in order to see. Adhesions were very numerous, and a bad prognosis was given. He would, however, do such a case, or even a worse case, again, as the probabilities are that it would get well. He thought the hemorrhage was by the cutting of the first ligature. The time was fifty-five minutes, most of which was consumed in breaking adhesions and removing clots.

DR. E. M. SCHAEFFER had examined some suspicious nodules which were found on the inside of the sac. He made the following report: "The thick portion of cyst wall shows structure of sarcoma or carcinoma, i.e., large spindle cells in foci and but little fibrous stroma."

Dr. J. B. Hamilton asked the condition of the urine before and kidneys after death.

Dr. T. C. Smith asked if it was not possible that in transfixing the pedicle he had punctured an artery. What knot was used?

Dr. Busev requested Dr. Thompson to recapitulate symptoms, beginning at third day after operation.

Dr. Thompson replied that there had been nothing out of the way with the urine and that the kid-

nevs were not examined at the autopsy. He did not think that it made any difference whether an artery know just where the hæmorrhage does come from; was punctured or not, as he used Thomas's knot, whether from adhesions or pedicle—as a very small which tied everything. Beginning at the third day haemorrhage into the peritoneal cavity is a serious after operation she passed a good night; spirits ex-thing. Adhesions to the bladder were, he believed, cellent and temperature normal on morning of third the most serious. day. Pulse 96; resp. 20. In the afternoon there was nausea and pain, and the temperature went up ported a case very similar to Dr. Thompson's. The to 101.3. Pulse 100; resp. 20. On the fourth day patient had begun vomiting on the third day, and she had passed a restless night; nausea, but no vomiting. Temp. 100.5°; pulse 96; resp. 20. Vomiting a small stitch-hole abscess was found out of the way. began this afternoon, the temperature going up to DR. BUSEY said that from the autopsy it looked as 103; pulse 118; resp. 20. On fifth day the vomit if septicamia was the cause of death. He did not flatus. On sixth day, wakeful night. At midnight symptoms on the third day showed septicæmia. pulse 130. Morning temp. 101.8°; pulse 128. Died at 1:25 P.M.

DR. H. D. FRY asked if there had been a chill?

DR. THOMPSON: No; but there had been a very great change in appearance between the morning of the third day and the sixth day. He had never seen such rapid emaciation.

of urine?

DR. THOMPSON: None of the exact amount, but the catheter had been used every four hours, and the be surprised at the rapid formation of the abscess. history simply said plenty of urine passed. To a remark by one of the gentlemen Dr. Thompson said the complete formation of any abscess in previously that he did not attach the same diagnostic importance healthy tissues, but a stitch-hole abscess generally to the rate of the pulse as to the height of the tem- takes longer than five days. perature. In reply to a question by Dr. Acker he said that antiseptics were used-4 per cent. carbolic not meant to reflect at all on antiseptic surgery, and solution for hands and instruments, iodoform gauze he did not believe that it would in all cases save. over wound, and over that bichloride of mercury gauze. 2 per cent. solution of carbolic acid was regretted that a careful autopsy had not been made. used for washing out. In reply to Dr. Smith he said for the whole question turns on what was the cause that there was no shock.

artery be pierced, and if now the pedicle be tied in well done, the amount of blood lost at the pedicle two halves, the artery is held open and hæmorrhage trifling, and the theory of septicæmia was open only occurs, the ligature being like two links of a chain. to the Scotch verdict of "not proven." Was it car-

always taken around the entire pedicle.

not stop hæmorrhage.

level or just below, and in any case he did not think cause of death. hæmorrhage would occur.

came from. Was it the fault of the knot?

tery in dense tissue. He thought that he had tied appalling. this as tight as usual and had used Thomas's knot. It is, however, possible that he did not tie tight enough, and he certainly did not cauterize stump as he ought to have done. His theory, however, was in which, after recalling the titles of his various papers, that the ligature, which was small, had cut into pedicle and hæmorrhage took place from below it.

DR. SMITH said that it was an important thing to

ing had continued. The midnight temperature was believe that hæmorrhage or malignancy of the tumor 103°. Gave calomel in small doses. At noon tem- killed the patient here. Perhaps if the kidneys had perature was 101.8°; pulse 110; resp. 20; in after- been examined another reason might have been noon temp. 101.5°; pulse 124; resp. 24. Much found. He thought that the sudden onset of bad

Dr. Thompson said he believed himself that it was septicæmia-which was a more or less convenient term when we did not know the real cause. It reflects on antiseptic surgery to use this term. Nevertheless, it does not upset antisepsis, even when pus is formed, for that may occur in any of the organs of the body unexposed to the air. Innocuous pus often DR. Busey: Was there any record of the amount occurs in antiseptic surgery, and the surgeon expects it in a certain number of cases.

DR. SMITH failed to see why Dr. Thompson should

Dr. Thompson replied that the time was short for

Dr. Busey said that in his previous remarks he had

Dr. Hamilton remarked that it was greatly to be of death. The whole question is now purely one of Dr. Smith said that if in transfixing the pedicle an speculation. The operation appears to have been DR. THOMPSON explained that a third loop was cinoma of any other organ? Was it heart clot? He had seen many cases of sudden death from heart DR. SMITH thought that this third loop might be clot on the fifth or sixth day after capital operations. taken above the needle hole, in which case it would Was it a sudden failure of the heart? Was it concealed hæmorrhage? All the organs not having been DR. THOMPSON said that it was usually tied on a examined, it certainly was impossible to arrive at the

Dr. Toner said that he thought Dr. Thompson DR. SMITH wanted to know where this hamorrhage had not made the difficulties of the operation as prominent as they ought to have been. He had been DR. THOMPSON said that every ovariotomist had present at the operation and had seen the quantity endeavored to find out a perfectly safe knot, and and solidity of the adhesions, which to him, who was that it was by no means an easy thing to stop an ar- not very familiar with abdominal surgery, seemed

Dr. A. F. A. King read a paper on

## THE CONSERVATIVE ELEMENT IN DISEASE,

previously published, on this subject, he proceeded to explain that the element of conservatism must be are regulated by vital laws, and not in others, such urethral and vesical diseases and accidents incident as calculi, emboli, etc., which are either accidental to parturition, devised and practised by Dr. Emmet, products or formations, determined by physical or of New York, for the past six years. In the last chemical laws, outside the pale of nervous control. edition of his work on gynecology he treats the sub-Neither could any conservative design be discovered, ject elaborately, and gives it, as in his judgment, the or expected, in many of the pathological phenomena most rational treatment for prolapsus of the mucous observed after dissolution, because they were final and submucous tissues urethrocele, lacerations of phenomena, produced after the body began to die. the urethra from dilatation or injuries in labor, gonor-

great nerve centres.

what destructive or conservative.

consumed so much time he would stop.

#### OBSTETRICAL SOCIETY OF PHILADELPHIA.

Special Meeting, April 15, 1886. THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR. W. H. H. GITHENS, SECRETARY.

DR. M. PRICE reported two cases of EMMET'S BUTTON-HOLE OPERATION.

sought for only in those pathological phenomena that novel operation for the diagnosis and treatment of He next proceeded to explain that the vital phe-rhoeal inflammation, and abscess in the urethral wall.

nomena of pathology were acts performed by the or- I desire to report two cases of this operation, in ganism, under the control of the central nervous which no other treatment, in my judgment, would system, and for the benefit and preservation of that have been of the slightest benefit to the patients. system, by which, indeed, the entire body was owned The operation recommended by Dr. Emmet is what and governed, and the cessation of whose functions he designates as his "button-hole operation of the was immediate death. Under all circumstances, urethra," and may be performed either in the Sims's therefore, if life was to be maintained, the functions position or in the lithotomy position. The operation of the nervous system must be preserved, pleasantly consists in opening the urethra from three-fourths to and by physiological processes if they can, painfully one inch, midway between the urethral orifice and and by pathological processes if they must. Hence the neck of the bladder, thus giving ample room for many vital processes which appear to kill, may all inspection of the canal for any growth or condithe time have postponed the fatal event, by contrib-tion that may require drainage or operative proceuting to maintain the functions and nutrition of the dure. In those cases where the opening is made for diagnostic purposes simply, the opening may be His conclusions were: that in studying the vital closed with sutures, or be allowed to close in its own phenomena of pathology, with a view to understand way. Many cases of urethral irritation are wondertheir natural purposes and conservative design, we fully benefited and most of them entirely cured simmust bear in mind: First: That these processes are ply by the free drainage it allows. The mucous memacts executed by the body. Second: That these acts brane of the urethra and vagina are tacked together are authorized, regulated, and controlled, by the cen- in these cases to prevent retraction. In the operatral nervous system, which owns the organism, and tion for urethrocele, the urethral opening is made constitutes the coordinating power by which the whole through the pouch or dilated portion of the urethra, body is governed, and its forces distributed. *Third:* while a block tin bougie is held in the bladder. The That this government is, in every particular, *limited:* opening is continued down into the mucous mem-—limited in material, limited in force, and limited as brane covering the sound, and a sufficiently large to duration, and hence, for evident reasons, its con-piece of the mucous membrane of the vagina removed servative designs may fail, and death follow. Fourth: to insure the removal of the pouch. The mucous Unless the vital processes of pathology are studied membrane is then taken under the sound and drawn in relation with these fundamental facts, it will be through the button-hole opening, so as to obliterate impossible for us to say, with anything like judicial the redundancy of mucous membrane. Sutures are accuracy, what processes are right or wrong, and then passed from the vaginal surface to the block tin sound and back on the opposite side in the same po-Dr. King further remarked that he had begun with sition, all the sutures being thus introduced before the view of explaining "The Conservative Function cutting away the redundant mucous membrane held of Fever," but that the premises which he had laid by a tenaculum in the hands of an assistant. This down had led him off. He said he believed that is to prevent the possibility of failing to incorporate fever was a conservative process set up by the nerv- the mucous membrane of the urethra in the sutures ous system in antagonism to some pathological pro- and so fail to secure a perfect result, inasmuch as it cess, and on the whole was not killing but helping to is the mucous membrane which, on account of its save the patient. He said that he had not fully ex- diseased condition, is giving the most trouble. This plained this or the above, but as he had already is also the operation performed for prolapse of the mucous membrane; its redundancy being pulled through the button-hole opening, back from the meatus, and there fastened. The redundancy is then cut away, instead of cauterizing it, as in the past.

The first case is that of a lady 32 years of age, the mother of four children. The last labor was very brief, as the woman was delivered with forceps in the hands of a medical man, who had another engagement and could not be delayed. This was four years ago. The woman, when she came into my hands, was suffering from a double laceration of the cervix, which was torn back to the vaginal vault; with lacer-I desire to call the attention of the Society to a ation of the perineum back to the sphyncter; and

confinement, with inability at times to go more than half an hour without passing urine; at other times she was compelled to micturate every few moments, the urine passing with the greatest difficulty. was making great inroads upon her health. had consulted quite a number of physicians and was treated, from what I can understand, for "cystitis" and "ulceration of the womb." This, I believe, was had rendered her such efficient service at her delivof Dr. Emmet. An opening one and one-fourth ing all irritation of body and mind. inches in length on the vaginal surface and threefourths of an inch in the urethral wall was made and a case of the superfluous mucous membrane, both from the urethrocele and from the mouth of the urethra, drawn through the vaginal aperture, and the sutures put in before cutting away the redundancy of tissue. Seven sutures were applied, and a perfect result was obtained in one week. When the sutures were removed they were all found in a space not larger than the end of my thumb, in consequence of the contraction of the tissues. The woman passed her water ten hours after the operation, and continued to do so afterward without pain or discomfort. At the present time, three months after the operation, she says she is better than she has been at any other time since her last labor. I would also state that the perineum and cervix were repaired at the same time. Silk-worm gut sutures were used in this case.

The second case is one of great interest from a medico-legal point of view, as the cavity of the urethrocele was lined with a pus secreting membrane. The patient, although under my care, was not examined until after the urethrocele became very troublesome. I then learned that difficulty from this source, gradually growing worse had been experienced for four years. These facts were not ascertained until the husband had repeatedly presented himself for treatment of a mild urethritis which always developed after sexual intercourse. His condition had been attributed to other than legitimate causes. After a considerable number of attacks, he began to inquire the cause of his affliction. Having been asked the question as to "foreign relations," he stoutly denied any such cause, though he admitted that he had suffered from gonorrhoea early in life, but had been completely cured long before the time of his marriage, some fifteen years ago. He was then asked to have his wife present herself for examination at my office. I found her suffering from laceration of the cervix and a urethrocele. The urethrocele was exceedingly tender to pressure and had the feel of a fibrous growth; no fluctuation could be detected upon light handling in examination. A pus cavity was suspected, from the painful character of the tumor and the husband's condition. Repeated attacks of urethritis following sexual intercourse indicated an

with a urethrocele that would have held two drachms unusually irritating discharge from some source, and of urine. There was also quite a protrusion of the as the mucous surface of the vagina and cervix was mucous membrane of the urethra, what Emmet calls in a healthy condition, and the discharges mild and "hemorrhoids of the urethra." from constant strain- unirritating, there could be but one rational explanaing to pass urine. This woman had suffered con-tion of the husband's condition, viz: a suppurating stant tenesmus or bearing down pains ever since her sacculated condition of the urethrocele, with periodical discharges of pus. Examination under ether fully confirmed the suspected pathological condition. The urethrocele was thickened, corrugated, and filled with purulent ammoniacal urine. The patient was placed in Sims's position, and the operation was performed as detailed in the other case, except that the pus-secreting membrane was carefully removed with the scissors, and the edges of the healthy mucous the diagnosis of her trouble by the gentleman who membrane were picked up with a tenaculum and the sutures of silk-worm gut introduced as in the case ery. The patient was operated on after the method before cited. A perfect result was obtained, remov-

Dr. Joseph Price reported for Dr. Barton Hirst,

## VULVO-RECTAL FISTULA FROM VIOLENCE DURING FIRST COITION.

The patient, a young woman of 22 years, presented herself at the gynecological clinic of the Philadelphia Dispensary, with the following history: Previous to her marriage, which took place eighteen months ago, she had been a perfectly healthy woman. From the first attempt at sexual intercourse with her husband, which caused her to suffer such acute pain that she almost fainted, she dates all her trouble. The sexual act was also followed by severe hæmorrhage, which persisted for a month; the passage of fæces and flatus per vulvam was at once noticed. Every repetition of the sexual act for the next two or three weeks was followed by renewed bleeding, and even at the present time she suffers severely during intercourse. The passage of the fæcal matter through the vulva gradually increased in degree until the rectum was evacuated entirely through the vulva. There has been entire inability to retain flatus and fæces. Examination: The finger on entering the vulva passes at once into the rectum through a patulous opening of sufficient size to admit two fingers. Inspection shows a perfectly intact crescentic hymen of moderate thickness and rigidity, having a small anterior opening. Immediately in front of its posterior attachment is an irregular transverse tear, an inch and a half in its longest diameter, with thickened and everted edges, extending backwards and upwards for about one and one-half inches, exposing to view the mucous membrane of the bowel. The vagina is small and has evidently never been entered. The operation proposed by Dr. Joseph Price, and done by him March 16, 1886, consisted in freshening the edges of the tear, partially loosening the hymen from its attachment and using it as a flap to supply the deficiency. Spotted silk-worm gut sutures were used, and the closure, after the operation, was complete and resulted in perfect union. This form of injury to the vulva is very rare, for although sixteen cases1

<sup>1</sup> Paul F. Mundé, two cases, Boston Med. and Surg. Jour., 1885. Treiss, two cases, Centralbl. f. Gynashologie, 1885. Chadwick, one case, Boston Med. and Surg. Journal. Colles, one case, London Med. Times and Gazette.

picion of specific taint in either man or wife.

was a slight anal sphyncter, and except when affected three-quarters in thickness. with diarrhea she had control over her evacuations. cember, 1859, at the Samaritan Hospital.

introduced in closing the wound.

Dr. Charles Meigs Wilson exhibited a

FIBROID POLYPUS OF THE UTERUS. This specimen was removed three weeks ago from

Schrieder, one case, "Gynecolngy," last edition.
Blumenthal, one case, London Med. Times and Gazette, 1860.
Thompson, one case, Medical News, 1885.
Ross, one case, Canadian Medical and Surgical Journal.
Massalitinow, one case, territabli. f. Gynakologie.
Kleinwachter, one case, Wien Med. Presse, 1885.
Cayley, two cases, Indian Med. Gazette, 1872.
Denmann, one case, Lect. in Allgemein Hospital, Vienna.

Dr. Goodell thought it was an error to expect The only case upon record which corresponds to harmorrhage after the removal of uterine fibroids. this was operated upon by Sir Spencer Wells, in De- Velpeau had removed a very large number of these tumors, and his method had been to cut them away DR. PRICE remarked that eighteen gut sutures were by means of a knife, and yet he had hæmorrhage in two cases only. Dr. Goodell has removed very many of these tumors, and has employed every method; he has never had any trouble from hæmorrhage. In Constantinople, while young in experience, and in consultation with another very young man, he saw a case in which auto-enucleation had commenced. The tumor was too large for removal by means of the écraseur, as the vagina was so filled up that the wire could not be got up to the base of the tumor. They concluded to cut off all they could

of rupture of the vagina have been reported dur- the uterus of a patient with the following history: ing late years as occurring during coition, only one For the past three years she had been flooding almost of them, recorded by Blumenthal and operated on constantly. Her flow had increased regularly at her by Sir Spencer Wells at the Samaritan Hospital, in catamenial periods, and at no time had it entirely 1860, bears any resemblance to the present case, ceased. See had suffered all that time agonizing which, from the careful analysis given it by Dr. Har-ris, is without doubt one of vulva-rectal fistula. This The continued loss of blood had reduced her weight form of fistula is much less common than the recto- one fourth, and the continued anæmia of her nerve vaginal. The case here reported is of especial in- centres had produced characteristic effects. During terest from the fact that the traumatism undoubtedly all this time she had had given her all the agents of occurred during first coition; from the virginal con- the pharmacopoeia vaunted for their efficacy in condition of the hymen and from the long time during trolling uterine hæmorrhage. But the cavity of the which sexual relations were maintained under circulterus had never been explored, save in a desultory cumstances which must have been disagreeable to way with a sound. When first seen she was extremeboth husband and wife. There was no sign or sus- ly anæmic, emaciated, troubled with insomnia, and had a very irritable stomach. The uterns was dilated Dr. R. P. Harris remarked that he had seen and with the Ellwood Wilson curved dilator. The growth, examined the patient, and was struck with her ema-then readily seen, was grasped with a volsellum and ciation. He inquired of her sister if she had not lost dragged as far as possible from the uterus; a curved a great deal of flesh since her marriage. This brought crescentic shaped, probe-pointed bistoury was then out three photographs, all of which represented a made to sweep over the surface of the growth until short woman of full habit, one of them having been it came in contact with the sessile attachment of the taken two months before her marriage. The sister tumor, which was severed with a sawing movement stated that the patient had no control over her evac- of the knife. Prior to the operation large doses of uations from the rectum, and that she was being constantly soiled by their escape. But for the fact that for forty-eight hours, in order to insure powerful contract, the husband had been deprived of his prepuce in traction of the uterus after the tumor was removed. Infancy, thereby rendering the penis callous by the Immediately after the ablation of the growth, the exposure of the glans to the air, it is hardly possible cavity of the uterus was smeared with a solution of that he could have forced the organ through the flesh one part of Tait's iodine and two parts of pure caras he did, without so much personal suffering as to bolic acid. During the operation the patient lost compel him to desist. Possibly also the tissues pen- half an ounce of blood. The removal of the tumor etrated may have been less resisting than normal. As would undoubtedly been accompanied by excessive the arm of a feetus has been known to perforate the hæmorrhage had not the precaution have been taken rectum and protrude at the anus during labor, with- to secure prompt uterine contraction by the previous out laceration of the perineum, there must be in some administration of ergot. The patient made a happy women a much less than usual strength in the rectal recovery, has lost no blood at all since the operation, wall. In considering the emaciation of this woman has gained in weight and improved in appetite. The during the eighteen months of her married life, the case carries with it its own lessons. All the fruitless question naturally arises, was this condition due to medication and the long period of suffering and disthe want of rectal alimentation, to the constant loss tress might have been avoided had her medical atof f.ecal matter, or to the depressing effects of her tendants, at the beginning, dilated and explored the condition, weakening her appetite and rendering her uterine cavity, removing the cause of the hamorrhage life miserable? The opening through the fossa na- instead of temporizing and making use of methods ricularis into the rectum corresponded exactly with which at best, in cases of continued hamorrhage some of the cases of congenital malformation which from the cavity of the uterus, are of a prophylactic Dr. Harris had met with, and particularly with one nature. The polypus when fresh was four inches in in a large stout primapara. In her, however, there length, two and a quarter in breadth, and one and

get at, and then gave ergot. The next day another uterus and had been partially enucleated before oplarge slice was removed, and at the end of a week eration. The patient was very weak, and septicæthey succeeded in dividing the false pedicle and all mia and death resulted. In a case in which he used was safely removed, without any hæmorrhage what the wire écraseur a portion of the tumor was left; it ever. Since then he has ceased to fear hæmorrhage, was thrown off by auto-enucleation, and was very and thinks a danger is incurred by the use of ergot offensive. The patient did not suffer from sepsis, in causing contraction of the cervix uteri and incar- but having wounded his own finger with a tenaculum cerating the tumor. He removes many submucous in its removal, he was very sick in consequence. He tumors by dilating the cervix with his dilator, passing thinks the spoon curette or saw would be the best in the polypus forceps and accomplishing the diag- instrument in the enucleation of large fibroids. nosis and removal at the same time, the latter being effected by twisting. When he has recourse to the before and after operation. He formerly used carécraseur. he now uses the finest piano-wire, which is bolic acid, but now prefers the mercuric chloride. more efficient than the heavier and less liable to He prefers the high note piano wire, which has never break. He first pushes the écraseur up to the fundus uteri with the wire bent over, and then coaxes and pushes up with the écraseur, so as to correct any injury to the uterine tissue.

Dr. Howard A. Kelly said the choice of method in these cases should depend largely upon the individual peculiarity. Chassaignac's écraseur had rendered him good service in those polypi having broader bases of attachment, but when this is at the fundus the different strands is unequal. and a large tumor chokes the vagina or cervix uteri, the difficulty of satisfactorily fixing the loop is very great. The porte-chaine added to the écraseur by Marion Sims is serviceable, but nothing will compare with the flexible, easily adjusted wire of a Braxton-Hicks écraseur. Where the pedicle was neither it piecemeal. He uses vinegar if a styptic is needed. large nor dense he has had great satisfaction in the use of phosphor-bronze wire, which is so much more easily manipulated than piano-wire. Scanzoni's plan of cutting the tumor off when the pedicle is long is excellent and safe. It goes without saying now that the tumor down and cut it off in pieces. He feared rigid antiseptic precautions should accompany any such operation.

DR. PARISH did not think there was much difference in the method of different operators. He never gives ergot before any intra-uterine operation in which he wishes relaxation of the cervix. With the écra-

would not give ergot beforehand for fear of causing to perform the radical operation. The womb was rigidity of the cervical tissues. In one instance large accordingly retroverted, its attachments to the bladfirm, dense character of the pedicle, and he had re- with two strong ligatures, and the womb removed. course to cutting away portions of the tumor, the The large gaping wound was closed by seven wire remainder being thrown off by natural action. The sutures, leaving only a small opening through which

Dr. Goodell carefully cleanses out the vagina broken in his hands, as it cuts as well as crushes.

DR. W. S. STEWART is glad to hear about the the wire up, and in this way has little trouble in get-ting it around the base of the tumor. Before tight-been using triple twisted wire and has been much ening the wire he removes traction from the tumor troubled by its breaking, so that he has given it up for the chain. He had mentioned his trouble to inversion of the uterus that may have been caused Gemrig, who recommended iron wire, which has in pulling the tumor down. Now when the wire is been answering a very good purpose. He much tightened the tumor will be divided without fear of prefers Labarraque's solution of chlorinated soda as an antiseptic and disinfectant.

Dr. Goodell remarked that the finer piano wire was not stronger, but was more efficient, as it cuts more easily through the tissues. Twisted wire will break more easily than single because the strain on

DR. BAER agrees with Drs. Goodell and Parish as to the unadvisability of using ergot before operating. He has given up the écraseur on account of the difficulty attending the breaking of the wire. He is now in the habit of pulling down the tumor and removing

Dr. Wilson has seen one death follow the use of the écraseur, and has had trouble in adjusting the wire; the liability of removing uterine tissue by the wire is a great danger. He thinks it better to drag hæmorrhage in this patient on account of the fearful loss of blood which she had already sustained. He considered prophylaxis the safer course.

#### VAGINAL HYSTERECTOMY.

Dr. Wm. GOODELL exhibited a womb which he had seur he uses wire and introduces it in the manner removed per vaginam. The woman had been brought described by Dr. Goodell, and uses jeweler's pliers to him by Dr. F. R. Gerhard, of Douglassville, Pa. to manipulate the wire, pushing it up and around the She was 65 years old and had given birth to twelve tumor. He has no fears of sepsis if all the tumor be children. She had a hypertrophic elongation of the removed, but he takes the precaution of injecting a womb, the sound giving a measurement of minus five very hot solution of mercuric chloride after operating, inches. Her cervix was outside of her body, and it Dr. Montgomery has had free hæmorrhage after was very greatly enlarged in every direction by a removing uterine fibroids by means of the écraseur. carcinoma. On March 10, before the students of This harmorrhage was so free in one case that hot the University of Pennsylvania, he amputated the water injections would not control it, and Mensel cervix after applying an elastic ligature; but finding solution was applied with success. He, however, that Douglas's pouch had been opened, he concluded piano wire snapped several times on account of the der severed, the broad ligaments tied en masse, each tumor had been adherent to the posterior wall of the ligatures passed and acted as drainage-tubes.

the twenty-third day after the operation.

this connection to emphasize a point of vital imporing should perforate the peritoneum, the previous intance in every operation where there is either artificial flammatory exudation would save the peritoneal or pathological descent of the cervix proper. The cavity from invasion. slightest traction, elongating the cervix, draws the vaginal vault down over the displaced supra-vaginal eminent American surgeon to priority in this matter portion, like the finger of a glove, and unless especial to be forgotten. The credit of originating the highcare is directed to this point, there is imminent dan- est practicable one shaped amputation of the uterus, ger of scalping the vagina in any operation then per- and establishing its great utility, its safety and relaformed on the cervix. In lacerated cervix, particularly where Dawson's scissors are used (and great He uses no cautery and controls harmorrhage perdownward traction is fashionable), and the bases of feetly by the effect of the strong downward traction the broad ligaments are opened in this way; and in upon the vessels. amputation intended to be limited to the infravaginal scalping process lays bare a broad tract of areolar tissue in the vault around the cervix, or, worst of all, infection. He would ask Dr. Goodell in relation to was accompanied by great hæmorrhage. the after-treatment of this case. In the latest concologie, he clearly shows that those cases ran a most after operation with a view of carrying off foul disperitoneal surfaces which have just formed delicate and is a good and safe plan of after treatment. adhesions, and breaks up the early steps of repair do harm, and help form a plug for the wound.

extirpation of the uterus. How long is the patient high operations. One death was from secondary likely to live after this operation? If partial removal harmorrhage, one from tetanus, one from a frank perigives equal relief from the disease for which the op- tonitis and one from septicemia. He thinks the high eration is performed, and an equal or greater chance operation the most feasible one in the majority of for a prolongation of life, it is to be preferred as the cases in which the womb is movable and he has exleast dangerous. Hoffmeier in a summary of German tirpated the womb but twice for carcinoma. gynecological work opposes total extirpation if it can be avoided. He reports 145 cases of partial and thirty-nine of total removal of the uterus. Ten of each series were fatal. In six of the partial cases the result was unknown. Of the total removals six only were living at the end of two years and none at the success in removing such a large tumor. He, Dr. end of three years; while of the partial six still lived Goodell, had on one occasion removed a tumor weigh-

Sublimated cotton was lightly packed into the vagina. gested by Sims and Van de Warker in cases of mal-This was removed twice a day and the womb syringed ignant disease of the cervix, Dr. Montgomery makes out with a 1-2000 solution of mercuric chloride. an incision into the uterus at the vaginal junction and On the next day the temperature rose to 100.2°, but dissects upward as closely as possible to the peritoneal it never after that day reached 100°. The sutures surface while making traction on the cervix; thus, as were removed on the fourteenth day, and with some it were, enucleates the uterus, leaving a very thin difficulty, as they were now high up in the apex of a wall; he then stuffs this cavity with a mixture of equal cone-shaped vagina. She was able to go home on quantities of zinc chloride and water on cotton tampons to cause a slough of any diseased tissue that DR, H. A. KELLY remarked that he wished in may have been left behind. If by chance the slough-

Dr. H. A. Kelly does not wish the claim of an

Dr. Parish mentioned an earlier operation by cervix, as in this case of Dr. Goodell's, either the Hirth, of San Antonio, Texas, who practiced the method described by Dr. Montgomery, of enucleating the uterus from its peritoneal covering. He divided Douglas's pouch is laid open. It is unnecessary to the vaginal mucous membrane and gradually shelled enlarge upon the greatly increased dangers of septic or scooped out the uterine tissue. The operation

DR. C. M. WILSON, thought such an operation very tribution to this subject by Dr. Brennecke, of Magde-dangerous and liable to be followed by secondary burg, in the Zeitschrift fur Geburtshulfr und Gyne- hæmorrhage. He has in two cases after Dr. Baker's method; used a hot tamponade of the uterus and vagifavorable course in which the iodoform tampon was na after the operation. Dr.M.McCormick, of London, not removed for six or seven days, and that syringing packed the stump with bandage or gauze, filled with iodoform, and allowed it to remain undisturbed for charges is a pernicious practice, as it separates the nine days. This was perfectly sweet when removed,

Dr. Goodell said that the method of Brennecke's, without the possibility of accomplishing its purpose. of not washing, seemed to him to be undoubtedly a A point well worthy attention is Brennecke's method good one, and he would in future adopt it. He once of dealing with the upper part of the stump of the had an alarming hæmorrhage from the division of a broad ligaments, which are caught in stout ligatures. large vessel after a hole had been accidently made in Experience has shown that the distal end is very apt Douglas's cul-de-sac in the high amputation. Conseto slough, and to secure an indemnity from the dan- quently he could not pack the vagina for fear of forcgers of sloughing, Brennecke ties the ligatures of op- ing blood, etc., into the peritoneal cavity, and he had posite sides across and everts the two stumps, thus to control the bleeding by twisting a wire around it. fastened together, into the vagina, where they cannot He generally uses Paquelin to control hæmorrhage in these cases, and has operated upon at least 200 with DR. MONTGOMERY questions the propriety of total only four deaths. Neither of the fatal cases were

DR. H. A. KELLY exhibited the sac of an

OVARIAN TUMOR THAT WEIGHED AT REMOVAL ONE HUNDRED POUNDS.

DR GOODELL congratulated Dr. Kelly upon his at the end of the fifth year. Following the plan sug- ing 112 pounds from a woman, who after the operation

weighed only 74 pounds. As in Dr. Kelly's patient the tumor reached the patient's knees and she could not lie down. After the operation the large folds of the stretched skin were a great annoyance, but after some months it had entirely contracted. The patient made a complete recovery.

Dr. M. Price had been present at Dr. Kelly's operation. A large vein was torn and a stream of blood as large as his finger poured out. The patient collapsed instantly and Dr. Price thought her dead, but he was surprised and pleased at the effects of a hypodermatic injection of 3j. of sulphuric ether which restored the pulsation quickly.

(To be concluded.)

## DOMESTIC CORRESPONDENCE

#### THE DANGERS OF KISSING.

To the Editor of the Journal:

Dear Sir: - Apropos to the paper of Dr. Samuel S. Adams, in your issue of May 22, allow me to thank him for the paper and to report two cases of syphilis from kissing.

About 1872 a young man presented himself at my office with a full-blown chancre on his penis, and syphilitic sore mouth. He was treated secundam artem and went his way. Some weeks later I received a letter from him saying that his chancre was healed and that he was doing well, but that he was in further trouble-that a few days after consulting me he had and that she had syphilitic sore mouth as a result.

Recently I was consulted by a young married woman. She was a stout, robust person, of great natural physical strength. She presented a squamous eruption, syphilitic sore mouth and condylomata. I sent for her husband. He was perfectly healthy; vowed, and I believe truthfully, that he was and had been pure. I told him the condition of his wife, and warned him against infection. We then began an investigation of the origin of the wife's infection. And it may be well to state here that I had not questioned her chastity. I knew the woman. The search was attended by success. A brother had long been absent, returned home with syphilis, kissed his sister and infected her. He remained at home for some time, and during the time was treated for his malady by a physician within three minutes' walk of my office.

If these cases will help the cause I will be rejoiced. R. STANSBURY SUTTON.

## BOOK REVIEWS.

THE LETTSOMIAN LECTURES Delivered at the Medical Society of London, 1872, on The Pathology AND TREATMENT OF SOME DISEASES OF THE LIVER. 8vo., pp. viii, iii. Philadelphia: P. Blakiston, Son & Co. Chicago: W. T. Keener.

It is to be regretted that Dr. Habershon should have sent out a second edition of these lectures without making radical changes in the form and subjectmatter. It is equally to be regretted that he should have chosen such a large subject for three lectures, and so small a book. It is not to be compared in any way with his Lumleian Lectures on the "Pneumogastric Nerve," delivered in 1876. What there is of therapeutics in the book cannot be highly commended; the pathology, which one would expect from the title, amounts to almost nothing, and the physiology is not up to date. There is no index to the book.

LECTURES ON THE DISEASES OF THE NOSE AND Throat. Delivered during the Spring Session of Jefferson Medical College. By CHARLES E. SAJous, M.D., Lecturer on Rhinology and Laryngology in the Spring Course of Jefferson Medical College; One of the physicians in charge of the Throat Department, Jefferson College Hospital. Fellow of the American Laryngological Association, Corresponding Member of the Royal Society of Belgium, and of the Medical Society of Warsaw (Poland), etc., etc. Illustrated with One Hundred Chromo-Lithographs, from Oil Paintings by the Author, and ninety-three Engravings on Wood. 8vo., pp. xii, 439. Philadelphia: F. A. Davis, Att'y, Publisher, 1885.

Medical literature of recent date is so profuse, so kissed a young lady at an evening party in Altoona, verbose, and so frequently is one book but a paraphrase of another, that we are gratified and much refreshed by the originality of Sajous' Lectures on the Diseases of the Nose and Throat. Like a certain work of which it was facetiously written-" The good things are not new and the new things are not good" -this book "contains both good things and new things, but unlike the first mentioned, the new things are good and many of the good things are new. Ninety-seven of the one hundred chromo-lithographs are original, nearly all of the instruments and apparatus depicted are the author's own or the author's modification; and his modifications are not of the useless variety, but they invariably impress one as precisely the improvement needed to remedy a genuine defect. Indeed, we cannot but admire the keenness of conception and wealth of device displayed in the many ingenious and withal simple inventions necessary to meet the indications.

As the difference between the normal and pathological state is often appreciable only in the change of color, this value for illustration of the numerous chromo-lithographs is at once apparent. In preparing them Dr. Sajous, again uniquely original, has performed the part of artist as well as of anatomist, and so successfully that we turn from one plate to another with ever increasing delight.

Prescriptions which comprise a number of remedies, By S. O. Habershox, M.D. Lond., F. R. C. P.; have specified in smaller type, opposite each ingredi-Late Senior Physician to, and Lecturer on Medi- ent, the particular purpose for which that agent is cine at, Guy's Hospital, etc. Second Edition. employed. Knowledge of an exact character, of applications to mucous surfaces, is thus imparted.

the paper and print are good, and typographical errors are few in number.

the work only by subscription, and hope that another edition will soon be issued to the trade so that it may wife and several sons and daughters. We hope to be within the reach of all.

## NECROLOGY.

#### WILLIAM OWEN BALDWIN, M.D.

WILLIAM OWEN BALDWIN, M.D., of Montgomery, Alabama, died at his residence in that city on Sunday, May 30, 1886. He was born in Montgomery County on August 9, 1818. Dr. Baldwin was the son of William and Celia (Fitzpatrick) Baldwin. His mother was the sister of U. S. Senator Benjamin Fitzpatrick, formerly Governor of the State of Alabama. After receiving a good collegiate education he studied medicine in the office of Dr. McLeod, of Montgomery, He attended medical lectures at the Transylvania University, Lexington, Ky., and received his degree of M.D. in 1837. He began practice in Montgomery and was associated with Dr. Wm. M. Boling, which association continued until 1848. In the meantime he visited Europe, and spent a year there in study in the leading medical schools and hospitals.

He was ambitious and well prepared in his profession, and justly took high rank among the foremost practitioners in his section of the country, and he was an interested student up to the time of his death. In debate he was a ready and eloquent speaker, and was an elegant and fluent writer. The medical journals contained numerous and valuable articles from his pen, from the time of his graduation to within the past year. His graceful tribute to the memory of his old and esteemed friend, Dr. J. Marion Sims, will be remembered by most physicians of the present day. But he also wrote well on many of the more important diseases at diquestions of interest to the profession of the South. He was an original member of the Medical Association of Alabama, has served as its President, and was a valued contributor to its Transactions. He was also an active member of the Medical and Surgical Society of Montgomery County. and was honored with is highest offices. He was a member of the American Medical Association in 1868 and its President in 1869, presiding at the meet

which we are much in need in connection with local President on that occasion is replete with Christian and patriotic sentiments, so beautifully expressed and Only the best therapeutic measures are recom- well-timed as to remain shining landmarks in the hismended; faulty ones are denounced, and others are tory of the Association. The committee charged omitted. Useless discussions and doubtful theories with organizing the Ninth International Medical Conare excluded and their space devoted to details of a gress, which is to assemble in Washington City in practical nature. Instance, the section on hyper- 1887, had chosen Dr. Baldwin as one of its Vicetrophic rhinitis or hypertrophic nasal catarrh, wherein Presidents, his success in the profession and his high the various operative procedures and the requisite character as a man fully warranting the selection. In apparatus for the effective treatment of suitable cases social life he was by nature a leader; his culture and by the galvano cautery, are described with exemplary refined feelings of a high order gave him real, not acminuteness and in a singularly lucid and interesting cidental prominence. Well versed on almost every topic, with a deferential manner and an agreeable The phraseology, throughout, is plain and concise, voice, he was the chosen and welcome oracle of every circle.

Dr. Baldwin had been in poor health for several We regret that it was found expedient to publish years, but his friends at a distance hoped his life would be spared for further usefulness. He leaves a give at some time a more complete sketch of the life of Dr. Baldwin.

## MISCELLANEOUS.

THE NEW HAMPSHIRE STATE MEDICAL SOCIETY will hold its sixty-ninth annual meeting in Concord, on June 15 and 16.

Reduced railway rates are as follows: The Concord will sell tickets to members and delegates to Concord and return at two cents a mile, each way, from Manchester, Nashua Junction, Portsmouth, Newmarket Junction, Epping, Raymond, Candia, Salem, Derry, Londonderry, Lawrence, Hooksett, Suncook, Pittsfield and Goffstown. The Northern and White Mountains Divisions of the Boston & Lowell will sell. tickets to Concord and return at two cents per mile, each way, from White River Junction, Lebanon, Enfield, Canaan, Grafton, Potter Place, East Andover, Bristol, Franklin, Boscawen, Penacook, Claremont, Newport, Bradford, Warner, Peterborough, Hancock Junction, Antrim, Hillsborough, Henniker, Contoo-cook, Groveton Junction, Lancaster, Whitefield, Fabyan's, Littleton, Lisbon, Woodsville, Haverhill, Warren, Rumney, Wentworth, Plymouth, Campton, Ashland, Meredith, Weirs, Lake Village, Laconia and Tilton. The Boston & Lowell R. R. will sell tickets from Keen and Marlboro' to Hancock Junction and return, and from Wilton, Milford and Amherst to Concord and return, for two cents per mile, each way.

To secure Reduced Rates, tickets must be bought at these Stations.

This arrangement is for June 14 to 17 inclusive. Members can take advantage of it to attend the meeting of the Council, Monday evening, and also to remain and attend the meeting of the Alumni of Dartmouth College, which will be held in Concord City, June 17.

THE CHICAGO POLICLINIC.—This school, which has now been fully organized, will begin its courses of instruction on July 6. The systematic and regular ing in New Orleans in that year. His address as courses of instruction will be held in the Hospital and Dispensary building, at the corner of Chicago and La Salle avenues. The courses will be of six weeks' duration. Dr. Wm. T. Belfield, 612 Opera House Block, is the Secretary.

THE MICHIGAN STATE MEDICAL SOCIETY will hold its twenty first annual Session in Jackson, beginning on Wednesday, June 9.

NEW YORK STATE MEDICAL ASSOCIATION, THIRD DISTRICT BRANCH will hold its second annual meeting in the Court House in Binghamton on June 17. The programme includes nineteen papers.

PROF. HANS GIERKE.—The University of Breslan has lost one of the most popular of its medical staff in Dr. Gierke, who died on the 8th inst. in the Maison de Santé at Schöneberg, near Berlin. Hans Paul Capt. Henry S. Kilbourne, Asst. Surgeon, assigned to duty at Bernhard Gierke, brother of the well-known Professor of Law in the University of Heidelberg, was born on the 19th of August, 1847, at Stettin. After completing his academic studies he came before the public with his first scientific work, "Ueber das Athmungscentrum" ("on the Respiratory Centre"). At the instance of Dr. Kölliker, he went in 1876 to Tokio to fill the Chair of Anatomy in the Imperial University of the Japanese capital. By that time, however, the seeds of a lingering malady had declared themselves, and in 1881 he returned home to assist Professor Heidenhain in the Physiological Institute at Breslau, where he was appointed in the following year Extraordinary Professor. Advancing illness compelled him to seek a more southern climate, but the change brought him no benefit. Before his death his valuable collection of Japanese objects was exhibited in the Industrial Art Museum of Berlin, while his rich assortment of Japanese pictures was purchased by the State for the Ethnographic Museum of the same city.- Lancet, May 22, 1886.

VACCINATION IN JAPAN.—The Japanese do not appear to have lost any of their faith in the efficacy of vaccination for the small-pox. They have just enacted a very stringent law on the subject, for, besides ordinary vaccination in the first year of infancy, it provides for at least two subsequent re-vaccinations at intervals of from five to seven years, so that by the time a child has reached its fifteenth year it will have been vaccinated three times. During epidemics of small-pox, local authorities also have power, when they deem it necessary, to order the vaccination of all the inhabitants of their districts, irrespective of the vaccinations required by the law. - Sanitary Bailhache, P. H., Surgeon, detailed as chairman, Board for Record, May 15, 1886.

A BILL TO PREVENT THE SALE OF IMPURE ICE has been reported by the Committee on Public Health in the Massachusetts House of Representatives. It provides that upon complaint in writing the State Board of Health may, if they think the complaint is well founded, order the sale of the ice stopped.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DITTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM MAY 22, 1886, TO MAY 28, 1886.

Lieut.-Col. Andrew K. Smith, Surgeon, Major Alfred A.

Woodhull, Surgeon, and Capt. Jas. P. Kimball, Asst. Surgeon, detailed as board to assemble at U. S. Military Academy, West Point, N. V., on June 1, 1886, to examine into the physical qualifications of members of the graduating class and the candidates for admission to the Academy. (S. O. 119, May 21, 1886.)

Major Albert Hartsuff, Surgeon, detailed as member of a board appointed to meet at the U.S. Military Academy, West Point, N. Y., on June 1 and August 25, 1886, to examine into the physical qualifications of members of the graduating class and the candidates for admission to the Academy. (S. O. 121, A. G. O., May 25, 1886.)

Par. 7, S. O. 120, A. G. O., May 24, revokes so much of par. 12, S. O. 110, A. G. O., May 21, as details Surgeon Alfred A. Woodhull as member of medical examining board to meet at West Point, N. V, on June 1, 1886.

Capt. C. K. Winne, Asst. Surgeon, granted leave of absence for twenty days, on surgeon's certificate of disability. (S. O. 54, Dept. Cal., May 17, 1886.)

Vancouver Bks., Washington Ter. (S. O. 80, Dept. Columbia, May 15, 1886.)

Capt. A. H. Appel, Asst. Surgeon, ordered for duty at Ft. Reno, Ind. Ter. (S. O. 52, Dept. Mo., May 24, 1886.)

Capt. R. B. Benham, Asst. Surgeon, ordered for temporary duty at Ft. Omaha, Neb. (S. O. 56, Dept. Platte, May 24, 1886.)

First Lieut. R. W. Johnson, Asst. Surgeon, ordered for duty at Ft. Adams, R. I. (S. O. 45, Div. Atlantic, May 25, 1886.)

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVV, DURING THE WEEK ENDING MAY  $_{20}$ ,  $_{1856}$ .

Dickson, S. H., P. A. Surgeon, detached from the Naval Academy and to the "Constellation."

Simon, W. J., Surgeon, detached from the Naval Academy and to the "Constellation."

Kidder, B. H., Surgeon, detached from the "Powhatan" and to the "Tennessee." Rhoades, A. C., Surgeon, detached from the "Tennessee," pro-

ceed home and wait orders. Cordeiro, F. J. B., Asst. Surgeon, detached from the "Pow-

hatan," proceed home and wait orders.

Clark, J. 11., Surgeon, ordered for examination preliminary to

Hugg, Joseph, Surgeon, detached from the "Minnesota" and granted sick leave. Beaumont, H. N., Surgeon, ordered to the receiving ship

" Minnesota." Law, 11. L., Surgeon, detached from the "Wabash" and

granted sick leave. Henry, Chas. P., Asst. Surgeon, ordered to the receiving ship

"New Hampshire."

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U, S, MARINE HOS-PITAL SERVICE FOR THE THREE WEEKS ENDED MAY 22, 1886.

physical examination of candidates for appointment as cadets, Revenue Marine Service. May 19, 1886.

Wyman, Walter, Surgeon, granted leave of absence for thirty days. May 14, 1886.

Stoner, G. W., Surgeon, detailed as recorder, Board for physical examination of candidates for appointment as cadets, Revenue Marine Service. May 19, 1886.

Banks, C. E., P. A. Surgeon, leave of absence extended four days. May 5, 1886.

Bratton, W. D., Asst. Surgeon, detailed as medical officer, Revenue Str. " Corwin," during cruise. May 22, 1886.

Perry, T. B., Asst. Surgeon, appointed an Asst. Surgeon, May 21, 1886. Assigned to temporary duty at San Francisco, Cal. May 22, 1886.

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# ADDRESS IN STATE MEDICINE.

BY JOHN H. RAUCH, M.D.,

OF ILLINOIS.

CHAIRMAN OF THE SECTION OF STATE MEDICINE.

Delivered at the Thirty-Seventh Annual Session of the American Medical Association, in St. Louis, on May 6, 1886.

Article II, Section 4 of the By-Laws of the Association prescribes that the "chairmen of the several directions most fitted for the well-being of the com-Sections shall prepare and read, in the general sessions of the Association, papers on the advances and medicine to be, in quasi-legal phraseology, 'the office discoveries of the past year in the branches of science of the sanitarian promoted by the State," and he

included in their several sections." first, to define State Medicine and the branches of generally, and the State as a controlling and interferscience which it includes. I have been unable to find ing influence, shall have ceased to be-the one bea definition sufficiently comprehensive to cover what cause every member of a perfected community will is conceived to be properly embraced within the scope be a sanitarian, and the other because in such an of State Medicine. Dunglison defines it to be "the ideal community State interference will have become medical knowledge brought to bear on State objects, unnecessary. as on public hygiene and matters pertaining to medical jurisprudence." In the introduction to his Man- to the sanitarian in this definition, a distinction beual of Practical Hygiene, Parkes, in pointing out the tween preventive medicine-the field of the sanitalimitations of his subject, says: "In some cases the rian, and curative medicine—the field of the physician. rules of hygiene could not be followed, however much But I think it is coming to be recognized that such a disthe individual might desire to do so. For example, tinction is artificial and unnecessary, and I agree with pure air is a necessity for health; but an individual Richardson, who, in speaking of the preventive scheme may have little control over the air which surrounds of medicine, says of the so-called science and art of him, and which he must draw into his lungs. He preventive medicine: "It is not a science, it is not may be powerless to prevent other persons from an art, separated necessarily or properly from curative contaminating his air and thereby striking at the very medicine. On the contrary, the study of prevention foundation of his health and happiness. Here, as in and cure proceed well together, and he is the most so many other cases which demand regulation of the perfect sanitarian, and he is the most accomplished conduct of individuals towards each other, the State and useful physician, who knows most both of the steps in for the protection of its citizens, and enacts prevention of disease and of the nature and treatrules which shall be binding upon all. Hence arises nent of disease; he who knows, in fact, the before what is now termed 'State Medicine'—a matter of and the after of each striking phenomenon of disease the greatest importance.'

But in illustrating this "matter of the greatest importance," Dr. Parkes clearly confines State Medi- quotations may be admissible. Addressing the Ascine to the relation of the State to purely sanitary sociation at the Atlanta meeting in 1879, on "The matters—the protection of the individual against Regulation of Medical Practice by State Boards of being placed under unfavorable hygienic conditions Health as Exemplified by the Execution of the Law by the action of others, as of workmen by an ignor- in Illinois," Dr. II. A. Johnson suggested, in his conant or careless employer, of tenants by landlords, of clusion, "that it is the duty of the State to protect its food consumers by adulteration, etc., etc.

preliminary lecture of his course on State Medicine, well as from any other source of danger to public

delivered in 1875. "State Medicine," he says, "has been written about, talked about, and quarrelled about, but it has rarely been explicitly defined, and to many it conveys no very distinct idea. It has been confounded with public health, and generally much misunderstood, the part being frequently taken for the whole, and the wider scope of its action but little apprehended. It includes the questions of public health and hygiene, general, special and individual. but its own appropriate province is such general control as will determine the several specialties in the munity. In fact, we may succinctly define State predicts both its perfection and its extinction when In attempting to discharge this duty it will be well, the sanitarian as differentiated from the community

There is still the limitation of the term "medicine" that is presented for his observation."

In this evolution of a definition one or two more citizens from the injuries they may sustain from the De Chaumont greatly widened this definition in the practice of incompetent physicians and surgeons, as tions are limited to dealing with sanitary questions; and rob them of their money. with the removal of the causes of preventable disease and premature death. This Board, however, is also reasonable amount of education to fit one for the charged with the execution of the act to regulate the practice of medicine in the State; and thus the medical profession, one of the most important agencies which is concerned with the interests of health and life, is brought within the scope of sanitary legislation. To improve the status of the individual practitioner, and to develop a well-trained and thoroughly educated medical profession, must result in increasing the value of this force in sanitary science and public hygiene; a force which, in the nature of things, must always exist so long as there are physicians and patients; and the character and influence of which must always hold a direct relation to the tone, the attainments, and the competency of those by whom it is exerted."

The application of the term State Medicine is thus seen to have been successively extended from the agency of the State in matters of hygiene beyond the control of the individual, first to measures of preventive medicine in general, and thence to curative medicine in so far as it is the duty of the State to regulate medical practice. State Medicine may therefore be now defined as the connection of the State with "that branch of science which relates to the PREVENTION, CURE or ALLEVIATION of the diseases of the human body." It embraces not only all public sanitary measures, but also the practice of medicine in so far as this is regulated by the State. Therefore, any report upon "the advances and discoveries of the past year" in the branches included in this Section may logically begin with the subject of the regulation of medical practice, which also and necessarily includes the subject of medical education.

### STATE REGULATION OF MEDICAL PRACTICE AND MEDICAL EDUCATION.

Before proceeding to discuss the present status and recent progress in these matters, it may be well to set forth, briefly, the authority by which the State assumes to regulate the practice of medicine. That authority is the inherent and plenary power which resides in the State to prohibit all things hurtful, and to promote all things helpful, to the comfort, welfare and safety of society. Speaking specifically of the Illinois Medical Practice Act, ex-Governor John M. Hamilton has recently said: "The object of the Medical Practice Act was primarily a police regulation. Incidentally it was educational. Primarily the purpose of the law was to rid the State of incompetent, ignorant and dangerous mountebanks and quacks, who were carrying on a fraudulent and nefarious business by all manner of deceit in a pretended practice of medicine among the people. It was to protect the lives, the health, the morals and the property of the people of the State from the shame-

health." And in the summary prefacing the Sixth less depredations of swindlers and adventurers who. Annual (1883) Report of the Illinois State Board of by all manner of false representations and deceptive Health, it is observed that "Boards of health are promises, were taking advantage of the misfortunes created and maintained for the conservation of the of the people in sickness and ailments of all kinds, interests of health and life. Ordinarily their func- to still further injure their health, endanger their lives

"Incidentally the law was designed to require a practice of medicine before he should be allowed to enter that profession, so directly and intimately connected with the lives, the health and the happiness of the people. Both these purposes come clearly within the police powers of the State in affording

such protection to its citizens.

An unbroken line of authorities, from Blackstone down to the most recent decisions of the various Supreme Courts, hold that the police powers of the State are plenary and inalienable, co-extensive with the natural right of self-protection; that their exercise is demanded and justified by the "law of over-ruling necessity;" and that broadly, they are the foundation of all laws and regulations for the well-being or government of the people, and especially, of all laws, ordinances, rules and regulations for the preservation of the health or safety of the community. Early in the history of the country laws, thus founded, were enacted for the regulation of the practice of medicine. But the sparse population and the conditions which then obtained, as well as the fact that many of the enactments were so onerous and restrictive that they came to be regarded by the public as in the nature of class legislation, operating to make the profession a close guild or trades union, rendered their enforcement impracticable. They were gradually repealed or fell into a state of "innocuous desuetude," until about 1830-1840 there were practically no restrictions, the profession became a "free-for-all;" bogus diplomas were openly and unblushingly sold and displayed by their purchasers, as credentials of membership in a learned profession. The country was overrun by hosts of ignorant, immoral and dangerous swindlers, self-styled "doctors," who preyed upon the unfortunate afflicted; "isms" and so-called "schools" of medical practice multiplied, a mushroom crop of diploma-mills sprang up over the land; and as a natural result, the general standard of medical education and of requirements for graduation-except among the best class of medical colleges-fell lower and lower.

A reaction from this condition began at about the close of the first century of our National existence, at which time, 1876, North Carolina had a well-framed law, creating a State Board of Medical Examiners, passed in 1859. Kentucky had enacted a law in 1874, creating district examining Boards, but except in a few counties, this soon became a dead letter. In In 1875 Nevada, and in 1876 California and Texas legislated upon the subject. In 1877 Alabama established a State Board of Medical Examiners, and Illinois passed a Medical Practice Act, the execution of which was devolved upon a State Board of Health created by a separate enactment. Within the next two years only two other States took action-Kansas in 1879 (repealed in 1881) and New York in 1880. In 1881 nine States and one Territory enacted med-

<sup>&</sup>lt;sup>1</sup> The quotation is the definition of medicine according to Webster.

ical practice laws, viz.: Arizona, Arkansas, Colorado, and to more have terms of six months or over as Connecticut, Florida, Georgia, Nebraska, New Jersey, compared with the sessions of 1882-1883. Pennsylvania and Wisconsin. In 1882, Louisiana, Mississippi, New Hampshire, New Mexico, South increasing desire on the part of the profession to raise Carolina, West Virginia and Wyoming; in 1883, Del-the standard of attainments necessary to enter its aware, Michigan, Minnesota and Missouri; in 1884, Dakota and Virginia, and, since the last meeting of the Association, Indiana and Iowa have swelled the total to thirty-three States and Territories of the Union, which now exercise some degree of legislative control over the practice of medicine within their borders.

The general drift and tendency of this legislation are toward securing a recognized standard of professional attainments, evidence of which-with a few notable exceptions—is afforded by the presentation of a diploma of graduation from some legally-chartered institution in good standing; or, in the absence of this, an examination more or less strict, in the various fundamental branches of medical science. The exceptions are in the States of Alabama, Mississippi, North Carolina and Virginia, where the diploma is ignored, and the applicant for admission to practice must establish his possession of the necessary skill and ability so far as an examination may determine the same.

As an evidence of fitness and qualification the diploma must obviously vary ir, character with the character of the institution by which it is issued. Medical instruction in this country is almost entirely a matter of private enterprise, and until within a few years, numerous "colleges" with the briefest of lectureterms, conducted by the scantiest of faculties-in which one man often played many parts-innocent of clinical, surgical or anatomical material, and with the most charitable of examinations have graduated fees and armed them with the talismanic diploma.

Since 1765 a total of 224 medical educational institutions have been founded-not established-in this country, of which number 105 are now fortunately extinct. There are still remaining 120 medical schools of all kinds in the United States, and among them, it is only fair to say are some in which the course of instruction, the facilities and the competency of the teachers are as high as anywhere in the world. Within the last twenty years there has been, in fact, a marked and gratifying improvement in the standard of medical education. I quote a few illustrations of study and attendance upon three terms of lectures; recent improvement from my last report on "Medical and fifty-eight others which make provision for a Education in the United States and Canada." There similar extended course. The domain of medicine are now 93 out of the existing 120 colleges in the has so far widened its borders, especially within the United States, which exact an educational require- present generation, that the methods and periods of ment as a condition of matriculation; in the first re-study which sufficed thirty or forty years ago are no port there were only 45. Attendance on three or longer adequate. more lecture-courses before graduation is now required by 24 colleges, as against 12 heretofore; and sence of uniform legal requirements are also responprovision is made for a three or four years graded sible, almost exclusively, for the overcrowding of the course by 58 others. Hygiene is now taught in 91 profession. Did time suffice it would be interesting colleges, and medical jurisprudence in 97; as against to present this matter in detail, but I can now only 42 and 61, respectively, heretofore. The average glance at some of the results of my study of this duration of lecture-terms has increased from 23.5 phase. In 1880 there were, according to the Na-

While much of this progress is due to a general and ranks, and to the enforcement of certain requirements in States which have enacted laws regulating the practice of medicine, it will not be invidious to attribute a fair share to the adoption in 1880, by the Illinois Board of a schedule of minimum requirements, enforced since 1883, and which prescribes that a medical college, in order to be held in good standing for the admission of its graduates to practice in Illinois, shall exact such a general preliminary education of the intending student before his admission to the lecture-room, as will enable them to comprehend the instruction therein given; and shall issue its diploma conferring the degree of M.D., only upon the completion of such curriculum of study-as to the branches of medical science taught, the duration of the reading, and of lecture-terms, and the amount of practical instruction in hospital and at the bedsideas obtains in the average medical school.

Minnesota, Missouri and West Virginia exact substantially the same standard, and the work of the Minnesota Board especially has been wide-reaching and beneficial in this respect. The Iowa law, just enacted, confers similar powers, and the influence upon medical education of this group of States-Minnesota, Missouri, Iowa and Illinois-in establishing a uniform test of the "good standing" of a medical college, must be felt throughout the country. Fully one-third of the new graduates every year settle in the West, and colleges must, perforce, take cognizance of this fact.

While the schedule of minimum requirements does into the profession all who could pay the necessary not set up so high a standard as that aimed at by the American Medical College Association, it has the advantage of applying to all schools of medicine and of having been successfully enforced for three years. Furthermore, it is susceptible of modification, and the question is already being considered whether the time is ripe for a further advance. Until within a short time there had been, for sixty years, no marked departure from the orthodox three years of study and two courses of lectures as the requirements for graduation. But, as already shown, there are now twentyfour colleges which practically require four years of

A low standard of medical education, and the abweeks to a fraction over twenty-five weeks; 7 more tional census, 83,436 physicians in the United States, colleges have lecture-terms of five months or over, Since that date there have been added exclusive of the foreign increment-23,531 new graduates, of the country at large upon the Illinois rate, which I have pretty accurately determined to be 12.38 per thousand-is less than that of adult males engaged in all occupations; and the difference will probably fairly balance the loss by those who retire from pracother causes not connected with the question of fitness and professional success.

number of unnecessary recruits to the ranks of the profession every year.

The answer to the question, What becomes of them? is indicated by these figures concerning the profession in Illinois:

June 14, 1880. Total number in practice as shown by Official Register	
of that date.	5,979
Total number of new certificates issued to new men up to February 10, 1886.	
Total number to be accounted for	

Feb	ruary 10	, 1886.	
Total	number	in practice as shown by Official Register	
Total	number	died	344
6.6	6.6	left the State	1,061
4.4	6.6	abandoned practice	572
		-	-

That is to say, over seven per cent. of the entire number failed as physicians and sought other modes of obtaining a livelihood. It is noteworthy, by the usefulness of the medical profession. way, that non-graduates fall out in much larger proportion than the graduates, and that the graduates of donment of practice.

1880 there were certificates issued to 172 new comers; five years later only 84 of these remained—a 1882, 171, 1883, 209, and in 1884, 198 new comers; and in 1885 there remained of each year's group, 97. 116, 145, and 168, respectively. In one year the three years, 32 per cent.; in four years, 47 per cent.; and in five years over 51 per cent.

There are from 1500 to 2000 physicians in the familiar to every member of the Association.

On the other hand, and by way of contrast, I wish not including those of the last session, 1885- to add one further illustration from my personal ex-This makes a total of 106,947, and is an perience. During the past nine years my official annual increase of over five and one-half per cent. position has made me familiar with the professional while the annual increase of population is less than history and status of over 13,000 men, more or less two per cent. The annual death-rate—basing that directly connected with the practice of medicine in Illinois. I have followed up, with especial interest and care, the careers of 789 out of 1000 physicians who studied four years and attended three terms be-fore graduating. These are, with few exceptions, the successful and prominent members of the profession tice on account of old age, physical disability, and in the different communities in which they reside. They are well-equipped by general education, by an ample period of professional study, by didactic and It will, then, be within bounds to say that the ex- clinical instruction, and by hospital practice. They cess of the per centage of new graduates over the are successful, as a rule, because they have fitted per centage of increase of population represents the themselves to command success, and this Association can do few things more directly in the interest of the public and of the profession than to exert its further influence to increase their number while decreasing the number of the opposite class.

The foregoing considerations seem to me to lead

logically to the following conclusions:

1. That the best interests of the public welfare demand the highest attainable standard of educational qualifications, skill and ability, as well as of professional and personal honor, integrity and morality, among those engaged in the practice of medicine.

2. That it is the duty of the State to exercise the inherent plenary power and authority which it possesses for the protection and promotion of the public

welfare, to secure such standard.

3. That uniform State laws, exacting of every one aspiring to practice medicine proof of personal fitness and professional competency, would prove the most potent agency in improving the standard of medical education and in enhancing the dignity and

Specifically, I wish to suggest:

That the American Medical Association should three-course schools show the smallest per centage put itself upon record at this session as recommendof loss, either by removal from the State or by abaning the extension of the period of study to four years and of attendance upon lectures to three full terms, Here are some instructive figures for Chicago: In with ample hospital practice and clinical instruction, as the requirements for graduation in medicine:

That the Section on State Medicine be instructed loss of over one-half. In 1881 there were 183, in to frame a law for the regulation of the practice of medicine, which law, when endorsed by the Association, shall be the standard with which all existing legislation on this subject should be made to conloss was 15 per cent.; in two years. 30 per cent.; in form as speedily as practicable, and which shall be urged for adoption by those States where no such law now exists.

Whether such a law should establish a single State State of Illinois more than are necessary to supply Examining Board, which, independent of any inthe legitimate demands for professional services, and fluence from the teaching interest through a diploma who are not earning a comfortable livelihood from or otherwise, should admit to practice only upon aclegitimate professional exertion. And what is true tual examination; or whether the diploma of a colof Illinois is probably substantially true of every lege in good standing should be accepted as proof of State in the Union. I will not stop to dwell upon necessary qualifications, are questions for earnest the demoralizing effect of this condition—demoraliz- consideration. If the policy of those States which ing to the individual, to the profession, and to the are enforcing a standard of requirements whereby to Instances of this demoralization must be test the good standing of a college, be continued in good faith and with as much effect during the next

twenty years as during the past three, there would any comparative figures by which to measure this sional fitness, the graduates of all colleges would death-rate for several years previous. stand alike upon their individual merits. The efdesignation.

welfare, and through a wise regulation of the practice Jersey; in 1877, Illinois, Mississippi, Rhode Island, of medicine elevate the standard of medical educa-Tennessee; in 1878, Connecticut, Kentucky, North tion, which is the foundation of the practice. And Carolina; in 1879, Delaware, Iowa; South Carolina; it seems to me especially fitting that the American in 1880, New York, West Virginia; in 1881, Arkan-Medical Association should again make its influence sas, Indiana, New Hampshire; in 1883, Missouri; in felt in this direction. Its earliest labors, and among 1885, Dakota, Kansas, Maine, Pennsylvania; and in its most important and successful, were devoted to 1886, Ohio. securing a "uniform and elevated standard of requirements for the degree of Doctor of Medicine." existence largely to the influence of the American Its further efforts at this time should be attended Medical Association, which has for years actively with even greater success.

## ADVANCES AND DISCOVERIES IN PREVENTIVE MEDICINE.

improvement in the branches thus far considerednow clearly recognized as belonging to the do-main of State Medicine—the past year has witnessed equally satisfactory practical advances in the introduced during the present session, but there is more familiar province of Preventive Medicine. The little hope of either of them receiving favorable number of sanitary organizations, both legal and consideration. voluntary, has increased; the contributions to sanitary literature have been numerous and valuable; ilitation of the National Board or by the creation of and professional and public interest and effort have a new organization, it is the imperative duty of Conbeen enlisted as never before in attempts to remove gress to complete the health defenses of the country. or abate the preventable causes of disease, and to Municipalities have their legitimate sphere within discover and perfect safeguards against the great pestilences. To a great extent this has been stimulated next beyond which the authority and resources of by the prevalence of Asiatic cholera in some parts of the State are demanded. But neither municipalities Southern and Western Europe, and the consequent nor States can protect themselves against foreign dread of its extension to our shores. Fortunately, the apprehensions entertained at the date of the last meeting of the Association have not been realized, and the country has been practically free from any general or noteworthy epidemic, notwithstanding the prevalence of smallpox in some parts of Canada.

State and Municipal Boards of Health have generally done effective work in their respective spheres. In some States a general sanitary survey has been of the present year on our "Coast Defences against undertaken, and in many cities, towns and villages Asiatic Cholera," and elsewhere. house-to-house inspections have been pushed, and a public and private nature, have been largely remtistics is in such an imperfect and unsatisfactory condition in this country that it is not possible to give with which it had been associated since 1878.

be little to choose between the two modes. But be- gain for the whole country; but the mortality returns fore an independent Examining Board, intent only of the large cities generally show a reduction in the upon ascertaining the applicant's moral and profes- death-rate of 1885 as compared with the average

Four more State Boards of Health were estabfect would be to encourage the tendency to make lished in 1885-86, the list now comprising the folthe science of medicine as exact as it is complex, lowing thirty-one organizations, the dates of the and to obliterate much of the element of empiricism establishment of which are prefixed: In 1869, which still justifies the use of the term "art" in its Massachusetts; in 1870, California; in 1872, Michigan, Minnesota; in 1873, Alabama, Wisconsin; in By either mode the State may promote the public 1874, Maryland; in 1876, Colorado, Louisiana, New

> These Boards, it is proper to remark, owe their promoted their organization.

While States and municipalities are thus generally exerting themselves for an efficient protection of the public health, our National health service remains in a very unsatisfactory condition. Notwithstanding the While there has been this marked and gratifying efforts of the profession generally and of many health organizations to secure action by Congress for the remedy of this condition of affairs, nothing definite has yet been done. Three different bills have been

> One thing remains clear: Whether by the rehabwhich they alone can act and are responsible, and pestilences without the assistance of the National authority, nor can they properly guard themselves against inter-State infection or contagion without the cooperation of the same authority. I have already dealt with this subject fully in an address before the National Conference of State Boards of Health in 1884, on the "Prevention of the Introduction of Asiatic Cholera," in a report made in the early part

Among the voluntary organizations the work of the nuisances and defects thus disclosed, both of the American Public Health Association during the year has been of more than usual practical value. edied. As was frequently remarked during the past The Lomb Prize Essays, and especially the "Report summer and fall, an amount of general and local on Disinfectants and Disinfection," are substantial "cleaning up"—which is the essence of sanitation— additions to sanitary knowledge. The Sanitary Counwas accomplished, which could not fail to have an cil of the Mississippi Valley has not been called upon appreciative effect upon the public health. Unfor for action, but its organization is preserved ready for tunately, the subject of the registration of vital sta- an emergency. Nothing definite was accomplished

ing of the Association.

vation and sanitary work at ports of arrival.

nical or professional, and at an early stage a Technitice as applied to maritime quarantine. cal Commission was formed, which finally agreed It must be repeated, however, that the cooperation upon substantially the same measures that advanced of the National Government with State and local sanitarians in this country consider necessary for the authorities, as well as its independent action in mat-limitation and suppression of cholera, yellow fever, ters beyond the reach of States and municipalities, and other communicable diseases which, under bad are indispensable to the proper protection of the sanitary conditions of vessels and places, may become public health. The duty of Congress in this conepidemic. The exceptions to such agreement were nection is even more pressing than the responsithe English delegates, composed of gentlemen whose bility of providing defense against an armed enemy. experience with cholera had been mainly limited to This latter is a more or less remote contingency, but India, and who, in consequence, deny the communithe assaults of foreign postilence are constant and cability of the disease through human intercourse, continuous. deny the infectiousness of cholera dejecta, and pronounce disinfection a farce and unscientific.

can be secured at ports of arrival.

at the last National Conference of State Boards of spection of the quarantine maintained upon the Health, which was held during the Washington meet- Atlantic and Gulf coasts from the St. Lawrence to the Rio Grande. The results of this inspection have Abroad, a second series of sessions of the German been published by the Illinois State Board of Health, Cholera Conference was held in Berlin, May 5-7, and as the report is accessible to the members I will 1885, at which the subjects of the etiology and prevention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on the members I will confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on this occasion to the following convention of cholera were discussed by Koch, Pettenching Confine myself on the confi kofer, Virchow, Hirsch, and others, but without completing this inspection, that Asiatic cholera, as eliciting much which was new, or settling any of the well as small-pox and yellow fever, may be effectually mooted questions. Prof. Koch summarized the chief excluded from the United States by an intelligent use measures to be taken against the disease, and which, of the agencies still at our command. This is not a so far as they go, do not differ from those adopted by matter of speculation or theory. A great advance good sanitary authority in this country. They dealt, has been made in practical sanitary science since however, exclusively with the local safeguards of 1878—notably in the administration of the maritime sanitation, disinfection, isolation, supervision, etc., quarantines generally, and especially in the improved and ignored measures of exclusion of the disease by safeguards at the mouths of the St. Lawrence and the notification, maritime sanitation, supervision of ports Mississippi. A quarantine of exclusion of the three of embarkation, and quarantines of inspection, obser- principal epidemic diseases is now a matter of certainty, depending upon prompt notification of threat-Following the adjournment of the Berlin Conference danger; vigilant supervision over commercial euce, an International Sanitary Conference was held intercourse with infected localities; inspection of all at Rome under the auspices of the Italian Govern-immigrants and the enforcement of their vaccinal ment. Although its paramount object was the disprotection; sanitation and purification of infected cussion of questions relating to the prevention of vessels and cargoes; isolation of those sick with these cholera, the subject of yellow fever was also consid- diseases; the surveillance of suspects during the ered in the same relation, through the efforts of the periods of incubation; and the employment of other American delegate, Dr. George M. Sternberg. The well-defined preventive and precautionary measures delegates were of two classes, diplomatic and tech-

Thus far we have been providentially spared an invasion of the Asiatic plague which is now filling The Conference adjourned to meet again in the Great Britain and Europe with anxiety, and the real fall, but this intention was not carried out. As I extent and prevalence of which we do not know. have heretofore observed, the practical benefit to The State Department has, within a few days, been requested to appoint sanitary inspectors at the United States consulates at Genoa, Naples, Marseilles and Venice, with instructions—in the language of the of views, the dissemination of knowledge, and the dispatch—"to give prompt information of the appear-formulation of such views and knowledge. So far as ance of cholera in any of the consular districts named, this country is concerned, they have not changed the and to report the departure of emigrants and merstatus in any respect. We must continue to rely, chandise for the United States from infected disfor the exclusion of cholera and other Old-World tricts." But it is already known that the disease exists, pestilences, upon such precautionary measures as and has for morths, in several provinces of Italy, including Venetia-cases having been reported in The International Congress of Hygiene, which has Venice even in January last; it is known that the been held successively at Brussels, Paris, Turin, entire Mediterranean littoral is practically an "in-Geneva, and the Hague every alternate year for the fected district," and that the northward march of past ten years, and which should have been held this year at Vienna, has been postponed until 1887, for some reason not yet announced.

the pestilence is causing alarm in Austria, Germany, Northern Europe generally, and in Great Britain.

The appointment of sanitary inspectors at one French With the object of determining to what extent and three Italian ports hardly seems adequate to the such precautionary measures may be secured, espe-occasion. At no time since cholera was announced cially against Asiatic cholera, I have made an in- at Toulon in 1883 has this continent been in as serious danger of an invasion of the disease as it is now. unmistakably increasing in frequency and in its influ-And not alone does cholera threaten, but small pox ence upon the death-rate. is epidemic in many districts with which we are in direct and frequent communication.1

my subject without a brief reference to the obvious examination, but for the purposes of the sanitarian necessity of National control of immigration. Sani- must be submitted to the further test of biologic extary science and public hygiene touch both the indi-periment. It has also certainly been of service in vidual and the National life at many points. It is a raising the art of disinfection to the level of an exact question which is daily and hourly becoming more science, and the labors of Sternberg, Smart, Salmon urgent—as the columns of every issue of every news- and others in the bacteriological field in the United paper show—how much longer it will be safe or States, are not unworthy of comparison with the work prudent to continue the unrestricted influx of the in Europe. vicious, the insane, the pauper and the infected immigrant into our midst. I will not attempt to dis- the sweeping claims of the bacteriologists, and the cuss so momentous a question at the present time assertion, for example, that the typhoid bacillus, after and amid the multiplicity of other topics. I have twenty years of experiment, has at last been demonalready on more than one occasion expressed my strated to be the true typhoid germ, will not stand views concerning it. Neither the sanitarian nor the the criticism of Prof. von Pettenkofer, who, in a

science included" in the Section. While the workers tions which influence its growth, development and have been active and their labors faithful in many results, must be taken into the account, and that the directions, it is to be feared that the discoveries in mere fact of setting up a certain train of symptoms preventive medicine are too intangible or too incom- in a lower animal analogous to those observed in the plete to warrant much of positive statement. There human subject is by no means conclusive proof that are new theories and claimed discoveries concerning the specific fungus transmitted from the one to the malaria cholera, yellow fever, hydrophobia, tubercu- other is the sole cause of the disease in the higher losis and other diseases. But whether Klebs and organism. In this address, which, like all of his con-Crudeli or Marchiafava or Celli have found the mala-tributions to scientific hygiene, is replete with food ria germ; whether Koch and his followers or Klein for thought, Pettenkofer asks what the study of bacand his confrères are correct as to the causative con-teriology has done in advancing practical sanitary nection of the comma bacillus with Asiatic cholera; measures, and pertinently cites Lister's antiseptic whether Domingo Freire and Carmona are to share the obloquy of Ferran or the honors of Pasteur; of practical results accomplished without demonstration whether bacteria themselves, or only their products, strating the existence of a special form of bacteria or whether neither one nor the other, but ptomaines or the actual morbific agent. He might still more and leucomaines produced by normal vital action, strikingly have referred to Jenner's immortal discovery. are the morbific agents of disease against which the sanitarian must direct his energies—these and similar call the attention of the members to the additional questions are yet sub judice.

and diphtheria are still equally obscure, although moved over bovine, in cases demanding promptness some light seems to be thrown upon the origin of and certainty of action. I think this practical point certain outbreaks of the latter disease by the obser-cannot be too strongly insisted upon, and it may be vations of Dr. Cresswell, who, in a paper recently well to repeat, as a fitting conclusion of this address, read before the London Epidemiological Society, my remarks on this subject in the paper on "The thinks he has traced six outbreaks of diphtheria, for Relations of Small Pox and Vaccination" in the which there was no other obvious explanation, to Fifth Annual Report of the Board (p. 502). Treatpersons suffering from chronic tonsillar inflammation ing of the promptness of action in the face of exfollowing attacks of diphtheria, and concerning whom posure it is there shown that humanized virus may be he asks: "Do the violent reactions of the tonsils of depended on much more certainly than bovine to act these persons to weather changes involve likelihood promptly. Usually on the second or third, very of rendering them diphtheritically infectious?" In seldom so late as the fourth day after the insertion of other words. May diphtheria become chronic and good humanized virus, the papular stage of vaccinaliable to periods of infective recrudescence? The tion will begin, and be followed, with almost unvary question acquires additional importance for the meding regularity, by complete development of the vesicle ical officer of health from the fact that the disease is

On the other hand, bacteriology may fairly claim to have advanced the science of water analysis, which I cannot close the consideration of this branch of no longer depends upon chemical and microscopic

A reaction, however, seems to be setting in against statesman can afford to longer ignore its consideration. recent address on the relationship between bacteri-The By-Law ealls for a report on the "advances ology and epidemiology, points out that the entire and discoveries of the past year in the branches of environment of a micro-organism and all the condi-

Concerning this subject of vaccination I beg to proof cited in recent reports of the Illinois Board, of The etiology of such common diseases as diarrhead the superiority of humanized virus, not too far reon the eighth day, and by the subsequent appearance of the "index of safety"—the specific inflammation of the skin, or stage of areola. Bovine virus, on the contrary, is subject to all degrees of delay, even to periods of weeks. During the epidemic of 1881– 83 this defect of bovine virus was more than once

It is withy of passing note that cholera has invaded a new conti-nent within the past few months. Its introduction into, Australia, where that been hitherto unknown, furnishes a fresh proof, if any were neces-sary, of the transportability of the contagon, of the necessity of super-vision over maritime travel and commerce, and of the importance of being prepared to meet and properly deal with an infected vessed upon its arrival.

to gain a foothold.

to the beginning of the febrile stage of small-pox.

vaccinated until after exposure, 305 recovered and inhabitants of the Grand Duchy of Hesse." 18 died, being a less mortality rate than among the 600 cases, which occurred among those who had been the judgment expressed in the eleventh of the propovaccinated before exposure only. In some of these sitions, concluding the paper above referred to: cases vaccination was not attempted until shortly before the beginning of the eruptive stage. A reference humanized virus are still sub judice as to the most to the Notes appended to the Tabular Statement of important point, namely their comparative protective 1,100 cases, pages (296-327 inclusive), will show many powers. Humanized virus has been tested for more instances where vaccination after exposure was suctain eighty years; bovine for about sixteen. The cessfully resorted to after the expiration of the period former descended in an unbroken line of vaccinations of valuable time or where such attempt finally proved ence must be given to the humanized." wholly unsuccessful. With the exception of one group of six cases—a family vaccinated by the father, a layman-all the vaccinations performed with humanized virus, after exposure, were successful, and the patients recovered, with mild attacks of short duration. But of such vaccinations with bovine virus, over 40 per cent, were failures-that is, in the sense of manifesting activity before the variolous disease

The general tenor of these views is also supported by the figures given in the January number of the American Journal of the Medical Sciences, quoting from the "Arbeiten aus dem Kaiserlichen Gesundheitsamte:" "The increase of unsuccessful vaccina-

followed by serious consequences. Not alone were tions in the German Empire was due to the vaccinalives lost among the exposed members of isolated tions in the Grand Duchy of Hesse, where, owing to families, where vaccination was resorted to early the introduction of animal lymph, the number of sucenough to have averted an attack had the virus acted cessful vaccinations decreased from 97.31 per cent., promptly, but epidemic outbreaks followed under in 1881, to 63.44 per cent., in 1882." And the similar circumstances—that is, in localities where, German Commission on Vaccination report—"For upon the discovery of the first case, vaccination of vaccination with humanized lymph may be mentioned all unprotected or exposed was at once resorted to, the certainty of its action, the symplicity of its mawith boyine virus, but which either proved so tardy chinery, the inexpensive manipulation of the lymph. in its action, or so totally inert, as to allow the disease Against the use of animal lymph may be taken the less certainty of its results, a more complicated ma-"The loss of a day," says Seaton in his Hand-book chinery and the greater cost of production of lymph." of Vaccination, "may be the loss of a life." Hence Nevertheless the Commission conclude that animal "is the necessity for using virus which will act promptly, capable of supplying the place of humanized lymph." and not remain latent three, five or any other number Commenting upon this, Dr. Buchanan, the medical of days. Recent experience corroborates observa- officer of the Local Government Board, in his last tions made during the period from 1866 to 1873, while report (1884) says: "In England, these are identical Sanitary Superintendent of the city of Chicago, to- when the operation is done directly from arm to arm, wit: That it is never too late to vaccinate after ex- or calf to arm; thus, two operators at the Animal posure, short of the actual appearance of the variolous Vaccine Establishment, in London, produced an averuption. If the vaccination be performed within erage of 988 vesicles for every 1000 insertions of calf three or four days after exposure, and the areolar lymph made on infants. Now the employment of stage, the index of safety, be reached in the normal stored lymph reduces this average by some 20 or 30 time, an attack of small-pox will almost invariably be per cent., whether humanized or animal lymph be averted. With every additional day's delay the pro- used. Direct vaccination from calf to arm is only tective power will be weakened; but, contrary to the possible in large centres of population. In sparsely opinion laid down in the text books, experience inhabited districts the use of stored lymph becomes proves that this protective power is not entirely ex- a practical necessity, unless arm-to-arm vaccination hausted until the vaccination is deferred at least up be resorted to; hence, there is much probability that the decision of the German Commission will tend to Of 323 cases of small-pox, tabulated in the pro- reduce the condition of the German people, as to ceding pages, in which the patients had never been protection against small-pox, to the condition of the

I see no reason—but the contrary—for modifying

"That the relative advantages of bovine and of ascribed by Marson, Seaton, and others, as the limit from the original operations of Jenner, still produces beyond which, "whatever the local success of the vac-cination, no constitutional effects will be imparted." the same typical results, the same regular sequence of phenomena, as those obtained by Jenner himself; In these Notes will also be found the details of cases the latter produces almost as many varying results as where the attempt to vaccinate with bovine virus was there are propagators. . . . In cases of emergency, only successful after one or more repetitions, with loss where promptness of action is important, the prefer-

## ORIGINAL ARTICLES.

SYPHILIS IN ITS RELATIONS TO DENTAL AND ORAL SURGERY.

BY G. FRANK LYDSTON, M.D.,

began—and of this 40 per cent. of failures there was 30 per cent. of fatal results.

The general tenor of these views is also supported

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The time is long since past when an apology was necessary for bringing a subject of general surgery

<sup>&</sup>lt;sup>1</sup> Read in the Section of Dental and Oral Surgery, on May 4, at the Thirty-Seventh Annual Meeting of the American Medical Association.

tal profession that it is now recognizing this fact.

the subject is at once appreciated. The oral symp-for suspicion of infection by dental instruments. It toms of the disease, in well-managed cases, are now-adays the most important of all the local manifesta-tions which characterize its active period. The reasons for this are at once apparent. The vast majority of well-treated cases will escape skin lesions after using, in addition to the ordinary measures of altogether, or at most will have nothing more severe cleanliness. Ordinary solutions of antiseptics are than the roseola, which is of the most trifling import- too weak to be efficacious. Lodine and bichloride of ance, but very few indeed will be found to go through mercury corrode the instruments, and the flame of a course of syphilis without being afflicted with oral the alcohol lamp destroys their temper, hence pure symptoms of greater or less severity. Such, at least, carbolic acid is the most efficient and available antihas been my experience in quite an extensive field septic. If prepared in the manner suggested, infecof observation. The argument may be advanced tion from instruments is impossible. A safe rule in that this statement applies only to the better class of surgery is to avoid the use of an instrument which patients; but it is just this class whom the dentist we would hesitate to put in our own mouths, or thrust is most frequently called upon to treat. When the in our own flesh, if necessary. facts seem to controvert the proposition which has been advanced, they seem to be the result of causes logical factor in dental and oral lesions, it is proper independent of the intrinsic severity of syphilis. An- to consider the question of hereditary syphilis. This other consideration that tends to enhance the im- is a subject of much more importance to the dentist portance of the oral syphilides, is the fact that it is than is generally supposed. It has long been well through these lesions that innocent persons are most understood that syphilis is capable of producing apt to become infected.

syphilis, the function of the dentist is acknowledged chiefly through the efforts of the renowned syphilby progressive specialists, to be of paramount im- ographer, Mr. Jonathan Hutchinson, of London. It portance. The patient who would go through a may seem presumptious to criticise anything emanacourse of syphilis and of treatment therefor, with a ting from so eminent an authority, but it is my humminimum of suffering, will place himself in the hands ble opinion that Mr. Hutchinson's description of the of his dentist, as preparatory to undergoing strictly medicinal treatment. The patient with tartar about mislead us. Observe his original description: "The the teeth, carious cavities, or sharp or rough surfaces permanent teeth are irregular and defective; they upon the teeth, jutting against the buccal mucous are small, vertically notched, rounded at the corners membrane or tongue, is almost sure to suffer from or pegged, and are often marked with seams and luxuriant crops of mucous patches, or destructive ridges or lines, of a dirty brownish color. These ulcerations. In addition to this inconvenience, we characters are especially marked in the central inwill find that under the faulty conditions mentioned, eisors, which are the test teeth." He further says: reflex excitation of the salivary and mucous glands "Next in value to the malformation of the teeth, are is constant, and when, under such circumstances the the state of the patient's skin, the formation of his stimulating effect of mercury is superadded, ptyal-nose and the contour of his forehead; the skin is alism or even stomatitis, is quite likely to occur. With most always thick, pasty and opaque. It also shows

lessness in the matter of cleansing all instruments it is remarkably sunken and expanded. The fore-

before a convention of dental and oral surgeons, used in dental practice, whether the patient be known Dental and oral surgery has, of late years, come to to be syphilitic or not. Syphilis is so widely dissembe recognized as a specialty of general surgery, and inated, even among respectable people, that it is unmost justly so. The progressive dentist of to day is safe to run any risk in the matter. The oral lesions earnestly striving to attain all of the qualifications of syphilis are very actively contagious during the necessary to the true specialist, who has been so early months of the disease, and it has been supposed aptly described as a practitioner "who knows something of everything, and everything of something."

There is perhaps no specialty that involves more of A lesion so insignificant as to escape attention, may the principles of general medicine than that of den-tal surgery. It is greatly to the credit of the dental cretion becomes mingled with the saliva and may adhere to instruments for an indefinite time. Just There is perhaps no general disease which figures how long the contagium may retain its vitality is unas a more important factor in dental and oral prac- known, but it is probably a prolonged period. I am tice, than syphilis. The prevalence of this disease, happy to say that very few, if any, accidents have been as revealed to the general surgeons and specialists of laid at the door of the dentist, but that fact should our large cities, is somewhat appalling, and when we not render him one whit less cautious. I have mystop to consider its insidiousness, the importance of self seen one case in which there were strong grounds

marked disturbances of the nutrition and develop-In the matter of prophylaxis of oral lesions in ment of the teeth. This fact has been developed the teeth and gums in bad condition, the patient is pits and scars, the relies of former eruptions, and at usually so intolerant of inercury that he cannot take a sufficient quantity to benefit his syphilis.

The bridge of the nose In passing, it may be well to eaution against care- is almost always low, and broader than usual; often

head is usually large and protuberant in the region treatment. The time is coming when every dentist of the frontal eminences; often there is a well-marked may not only recommend, but will be competent to depression just above the eyebrows. The hair is carry out, such a course in detail. usually dry and thin, and now and then the nails are broken and splitting into layers."

each of the gentlemen present have had under ob- of alleged scrofulous lesions as remote manifestations servation, that tallied with the above description. of syphilitic taint, is rapidly gaining ground. This, observe such a tout ensemble of symptoms, yet it has Cooper, whose favorite remedy for scrofula consisted been my lot to observe and treat many unequivocal- of the bichloride of mercury, in Huxham's tincture of ly syphilitic children. It has been the custom to cinchona bark. look for Hutchinson's test teeth; seldom indeed are they found; ergo, the patient is not syphilitic.

Hutchinson, seldom arrive at the period of dentition, ing childhood, save perhaps malformed or crumbling for the vast majority of the victims of severe hereditary syphilis fail to survive the third month after appear later in life. Ziessl has collected over one birth. It is the child who suffers from attenuated the hundred of such cases, and has reported a number hereditary syphilis who survives, and it is with him observed by himself. These cases strongly resemble that the dentist has to deal; hence the extreme cases tertiary acquired syphilis, and appear, as a rule, described by Hutchinson are not fair criteria of the about the period of adolescence. Osseous and effects of syphilis upon the teeth, as seen in dental nervous lesions of a severe character usually predomand oral practice, although such cases may be met inate, the osseous lesions having a special predilec-

When I use the term attenuated syphilis, I mean of caries of the skull of this character. hereditary infection not severe enough to cause typiful auxiliary to the efforts of the dentist.

dental surgeon. These may be formulated as fol- ity of the patient. lows: 1st. The great frequency of syphilis, even in should recommend a suitable course of constitutional of the patient, and they were disproportionally en-

The co-relation of so-called struma and hereditary syphilis has of late years come to be suspected, and It would be interesting to know how many cases the tendency in certain quarters to regard many cases Exceptionally, indeed, has it been my privilege to indeed, was tacitly admitted years ago by Astley

In connection with the subject of hereditary syphilis, it is well to remember that there is such a Now, as a matter of fact, the children who are so thing as late hereditary syphilis, in which, while the tion for the nasal and palatal bones. I recall a case

It may be remarked in passing that many cases of cal syphilitic lesions, but severe enough to cause mal- ozena, or fetid nasal catarrh, with resulting necrosis nutrition. Like all conditions of perverted nutrition or caries of bone or cartilage, are attributed to simoccurring during the period of dentition, that pro-duced by hereditary syphilis gives rise to defective mainly upon the absence of specific history or typi-and irregular development, faulty texture, and early cal lesions. Most of the cases are the result of acdecay of the teeth. The syphilitic cachexia is pre-eminently liable to produce such results, but unfor-late manifestations of hereditary taint. As far as tunately there is nothing characteristic in the resulting my personal opinion is concerned, I have been unaphysical appearances, in the greater proportion of ble to convince myself that simple catarrh is ever cases. Very frequently (perhaps generally) if the the cause of nasal or palatal necrosis or caries. I constitutional element be recognized at all, it is recall two cases in which failure to accept this view dubbed "scrofula" or "rickets!" Old Proteus on the part of the family physician, resulted in serious masquerading under a respectable name; but none and irreparable disfigurement. To apply this to denthe less susceptible to the eloquent persuasion of tal and oral practice, it is only necessary to rememour reliable friends, mercury and iodine. I venture ber that necrosis, or caries of the palate or jaws, to say that in quite a proportion of troublesome cases, accompanied by or dependent upon, alleged fetid of dental caries and irregularities in children, consti- nasal catarrh or ozæna, can, with almost absolute tutional treatment of this kind will prove a very use-safety, be pronounced syphilitic. It must be borne in mind, however, that such lesions may represent In the consideration of this important question, the errors or misfortunes of a past generation, and there are several facts to be borne in mind by the may therefore cast no discredit upon the respectabil-

The primary lesion of acquired syphilis very rarely refined society. 2d. The recklessness as to the con- occurs within the mouth; chancre of the lip being sequences of matrimony exhibited by the average more frequent. The dental surgeon will therefore syphilitic patient. 3d. The great percentage of dan-seldom meet with it. 1 have already alluded to a ger of hereditary transmission of even remote syphicase in which infection by dental instruments was litic taint. 4th. The large number of tainted chil- the presumable origin of the disease. Unfortunately, dren that he must necessarily be called upon to treat I did not have an opportunity to observe the case That the must necessarily be called upon to treat I did not have an opportunity to observe the case as a consequence of the foregoing propositions. 5th, from its inception. At the time I first examined the That Hutchinson's test teeth and facies syphilitica are by no means a sine qua non in hereditary syphilis. It may be readily observed that the duty of the dental surgeon is not completed with the local treatment of such cases as those under consideration, but he and only glandular changes to attract the attention of the dental example of the surgeous distriction of the surgeous dis posed to venereal contagion.

I recall another case of interest in which the primary lesion appeared upon the tip of the tongue, the oral lesions of syphilis. It represents a papule There was very little induration about the sore, which upon a mucous surface, and also represents the foundappeared as a shallow ulcer the size of a split pea, ation of most of the ulcerative lesions of the disease, with a grayish base covered with an exudate very i. e., a localized proliferation of cells. It is a true like a diphtheritic membrane. The glands under hyperplasia of tissue, and this is an important elethe jaw enlarged, and the case ran the ordinary ment in the diagnosis. The patch is elevated, of a course of syphilis. The source of infection was grayish or yellowish color, and varies in size from a traced, and I found mucous patches in the mouth of scarcely perceptible point to a patch or collection of the woman from whom the disease was contracted, patches the size of a silver quarter, rarely larger. She herself gave a clear history of having contracted. There is no inflammatory area about it as a rule, but her syphilis from her husband. In this case, a diaging if irritated, the ordinary characters of inflamed munosis could have been made in no other way than by cous membrane will be presented. tracing the source of infection, and by observation of the subsequent course of the case, inasmuch as sometimes seen about the borders of the tongue, that the primary lesion was decidedly atypical.

riod of acquired syphilis are of the most vital import- rare form known as syphilitic psoriasis of the tongue. ance to the dental surgeon, by virtue of 1st, their It appears in the form of a furrow or cleft in the contagiousness; 2d, their liability to be mistaken for border of the organ upon one or both sides. This innocuous lesions; 3d, the prolonged period during furrow has an appearance resembling a puckering in which they are apt to develop at any time, and often or involution of the mucous membrane. The borders without the patient's knowledge; 4th, the necessity of the lesion are rounded, and covered with a fibrous for nearly all syphilities to consult their dentist sooner layer of cloudy epithelium, which looks very much or later, during the active period of syphilis. The like a thin film of coagulated albumen. later, or so-ealled tertiary lesions, are so destructive that they usually announce their presence at once; patch, and consists of a similar but more extensive

The lesions of the mouth occurring during the course of constitutional syphilis, may be briefly class- mucous patches to a circinate arrangement very like ified as: 1st. Excoriations or erosions, and rhagades, ordinary ringworm of the skin in form. This is due or fissures, occurring with or without more or less to a coalescence of circular patches, and is especially generalized inflammation of mucous membrane. 2d. marked upon the roof of the mouth, involving both Mucous patches and tubercles. 3d. Early ulcerations, superficial or deep. 4th. Late ulcerations, tion is seen in the mouth, nothing more is wanted to superficial or deep. 5th. Early and late bone and complete the diagnosis of syphilis, although corrobperiosteal lesions.

Excoriations or erosions and fissures are the most dangerous to the safety of healthy persons, from the the diagnosis of syphilis will serve in all cases, save fact that they are often precisely identical in their in late syphilis, where we may be compelled to dephysical characters with similar lesions from sim- pend upon the history and the appearance of the ple causes. Their secretion, however, is extreme- lesions alone. ly contagious, and the act of kissing may be followed by disastrous results. lesions are usually quite irritable, occurring, as without corresponding pain in deglutition. Should they generally do, in smokers, and they consequently the patient have a bad cold at the time, this sign usually announce their presence most emphatically, ceases to be of great value. Second, Alopecia or These lesions may appear at any time during the falling of the hair, in the absence of parasitic disease, course of syphilis, but are most often seen during the Third, Coppery spots or cicatrices; the remnants of first year. They are due to the co-existence of local faded skin lesions. Fourth, The presence of scabby of diagnosis.

larged as compared with the rest of the glandular. These erosions and fissures are distinguished in system. It was claimed by the patient that the sore most cases by the generally reddened and tender upon the gums appeared about three weeks after hav- state of the mucous membrane. Unlike other syphiing had her teeth cleaned and put in order. The litic lesions, they are sometimes extremely painful, "kernels," as she termed them, beneath the jaw, ap-the suffering being greatly disproportionate to the peared about a week or ten days later. There were actual lesion present. A diagnosis of syphilis is not no evidences of venereal infection, and as far as warranted in these lesions unless confirmed by more physical appearances went she had never been expositive indications than those afforded by the lesions themselves.

The typical mucous patch is the most frequent of

There is a peculiar form of mucous patch which is merits special description. It is the most obstinate The oral symptoms of the secondary or active pe- of the lesions of the tongue, excepting, perhaps, the

The mucous tubercle is an exaggerated mucous and more important still, they are probably rarely aggregation of cells. Either the patch or the tubercle may go on to ulceration.

There is a peculiar tendency in some cases of orative evidence should always be sought for.

The special points which are to be sought for in

These evidences are, First, A diffuse passive con-Fortunately, these gestion or hyperamia of the fauces and pharynx, irritation with constitutional depravity, and as both spots or pimples on the scalp. Fifth, Enlargement of these conditions occur from simple causes, it is of the lymphatic glands, those of the neck being obvious that great caution is necessary in the matter especially accessible. Enlargement of the sub-occipital glands is pathognomonic. Sixth, A possible history of bone pains and aches, worse at night; this of constitutional taint in the form of glandular ennodes.

It will be observed that most of these signs can be sought for and often found by the dentist, without examination of any other regions than the oral cavity, pharynx, head and neck. Indeed, a quite thorough examination may often be made, without exciting suspicion, if such a course be politic. obvious reasons, I do not include some diagnostic points for which the general surgeon would seek. An innocent and to all appearances quite casual lesions are slight erosions and exudations, and, as a search for evidences of such diseases as scrofula, rheumatism and catarrh may develop some startling and valuable results in dental and oral practice. When the patient is sufficiently cosmopolitan or candid, the history of infection will clear up any possible obscurity. A useful point in the diagnosis is that the patient is usually distressingly healthy aside from the local manifestations of disease, and even these may be treated with great indifference.

allusion has already been made, that merits special attention, although it must be confessed it is a lesion that is rarely seen. I refer to syphilitic lingual "psoriasis." It closely resembles simple psoriasis of the course of the disease, when nothing but the history of the case remains to assist in the diagnosis. consists of a thin whitish pellicle, due to thickened supposed mucous patches and syphilitic ulcerations epithelium, the mucous membrane beneath having a peculiar scalded appearance. Quite often, the tongue therefore, I find that the mouth not only does not presents large irregular patches of scalded looking mucous membrane. The borders of the tongue are most apt to be affected. That these lesions are dan-substitute iron and tonics. The horribly fetid odor gerous, is shown by a case reported by Fournier, in of the breath, due to decomposing fat, and the disease. It is the most obstinate of lesions, and will syphilis per se rarely fail to improve under mercury, measures.

important, in view of the fact that it may be mistaken has been given most freely. for syphilis, and vice versa. These erosions or ulcerations are superficial in character, usually multiple, and appear in successive crops. They are very diffiis the direct antithesis of that required for syphilis. indicated.

brane had been snipped out with scissors. They -removal of the cause.

sign being more important in late syphilis. Seventh, gorgement, excepting in some strumous cases, in The presence of circumscribed periosteal swellings or whom a diagnosis may be entirely dependent upon the crucial test of treatment. Under mercury and iodine, these simple cases will get worse. A complete change of air and scene may be necessary for their cure. It is not well to be hasty in the matter of diagnosis, but it is indeed a safe rule that, to the surgeon, no one should be above suspicion.

Some of the very late lesions of the mouth in syphilitic subjects are very difficult of diagnosis, the history alone being all that we can depend upon. These rule, are not contagious. Oftentimes, perhaps, they are not really syphilitic, and depend upon, first, exhaustion and malnutrition produced by the previous general infection; second, mercury in too free doses. Most often, both of these causes are contributing factors. It should be remembered that because a patient has once had syphilis is no reason that he should not thereafter have simple and respectable lesions of the oral cavity. The excessive use of There is a peculiar lesion of the tongue to which mercury, or even its moderate use, in special cases of idiosyncrasy, may produce lesions of the greatest importance to the oral surgeon. Much uncalled for abuse has been heaped upon this valuable drug, but after all, it is sometimes responsible for morbid tongue, and is apt to make its appearance late in the changes, especially in the mouth. It is debilitating in large doses, and as eliminated by the salivary It glands, it is apt to be irritating. I see many cases of which I am inclined to attribute to mercury. When, improve, but really grows worse, under mercury, I infer that the trouble is really due to the drug, and which a patient with this lesion infected a healthy sponginess and tenderness of the gums, will indicate woman by kissing, five years after he contracted the the probable cause in these cases, for lesions due to persist after all other evidences of syphilis have when carried to its full physiological effects. It is yielded to treatment. I have a case at the present certainly a suggestive fact that mercury is capable of time that is absolutely intractable to therapeutic preventing skin lesions in a large proportion of cases of syphilis; but does not seem to completely prevent There is a form of ulceration of the mucous mem- oral manifestations in the majority of cases. While brane which occurs in debilitated states of the sys- not yet prepared to formulate a rule, I am free to tem, and is popularly known as "canker." It is met say, that the patients whose mouths have given me with especial frequency in nursing women. This is the most trouble, have been those to whom mercury

It has been noted by dental surgeons that mercury is capable of inducing the condition known as pyorrhœa alveolaris. From personal observation I am cult of cure sometimes, and require a treatment which convinced of the correctness of this view. There is also little doubt in my mind as to the probability of The eruption is probably a herpes, the basis of which syphilis itself being the cause in some cases. Alis a neurosis, and in its treatment nervine tonics are though not familiar with dental literature upon this subject, I have found in conversation with several These lesions are preceded by simple hyperæmia, members of the dental profession, that cases occawith little or no swelling and evidently no new form-sionally occur which are attributed to syphilis. It is ation. Their color is usually pearly white, or, if obvious that in these cases, constitutional treatment greatly inflamed, they present a yellowish base, is of the greatest importance, and is the only method They look very much as if the mucous mem of accomplishing that basic principle of all treatment

are often quite painful. There are no evidences Although the ordinary erosions, mucous patches,

and ulcerations of the oral cavity occurring during the secondary period, are annoying, they are rarely This cannot be said of the late secdestructive. ondary and tertiary lesions. A characteristic feature tions. This consists essentially of an accumulation tions on a certain Malady occurring among Cows at of cells of a low grade, which obstruct the tissues, and impair their vitality.

seous tissues and periosteum, and often affects the before the Society a short description of a cow disjaws and hard palate, with or without involvement of ease which had been the subject of investigation by the nasal bones. Its results are inflammation, caries, or necrosis. In the diagnosis we rely upon the his- recent inquiry into an outbreak of scarlet fever which tory somewhat, but there is usually no difficulty in occurred in certain districts in London and in Henpassing an opinion upon the physical appearances don amongst consumers of milk derived from a dairy alone. If seen early, a gummy tumor may be defarm situated within his sanitary district. It was not tected. It is a hard inelastic swelling over the bone. his intention to discuss the circumstantial evidence. It is not especially tender, and is not much discolored, which led to the discovery of this disease amongst as a rule, although it may be of a bluish tint. It is not very painful, except at night, when the pain is milk. These were respectively in the hands of Mr. apt to be severe. Taken all in all, the morbid pro. Power and Dr. Klein. The disease is certainly not cess is a passive one. Later on, the gumma softens a new one; it has been known to some farmers and at its centre, and the skin becomes thinned and dis- cowkeepers, at any rate, as a catching malady under colored. Ulceration may occur, or under treatment the designation of sore teats, blistered teats, and the the softened material may resolve. If the tumor like; but it has never hitherto been recognized or absorbs, a depression remains in the surface of the described as a specific contagious disease amongst bone. If ulceration occurs, the probe will usually cows, or considered to have any concern with the strike bare and roughened bone at the bottom of the causation of scarlet fever in the human subject, and cavity. When small bones, such as the vomer and has commonly been regarded as a malady of little palate, are involved, nutrition is so impaired that necrosis occurs in many cases. In such cases the and speaking favorably of its sanitary condition, the bone is apt to come away entire and preserve its author stated that the disease first appeared in some natural form. Nothing but syphilis will thus dissect out a bone. The resulting deformity in these cases fortnight before the first cases of scarlet fever occurred is very marked, and should the palate be involved, among consumers of the milk. It was subsequently speech is so impaired that the aid of the dentist is ascertained that one of these cows, which was the first necessary. With an obturator, these cases of acquired sufferer, introduced the disease into the herd, the malcleft palate may be made quite comfortable. Oper- ady spreading from shed to shed until the whole herd ation is rarely productive of great benefit, on account of 100 cows, with very few exceptions, was attacked; of the low vitality of the tissues in long-standing cases of syphilis.

It is probable that, with the exception of phosphorus necrosis, traumatic necrosis, and cases undoubt- among the consumers of the milk procured from these edly due to diseased conditions of the teeth, the sheds. Dr. Cameron described the disease generally majority of cases of necrosis of the jaws, nose and as a specific contagious disease, occurring usually in palate are due to syphilis, more or less remote. The the first instance amongst newly calved cows, and dental engine has done excellent service in these capable of being communicated to healthy cows by cases. In the hands of Dr. Goodwillie, especially, direct inoculation of the teats with virus conveyed it has done good work. It has been shown that by by the hands of the cowman. The disease may conearly operation the necrosis may be limited and re- tinue from four to six weeks, and is characterized by covery hastened.

I have already encroached upon the time of the Section to a considerable extent, yet I have not been able to do more than outline in a general way the more important points of my subject. I am well aware that the ground has not been thoroughly covered, but if points in the individual experiences of and well-marked visceral lesions. The author then of this paper will have been accomplished.

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# MEDICAL PROGRESS.

SCARLET FEVER FROM COWS MILK .- At a meeting of late syphilis is a tendency to the deposit of so of the Epidemiological Society, on April 14, DR. called gummy material or syphiloma in various situa- James Cameron read a paper entitled, "Observaa time when the Milk produced by them disseminated Scarlet Fever," of which the following is an abstract. This deposit has a special predilection for the os. The author began by stating that he proposed to lay Mr. W. H. Power, Dr. Klein, and himself during a importance. After giving an account of the farm, newly purchased cows, which had arrived about a while, coincidently with the spread of the disease among the cows and into the various sheds, scarlet fever made its appearance, and continued to prevail general constitutional disturbance, a short initiatory fever, a dry hacking cough, sometimes quickened breathing, sore throat in severe cases, discharges from the nostrils and eyes, an eruption on the skin round the eyes and hind quarters, vesicles on the teats and udder, alteration in the quality of the milk secretion, the members have been recalled to mind, the object proceded to discuss the symptoms in detail, and referring to the eruption on the teats and udder, stated that from five to seven days after the commencement of the illness one or more teats became much swollen, and vesicles or bulke shortly make their appearance upon them. These vesicles are usually rubbed and

broken in milking, leaving sores with raised ulcerated stages of maceration, quite a large proportion, probabe easily conveyed to other cows. Shortly after the pearance or color. Bromide of potassium and chloral sore, and this may remain from ten days or a fortnight proper diet, and tonics soon restored the patient to distributed before this peculiarity had had time to tions were normal in appearance, and her general

DELIRIUM TREMENS CAUSED BY CHEWING TEA.— DR. W. B. SLAYTER, of Halifax, N. S., relates a peculiar and interesting case of this nature. A girl complained of sleeplesness, nervousness, and repeated twitchings of the muscles of the face and extremities, which would continue for several minutes at a time. These symptoms had been present for several months of great nervousness and fidgetiness occasioned by previously. Her mistress informed me that the girl had been acting strangely for several days. She was wandering in her mind at times, and imagined people and evil spirits were about her seeking to do her harm. She had not slept for several nights, and on one or two occasions had been found at night wandering about the house. Pulse 96 and small; tongue dry heart-weight at pracordia; sallow complexion. A of the Committee's report.—Lancet, April 24, 1886. dose of bromide of potassium and hydrate of chloral gave her a good rest for the night, and next morning she was sent home to her mother.

looking edges; at this period the disease appears to bly a third, being tea-leaves quite unchanged in apvesicle has been broken a brown scab forms upon the in a few days quieted the nerve-centres; good nursing, to five or six weeks, a thin discharge escaping from her usual health. After the action of the cathartic I beneath it until the sore is healed. There is a tendency for the milk to become ropy during the illness, size, but it was not until several doses at intervals but this is not always present, and as a rule this con- had been administered that the tumour entirely disdition is not apparent until the milk has stood for appeared. After each dose a quantity of tea-leaves five or six hours; hence the milk from this farm was were expelled. In about three weeks the evacuashow itself. After describing the difference between health was fairly restored. The patient informed me cow-pox and the disease in question, Dr. Cameron than when about 17 years of age she went to one of urged the necessity for examination of cows and for the New England towns to work in a factory, and the removal of all suspected animals from the milk there contracted the habit of chewing tea-a habit, business, and he expressed the hope that the Govern- quite common amongst the factory girls. She thought ment would see fit before long to institute some she chewed on an average about half a pound of means of more effectually protecting the general tea daily, and some days more. It made her feel public against the recurrence of these disastrous out better able to work. Of course, as to quantity her breaks of disease which are due to milk.—Lancet, estimate may not be depended on. She had never been addicted to alcoholism, and ascribed her attacks solely to the tea-chewing. She tried to give it up, but felt so nervous and fidgety as to be compelled to return to the old habit. The second attack caused me to copy from my case-book the notes taken at the time. The only points of importance are the cause and the repeated and continuous muscular twitchings. Of course most physicians have met with many cases excessive tea-drinking, but I cannot find any record in any of the works on medicine or materia medica within my reach of such severe symptoms being induced by tea-chewing. Ringer tells us that "the Physiological Committee presided over by the late Dr. Hughes Bennett concluded that the motor nerves are unaffected." The long continued repeated musand brown; eyes suffused; irregular action of the cular twitchings would seem to contradict this portion

KRULL'S METHOD OF TREATING CATARRHAL JAUNDICE.-M. R. LONGUET gives an account of At 4:30 A.M. three days later I was again summoned this treatment and of Löwenthal's confirmation of its to see her. Some men had found her walking about efficacy. It seems that Krull published an account one of the wharves of our city, in the neighborhood of his method in 1877, but that it excited little attenof her mother's house. They tried to persuade her tion until Löwenthal took it up. It consists simply to go home, but she broke away from them and en-deavored to jump off the end of the wharf, when she first injection, of one or two quarts, at a temperature was caught and taken to her home. I found her with of 59° F., is thrown in gently and retained as long as a pulse of 110, a very dry and brown tongue, possible; on the succeeding days an enema is given suffused eyes, no marked increase of temperature, every morning, the temperature being gradually inviolent delirium, and tremulous hands and arms-in creased to 71.6° F., which is not exceeded. The short, the well-marked symptoms of delirium tremens. cure is generally accomplished by the fourth day, and Her mother informed me that she had complained of in no instance have more than seven injections been a good deal of pain in the abdomen, and on examina found necessary. No failures are mentioned, although tion I found a smooth, quite hard tumor in the right several of the cases were of long standing and had iliac region, half as large again as an ordinary orange, resisted the most varied treatment, including the Owing to the violent delirium I was unable to find use of that ultima ratio of the Germans, Carlsbad out whether it was tender to the touch or not.  $\Lambda$  water. No medicine is allowed to be taken, and the hypodermic injection of morphia somewhat relieved dict is restricted to vegetables. Löwenthal, who the nervous symptoms. A brisk cathartic brought used injections somewhat colder than those menaway a mass of hardened feeces, followed by a tioned, tried the method in forty-one cases, and he large quantity of a thickish tarry-looking excreta, which seemed to be made up of tea-leaves in different New York Medical Journal, May 1, 1886.

THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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### SATURDAY, JUNE 12, 1886.

THE BLOOD-PLAQUE AND COAGULATION.

the corpuscles to coagulation.

a red corpuscle, which is sufficiently accurate for other than an independent morphological elementhowever, a plaque may be found which measures as zero, Laker, Lavdovsky, Halla and Schimmelbusch. much as 5 mm. It is a circular disc, with a smooth, Careful and painstaking enumerations as to the

which show a bilateral depression. "It is a homogeneous, smooth, structureless protoplasm, of a light grey color, and in the unaltered state no nucleus can be found." As to whether a nucleus is found after staining there is considerable dispute. After the blood has been withdrawn from the vessels two peculiarities of the plaques occasion a serious hindrance to their recognition as special elements of the blood: the rapidity with which the protoplasms alter, and their tendency to adhere to one another and to substances with which they come in contact. So long as they are kept in the vessels they do not seem to change more rapidly than the corpuscles, as Osler has found them unaltered in the pial vessels of man some hours after death; and well-preserved plaques may be found enclosed in fibrin taken from the body some time after death.

What is the origin of the plaque? More than half a dozen answers have been given to this question, and experimental evidence has been adduced in support The two most notable papers that have appeared of each answer. So long as the red and white corfor some time on the physiology of the blood are the puscles were the only recognized histological ele-"Cartwright Lectures," by Professor William Os- ments of the blood it was most natural for any LER, on "Certain Problems in the Physiology of the observer to connect the plaques and masses with one Blood-corpuscles," and a paper by MR. GEO. T. of these elements. They have been variously re-KEMP, Fellow of Johns Hopkins University, "On garded as hæmatoblasts, or young red corpuscles; as the so-called 'New Element' of the Blood and its derived from the red corpuscles; as derived from the Relation to Coagulation," published in Studies from white corpuscles; as nuclei floating free in the blood; the Biological Laboratory, Vol. III, No. 6. Dr. Os- as fibrin; and finally as independent elements. It ler's first lecture deals exclusively with the blood- seems scarcely worth the while to mention the eviplaque, while in his third he treats of the relation of dence upon which these views have been founded. Suffice it to say that the views are carefully examined As is well known, the blood-plaques have been vari- by Kemp, and sufficient evidence brought against ously designated as elementary corpuscles, globulins, them (save those which claim that they are hæmatogranular debris or Schultze's granular masses, hæmato- blasts or independent elements) to render them most blasts, and Bluttplättchen (by Bizzozero). In pref- improbable. That they are not due to changes proerence to the literal translation of Bizzozero's term, duced in other elements after the blood is drawn is blood-plate, both Osler and Kemp have adopted shown by pricking the finger through a drop of osmic the term blood-plaque as being more euphonious, acid, by which process all the elements of the blood Various writers have referred to this element as the are immediately set when they leave the vessel. Fur-"third corpuscle," but the objections to this term are thermore, we could scarcely ask for more conclusive so grave that it has been practically abandoned. The proof than that five competent observers-Bizzozero, plaques may be described as minute elements circu- Lavdovsky, Hlava, Schimmelbusch and Osler-have lating in the blood plasma with the other corpuscles, seen them circulating in the vessels of the mesentery, and possessing such specific and distinct characteris- and in the uninjured vessels of the connective tissue tics that they must be numbered among the normal of young rats. Kemp's opinion is that there is no histological constituents of the blood. Dr. Osler doubt that the plaques exist in the blood, and we have gives their size as from one-sixth to one-half that of not yet sufficient evidence to believe them to be elements showing such variations in size. Sometimes, a view which is held by Max Schultze, Osler, Bizoz-

well-defined margin, and occasionally some are found presence of the plaques in the various acute and

chronic diseases have not been made, but Osler draws corpuscles and plaques is that, under certain circum-

that the plaques are hæmatoblasts, is strongly sup-stained proportionately. ported. He believes that the red discs are nucleated, Hayem further supports his hæmatoblast theory by

the following conclusions from numerous observa- stances the latter will shrivel and become crenate; tions: 1. The plaques are increased in all chronic and Kemp says that it is quite a usual thing to see wasting diseases—cachexiee—with or without fever; both plaques and red corpuscles caught at one end debilitated persons, the subjects of phthisis, cancer and drawn out by a current so as to present a long, or other chronic wasting diseases present a marked pear-shaped or even threadlike appearance. Accordincrease. In phthisis the ratio of the plaques to the ing to Hayem, again, the plaques contain hæmoglobin; red corpuscles may be as high as 1 to 5. 2. In acute a view which is supported by Mayet and Laptschinsky, sthenic fevers they are not increased in the early the latter having described corpuscles about one-third stages. As the disease advances, however, and the the size of the red corpuscles, which are sometimes patient becomes weaker and more debilitated the in- more strongly colored than usual, and sometimes crease is marked as a rule. This is especially well colorless. Riess, Bizzozero, Laker, Hlava, Halla seen in typhoid fever, in which during the first week and Schimmelbusch take the view that the plaques the number of plaques may not rise above normal, are without color, and Kemp has tried in vain to find while in the third and fourth weeks there is usually a hæmoglobin in them, even with the double staining large increase. 3. In the so-called blood diseases the fluid of carmine and indigo-carmine, which is claimed number of the plaques is variable. For example, to stain green any cell containing hæmoglobin. Anmany observers have noticed large numbers in cer- other point of relation between the plaques and red tain cases of leukæmia, but in other cases the increase corpuscles, pointed out by Hayem, Bizzozero and is not apparent; and the same is true of lymphatic Lavdovsky, is that in different animals the size of the anæmia. In some cases of Hodgkin's disease Dr. plaques always varies in the same ratio as that of the Osler has seen the plaques in very large numbers; red corpuscles. To this point Kemp adds that in they may be scanty in profound anæmia; and in cases trying to get a preparation from which to make a of pernicious anemia the clusters of plaques may be photograph of the plaques, he tried ten different almost absent, or much more scanty than in health. staining fluids on the blood after hardening in osmic It must be acknowledged that the theory of Hayem, acid, and in every case the plaques and red discs

and in an article in the Archives de Physiologie three the assertion that in pathological conditions of the years ago he asserted with confidence that the plaques system where "new blood" is demanded, we may are nucleated. If, as Hayem asserts, the plaques always find the plaques in increased numbers—which are biconcova, this is another point of resemblance. fact had already been stated by Reiss. But there is Laker agrees with Hayem on this point, but Bizzozero an objection to this assertion which is so great as aland Schimmelbush assert that they only become bi- most to necessitate a Scotch verdict. Kemp says: concova when drawn into a salt solution or Hayem's | "The sources of error in all numerical determinations fluid. Kemp, however, asserts that in addition to of the plaques are very great, on account of the tenseeing them on edge and making out their character- dency which these elements have to adhere to each istic dumb-bell shape, he has succeeded several times other or to any foreign body with which they come in seeing them roll over and over in a very slow cur- in contact. I was early led to see that for this rearent, so that at least in osmic acid and Hayem's so- son numerical determinations, where the blood had lution he was able to convince himself beyond all to be measured, were practically of little value. The question of their biconcavity. The biconcavity is same point has been made by Schimmelbusch, who, also shown in a photograph made from a specimen in addition to the results of his own observations, stained with Bismarck brown. Afanasef regards has shown that enormous variations exist in the re-Hayem's "nucleus" as only a precipitation of granules sults of the same observer, while different observers in the centre of the plaque, and Schimmelbusch takes have shown diametrically opposite results, in detera similar ground. Kemp has failed to see anything mining the number of plaques in certain pathological which he regards as a nucleus, and thinks that the conditions. I think the only way to obtain a reliable concavity seen when examining full on the surface numerical determination of the plaques would be to may be very probably mistaken for a nucleus. As prick the skin through a drop of osmic acid, examine in the case of the red corpuscles, the question of a a thin layer of this mixture, and count the relative cell-membrane may be raised in regard to the plaques. number of plaques and red corpuscles. A separate Still another point of resemblance between the red determination would then have to be made by the

usual methods for the red corpuscles, from which the by-laws of the Society, a sine qua non of a legal elecnumber of plaques could be calculated. Even this tion, every unbiased mind must hold that they were method would not be free from error, for Hayem not legally elected. Hence, the clear position was has shown that enough plaques adhere to the edges that the Philadelphia County Medical Society had no of the wound to make an appreciable difference in legally accredited delegates, and the Society was not the extravasated blood. Probably the most suggestive observations in support of the hæmatoblast theory were made by Hayem, who has found the plaques in the vaso-formative cells of the mesentery of newlyborn kittens, where the young red blood corpuscles are in process of development, while both Hayem and Pouchet have described intermediate stages between the plaques and the red corpuscles.1 We cannot regard the hæmatoblast theory as proved, but we must acknowledge that the relationships between the plaques and the red corpuscles are most striking; and it seems as though this is the most plausible explanation offered."

We-have now come to the question as to the relation of the plaques to coagulation, which will be discussed in the next issue of THE JOURNAL.

#### THE AMERICAN MEDICAL ASSOCIATION.

The Medical Record, of New York, and a few other journals of less note have been indulging in expressions calculated to create the impression that the recent meeting of the Association was less representative of the whole profession than most of its predecessors; and that the action of its Judicial Council in reference to the admission of the delegates from the Philadelphia County Medical Society had started a serious split in the membership of the Association. To the latter accusation the Medical and Surgical Reporter, of Philadelphia, of May 22, replies so directly and truthfully that we quote from it as follows:

"It is hardly fair to speak of a split when only a few fibres are carried away; it would be more correct to say a shave or a scrape. The main body of the American Medical Association is to-day more united than it ever was, and it has lost the allegiance only of those who 'got mad' because they could not control. We cannot help but see that the action of the Judicial Council was eminently proper in the case of the alleged delegation from the Philadelphia County Medical Society. There were two sets of delegates before them; one set had been regularly and legally nominated, but they were not elected; the other set had been elected, but, and this is a big BUT, they had not been legally nominated, and as such nomination is, according to the constitution and

entitled to recognition."

The pretense that the recent meeting at St Louis was in any sense more geographical or less generally representative than in former years is very easily disproved by reference to the facts. Probably no three meetings could be chosen from the whole history of the Association affording a fairer basis for comparison than those held in New York, 1880, Washington, 1884, and St. Louis, 1886. The first was in the great metropolis of the Atlantic States, immediately surrounded by the greatest density of population and the most complete social organization of the profession: the second in the capital of the country, with more local attractions than any other city; and the third in a great city in the central part of the Mississippi Valley. The number of members attending each of these meetings was between 1,000 and 1,200, embracing delegates from almost every State and Territory in the Union.

The six States that furnished the largest number of members in the meeting at New York in 1880, were New York, Pennsylvania, Massachusetts, New Jersey, Michigan and Connecticut; New York alone furnishing 310, or very nearly one-third of the whole number present.

The six States having the highest number of members in the meeting at Washington, 1884, were Pennsylvania, Ohio, New York, Indiana, Illinois, and Iowa; Pennsylvania sending the highest number, it being 219.

The six States having the highest number of members in the meeting in St. Louis in 1886, were Missouri, Illinois, Iowa, Indiana, Pennsylvania, and Ohio; Missouri furnishing 252, or less than one-quarter of the whole number in attendance. The only States not represented in the meeting at St. Louis were New Hampshire in the northeast, Delaware in the middle Atlantic region, Alabama in the south or Gulf region, and Nevada and Oregon in the extreme west. These facts show the entire fallacy of claiming that the recent meeting was less representative of the profession of the whole country than those held at any former period. If such a claim could be made in reference to either of the three meetings we have named, it would be the one held in New York in 1880, where a much larger proportion of members belonged to the State in which the meeting was held, than in either of the others. Again, in 1880 the regular

<sup>&</sup>lt;sup>1</sup>The observation of Hlava may also be taken in support of Hlayem and Pouchet; the colored bodies which he distinguishes from the plaques being plaques containing hæmoglobin, and on the way to form red corpuscles.

composed of representatives from the State, County and other local medical societies in every State, aggregating between 30,000 and 40,000 of the most active, enterprising members of the profession of the United States. These facts do not afford much support to the idea that the Association is about to crumble to pieces, or be speedily succeeded by a "Congress of American Specialists" constructed from a union or confederation of half a dozen American specialist organizations whose entire aggregate membership will hardly number five hundred.

## MAY INJURIES BE EXHIBITED TO JURIES?

The practice of exhibiting injured or deformed limbs to juries in malpractice suits by a plaintiff, or by the defendant in suits for medical fees for services. has long been regarded as a fruitful source of erronephysician or surgeon. To allow a jury of twelve, or twelve hundred, uneducated (medically) and unskilled men to say in how far the surgeon is responsible for a given deformity is as manifestly unfair as to allow the same jury to dictate to the attending physician as to what remedies should be used in a case of diabetes or typhoid fever, whether the forceps should be used in a case of shoulder presentation, or whether any, and what, antiseptic agent should be used in a case of ovariotomy.

The case of Carstens 7's. Hauselman, decided by the Supreme Court of Michigan, on May 12, has some points of interest to surgeons as regards this question. Action was brought by the surgeon for services rendered in the case and treatment of a fracture of the leg. Among other points of defense one was raised of improper treatment. The lower Court gave verdict and judgment for the plaintiff. Error was assigned because the Court below had refused to allow the defendant to exhibit her injured leg to the jury. Upon error the Supreme Court, per Campbell, I., used the following language:

"The injury occurred several years before, and there was testimony concerning the correctness of the treatment, which necessarily involved medical questions which no jury could be supposed to fully comprehend. It is not competent to allow juries to irregular action of the heart. determine for themselves whether a physician's course has been proper or improper in the treatment of a fractured limb, and the Court very properly refused to permit them to inspect it for that purpose. No inspection after an injury is healed, apart from some

paying membership of the Association was less than knowledge of the character of the injury and the 2,000, while it is now double that number, and is methods of treatment, could enable even a medical expert to decide upon the merits or demerits of the attending surgeon. A jury's guessing from such an inspection would be of no value whatever, and any needless exposure would have been, as the Court below properly held, improper, if not indecent."

## SOCIETY PROCEEDINGS.

## AMERICAN LARYNGOLOGICAL ASSOCIATION.

Eighth Annual Meeting, held in the Hall of the College of Physicians, of Philadelphia, May 27, 28 and 29, 1886.

THE PRESIDENT, DR. HARRISON ALLEN, of Philadelphia, delivered the Annual Address.

Following the Presidential address, a letter-from the Secretary of the Philadelphia College of Physious verdicts, and an act of manifest unfairness to the cians, tendering to the Association the use of the hall and the hospitalities of the college, was read.

Dr. Harrison Allen then read a paper entitled

TWO CASES OF ADENOID DISEASE OF THE ROOF OF THE PHARYNX WHICH EXHIBITED UNUSUAL FEATURES.

The result of operations for the removal of adenoid tissue from the pharynx is usually so excellent that the necessity for a repetition of the operation is said to be seldom met with. The following cases were related as presenting certain points of interest:

Case 1.—A. B., age 5 years, much emaciated, without appetite, suffering with frequent attacks of indigestion, was sent to him in the latter part of January, 1884. Examination showed the roof of the mouth to be elevated, but the slightest attempt to depress the tongue was followed by gagging. The nostrils were filled with a mucoid discharge, and a small quantity of a similar discharge was seen in the fauces after gagging. During the day, the respiration was not exceedingly difficult, but at night it was greatly impeded. Almost directly after the child fell asleep, respiration became labored. After three or four inhalations, breathing would cease, the child would open its mouth and make strenuous efforts to inspire. The child would then awaken and a forced inspiration ensue. It would then quickly fall asleep and the same phenomena would recur, and in this manner the entire night would be passed. To these were occasionally added fits of crying and emesis. During an attack of whooping-cough the symptoms became much exaggerated, and were associated with

Hypertrophy of the adenoid tissue of the pharynx with unusual reflex phenomena was diagnosed. On January 29, with the patient under ether, the operation for the removal of this tissue was performed. An attempt was made to break down this tissue with the finger, but the presence of the finger arrested

respiration. Efforts were then made to rasp the lowed by great improvement in breathing and articu-growth away with an instrument passed through the lation. The breathing did not improve at once, but nose, but in a short time the patient showed symp- the use of the Politzer bag resulted in marked imtoms of depression and the operation was suspended. provement. This had been previously tried without The pharvnx was next seared with the hot wire. effect. From this time she began to grow nervous. During the succeeding five weeks, applications of Eight days after the restoration of hearing, she comiodine and glycerine were made, but there was no plained that she could not keep still. In a short evident improvement in the breathing at night. The time the symptoms of chorea developed and gradupatient was again etherized and the pharynx shown ally increased in intensity. The speech became to be empty. Suspecting that the tonsils might be affected, and for over a month she was unable to the cause of the difficulty, a portion of each was exspeak. The chorea assumed an exceedingly severe cised. Still no improvement followed. A third attempt to detect the cause of the difficulty was made, and it was determined positively that the nostrils were patulous. A careful examination showed that during quiet sleep. Since this time the child has continued sleep the tongue fell backwards, and that this was the to improve and the chorea has now entirely disessential condition. It was then directed that when appeared. these attacks came on the boy should be held with the face downwards. The moment this position was cautery is used, it has been said that there is considassumed the child passed into a profound slumber, erable danger of the ether taking fire when this is It was then so arranged that during the entire night used as the anæsthetic. He always uses chloroform the patient should be watched, so that the tongue under such circumstances. should not have an opportunity of falling back. This DR. S. W. LANGMAID, of Detroit: In one case watching has been continued up to the present time. coming under his observation there was a period of The boy prefers to lie upon his side, but when the thirty-five seconds between the respirations. In that attacks come on; turns on his face without awaken- case, the difficulty was relieved by the patient getting ing. He is now a strong and healthy boy.

cyanotic at birth. The extremities were cold and of action of the respiratory centre. The removal of the a bluish color, but no difficulty with the heart could growth did away with the interruption of respiration. be detected. The irritability of the pharynx was He was not aware that much has been said in regard excessive. The patient had been twice operated on to this interruption of respiration. by other surgeons, and it was inferred that an attempt DR. CARL SEILER, of Philadelphia: One point had been made to remove morbid tissue. The pa- with reference to adenoid growths in the roof of the tient was etherized with great care and the entire pharynx is the effect upon singing voice. Dr. Bosnasal pharynx found to be much smaller than nor-worth, of New York, called his attention to the fact mal, and its roof was highly arched in form. The that different lines might be drawn on the roof of the posterior slope of the roof was the seat of adenoid pharynx corresponding to different notes of the scale, growths. Some were removed by the galvano-cau- A swelling in a particular situation will interfere with tery passed through the nose. Some of the nodules the production of a certain note. A case illustrating at the lower border of the pharynx were removed this was seen by him a short time ago. A young

she was again etherized, and it was ascertained that with his finger. She is now able to reach every note all the nodules had been removed, but that the mem-, with the greatest ease. brane at the roof of the mouth was exceedingly Dr. Harrison Allen said that Dr. Hooper's case thick and tended to obstruct the passage of air. is an evidence of the way in which the adenoid This was subjected to cauterization in several places, growths may affect the entire system. His case is No further efforts were made to reduce the size of noteworthy in view of the fact that the phenomena the membrane by operation, and the patient was appeared after the removal of the growth. With treated as a case of perverted nutrition of the osse-regard to the use of ether, he has not been unaware our system. Iodine and glycerine were applied lo- of the danger, but by fanning the patient for a mocally. Under this treatment gradual improvement ment before using the cautery the vapor of the ether in the nasal respiration took place, and at the present is removed, and he has experienced no difficulty.

only one case in which any accident followed the agrees with it in that the difficulty was relieved by operation for removal of adenoid tissue. This was change of position. In a case similar to the one rein the case of a little girl 8 years of age, of a neu-lated by Dr. Seiler, he removed a small mass of aderotic temperament and very precocious. Nasal res- noid tissue, and although the patient was able to piration had been obstructed and articulation had reach the higher notes, she complained of the sensabeen defective since the age of 3 years. Hearing tion of a large cavity in the situation from which the was also impaired. A large quantity of adenoid tismass was removed. sue was demonstrated; the removal of this was fol- DR. J. SOLIS COHEN then presented for Professor

DR. E. L. SHURLY, of Detroit: Where the galvano-

on his hands and knees. There must have been Case 2.—A girl 6 years of age. The child was either a falling back of the tongue or some inhibitory

lady could not reach the upper notes of the scale. The patient was improved, and two weeks later He found a small adenoid growth which he removed

time the child appeared to be perfectly recovered. He has been unable to find on record a case similar Dr. Franklin H. Hooper, of Boston, had had to the first one narrated. Dr. Langmaid's case

RAMON DE LA SOTA Y LASTRA, of Seville, Spain, a or other agents, had any influence in its production. paper on

#### LUPUS OF THE THROAT.

were red and swollen, its surface lumpy and irregular, and of a hard and elastic consistence. Some the natural movement is diminished or lost. Contrary pain was produced by palpation, but no bleeding. There was no trouble while talking or on coughing. Inating pain, and to leprosy, which is generally accomplished with or difficulty. Breather the panied with anæsthesia, there is in lupus no alteration ing was accomplished with perfect freedom. The lost the parties the longer paried the tubercle of the part. After a shorter or the paried with the parties of the sensitiveness of the part. medication with mercurials was tried. This occasioned such bad results that it was necessary to suspend it. He was then placed upon the use of iron remain quiescent for months or years and then take he began to have some doubts of its epitheliomatous destroyed. Infiltration always remains. nature. He next prescribed sodium argenite in as- All agree that the cure of lupus of the throat is cending doses, with a gargle of resorcin and the use more difficult than the same process in the skin. In of iodoform on the ulcerated surface after it was the cases which he has seen, the same treatment washed with a solution of borax. For a month the which he has employed in external lupus he has found ulceration continued to extend, and when he had lost of service in lupus of the throat. He does not despise all hope, it stopped its progress and became covered internal treatment, but uses such remedies as are inwith healthy granulations. Cicatrization went on dicated by the general condition of the patient. This and was complete in three months. The scar is ir- has an important influence upon the result of topical regular, elevated and depressed, hard and soft, the treatment. If the lupus is not ulcerated he applies posterior portion being adherent to the pharyngeal caustic substances. Until a few months ago he used wall. The lingual psoriasis continued. Restoration tincture of iodine. He has, however, found good to health has taken place. It is now eighteen months effects from the use of lactic acid. He has used it since the ulcer healed. With this result, he concluded in cases of lupus of the cheek and gums, and also of that the case was one of lupus.

found that great exertion of the voice or exposure course of the disease rather than as a result of the to irritating substances, the application of the cautery therapeutic measures.

He has never had an opportunity of observing the

initial manifestations of the disease, but he has been able to detect the involvement of sound tissues later The author referred to the difficulty of diagnosis in the disease. Sometimes the mucous membrane which was experienced in many of these cases, and assumes a purple color, and swells up and becomes in illustration related the following: In 1884, he was granulated. Then one or two nodules may develop consulted by a physician on account of an affection and may attain the size of a pea. Sometimes they of the throat. The patient was much emaciated, become prominent without any alteration in the apreduced in strength and with a clay-colored com- pearance of the mucous membrane. They may replexion. He was 60 years of age. The trouble main superficial, or they may attack the mucous tissue with the throat had commenced one year previously. and also the submucous tissue. Their form is rounded He was unable to take anything but milk and broth. and their surface is smooth. These nodules are dis-The throat was covered with psoriatic scales. The tinguished by their rosy red color from leprous tupharynx was lumpy and of a wine red color. The mors. Unlike carcinoma, the tumors are usually right tonsil was the seat of an ulceration extending quite distinct. On pressure they present an elastic from the pyriform fossa below to the middle of the resistance. This is greater than the hardness of inuvula and involving half that structure. Its borders flammation, but less than that of epithelioma. The submaxillary glands were swollen. The patient had longer period, the tubercle softens and becomes ulsuffered from rheumatism, but no history of syphilis cerated. The ulceration assumes two forms: In could be obtained. Taking into consideration the some cases the tumor becomes excavated to a conhistory of the case and the age of the patient, he siderable depth, while in others it is more superficial. considered it an ulcerated epithelioma. This was These ulcers do not bleed on pressure. The cure is concurred in by the patient's physicians; neverthedifficult and attended with the formation of scabs. less, mistrusting the testimony obtained, antisyphilitic In some cases, these ulcers develop in a slow way, and bitter tonics and such diet as he could take, on destructive action. The healing of the ulcer is The specific treatment was subsequently resumed, followed by the formation of irregular scars, raised in but the local lesion assumed such a bad aspect that some places, depressed in others, red in the former, it became necessary to give up the treatment. From white in the latter. Adhesions to different parts take the fact that the ulceration was unattended by pain place. Cicatrization takes place slowly and is easily

the larynx. He has met with no inconvenience from His experience with this and other cases of lupus its use except the pain, which varies in different cases, of the throat has led him to conclude that the disease If the lupus is ulcerated, he sometimes uses the lacmay make its appearance at any period of life. He tic acid; more frequently he employs a wash of borax has seen it more frequently in adults than in children, and covers the ulcer with powder of iodoform. He and more frequently in men than in women. He always prescribes a gargle of a 1 per cent. solution has been unable to obtain any information in regard of resorcin. Patients thus treated have always reto inheritance. He has not found that hard drinkers covered after a greater or less time. In some cases or smokers were more liable to suffer, nor has he the cure has probably been realized in the natural

SOME POINTS CONNECTED WITH THE LARVNY AND ITS INTRINSIC MUSCLES.

The aperture of the larynx which communicates them as supports for the ventricular bands. with the pharynx is a large oblique opening, bounded connection of the crico-thyroid membrane with the above by the summit of the epiglottis and laterally by vocal cords is very interesting. There are two supthe aryteno-epiglottidean folds. The lower portion posed paralyses of the larynx which present exactly is formed by the notch of the arytenoid cartilages. the same picture. One is the paralysis of the thyro-Laterally on each side, two eminences are quite arytenoid muscle, giving the Indian-bow paralysis of prominent in the fresh larynx, an upper pair and a the Germans. The other is paralysis of the cricolower pair. The lower pair is produced by the care thyroid muscle giving exactly the same appearance. niculæ of the larynx which terminate the summits of the arytenoid cartilages. The text-books state that the finger on the crico-thyroid membrane. If the immediately above these there is another pair of membrane vibrates when the patient speaks, the cartilages. These are the cartilages of Wrisberg. The writer has rarely found these cartilages decidedly ence to the action of the crico-thyroid muscle in the white whiter. developed in the white subject. Where a prominence phonation, the thyroid cartilage is fixed, and when exists in the white subject, it is caused by a group of the attempt to sound high notes is made the cricoid glands. Often in these a little cartilage may be found. cartilage is drawn up by this muscle. The posterior In the negro, the cartilages of Wrisberg are conspic-crico-thyroid muscle, from its attachment, not only nously developed. This point has also been referred separates the vocal bands, but when they are made to by European writers.

The next point refers to the vocal cords, as they tension. are usually designated. Between these cords is the DR. JOSEPH LEIDY had never been able to see that fissure of the glottis. While physiologically it is cort he crico-thyroid muscle was related to the other rect to speak of the vocal cords, yet anatomically it muscles in the production of sound. He was glad is not correct to speak of vocal cords. These bands to hear the explanation which had been given, which are usually spoken of as the inferior thyro-arytenoid appeared to be a satisfactory one. There is another ligament extending between the thyroid and cricoid cartilage in front and AN INSTRUMENT FOR FRACTURING THE NASAL SEPTUM, extending back to the base of the arytenoid cartilages. This is the middle crico-thyroid ligament, and the chief difference from other instruments of the is connected with the upper border of the vocal same class being the great leverage which was membranes. This connection is very important. If obtained. the cricoid cartilage is broken or crushed, it must influence the action of the so-called vocal cords, for the vocal membranes are connected quite as much at the lower border to the cricoid cartilage as they are at the upper border to the thyroid cartilage.

The vocal cords are influenced altogether by the muscles attached to the arytenoid cartilages. These are supplied by the inferior laryngeal nerve. Another in which the wires were attached in the middle of muscle which may influence the movements of the the instrument, and both the wires and the electrodes vocal membranes is the crico-thyroid. This is sup- were secured without the use of screws. The conplied by a separate nerve, the superior laryngeal. Why this muscle should be supplied by a different heavier than usual, in order to diminish the resistance. nerve has not been satisfactorily explained. The muscles which operate the arytenoid cartilage are the posterior crico arytenoid, the lateral crico arytenoid and the arytenoid muscle. These muscles are sufficient to produce all the movements of the vocal membranes. Other muscles, that is to say the arytenoepiglottidean and the thyro-epiglottidean muscles, have been described, but in his experience, the de- cerning velopment of these muscles is exceedingly uncertain.

Another point is in regard to the connection of the muscles. In looking at the origin of muscles we usu-

DR. JOSEPH LEIDY, of Philadelphia, on invitation, portion of this surface. Between this and its insertion there is a smooth surface.

> Dr. J. Solis Cohen had noticed that the cuneiform cartilages are best developed in those who have the best control over their voices. He had regarded tense by other muscles, its action is to increase their

Dr. J. H. MACKENZIE, of Baltimore, exhibited

Dr. Carl Seiler exhibited

AN APPARATUS FOR MAKING SECTIONS OF FROZEN HEADS.

Sections made with the machine were exhibited. Dr. C. E. Sajous, of Philadelphia, presented

A GALVANO-CAUTERY HANDLE,

nections within the handle were made of copper and

THE PRESIDENT announced the following as the Nominating Committee: Dr. T. R. French, of Brooklyn, Dr. F. I. Knight, of Boston, and Dr. G. W. Major, of Montreal.

#### AFTERNOON SESSION.

DR. F. H. HOOPER, of Boston, read a paper con-

THE POSITIONS OF PARALYZED VOCAL BANDS,

The paper was in part based on experimental work ally consider that they are attached to the surface done in the physiological laboratory of the Harvard over which they lie: for instance, we look upon the Medical School, and in part theoretical. Specimens crico-thyroid as arising from the posterior lateral sur- and drawings illustrating certain points were shown. face of the arytenoid cartilage. If the muscle is cut The reader stated that it was his purpose to inquire across, we find that it arises only at the most remote into certain influences which might combine to determine the position of paralyzed vocal bands, and to cases of complete paralysis of the recurrent nerve, had undergone wasting. and he passed in review certain anatomical factors and physical causes which he thought might contri- a paper on bute towards producing the position which might happen to be present when seen reflected in the laryngeal mirror.

Dr. Hooper concluded by saying that in his judgment the larynx is such a complicated organ anatomits nerve supply is so great, the arrangement of its attempts to formulate theories on the positions alone of paralyzed vocal bands-positions which may be controlled by intrinsic muscles of the larvnx that are mental inferences.

the further

HISTORY OF A CASE OF PARALYSIS OF THE POSTERIOR CRICO-ARYTENOID MUSCLES,

presented at the first meeting of the Association in 1879, with a report of the autopsy and the exhibition of a specimen.

The history of the case was briefly given as follows: A man aged 48 years was brought to him with a history that for two years he had suffered from occasional spasm of the larynx so that, on at least two occasions, he had fallen unconscious in the street. When a boy he had suppurative inflammation of the left ear, and ever since then the introduction of the finger into the ear would produce spasm of the glottis. On examination with a mirror, the doctor found what he then considered to be the picture of paralysis of the left posterior crico-arytenoid muscle. examination produced spasm on the other side. The patient was directed to carry with him nitrite of amyle to be used when the attacks came on. This he did for awhile with good results. He subsequently returned with the statement that the day before he had a severe spasm from tickling in the ear. While illustrating this he had a violent attack in the office, requiring the use of chloroform to relieve it. The next day tracheotomy was performed. No other lesion was found at that time. The spasms were still produced by irritation of the ear. Five or six weeks later, he began to have paralysis of the right vocal band. The picture then became extreme, and after this time he never saw the larynx in any other position. The man gradually became blind, and developed other symptoms of locomotor ataxia. the four years preceding his death Dr. Cohen did not see him, but during this time he continued to wear the tube. He was able to speak well without occluding the tube. With the condition of conductor paralysis, the doctor thought there was a condition of spasm of the adductors.

At the autopsy the left recurrent nerve seemed ask whether we are always justified in assuming that natural, although it will be remembered that the left a given position of immobile vocal band was indica- cord was the first affected. The right recurrent tive of the arrested function of this or that muscle of showed a distinct line of demarcation between the the intrinsic laryngeal groups. The speaker thought healthy and unhealthy fibres. Instead of the right that a vocal band might assume different positions in muscle being atrophied, it was the left muscle which

DR. FRANK DONALDSON, IR., of Baltimore, read

THE FUNCTIONS OF THE RECURRENT LARYNGEAL NERVE, FROM AN EXPERIMENTAL STUDY IN THE JOHNS HOPKINS UNIVERSITY.

Reference was made to the fact that all the musically, it is subject to such changes at different stages cles, with the exception of the crico-thyroid, are supof life, its shape is so different in different individuals, plied by the recurrent laryngeal nerve. The nerve, therefore, contains fibres controlling both phonation muscles so liable to anomalies, that as surely as one and respiration, acting both upon the abductor and upon the adductor muscles. He then referred to the experiments performed by Dr. Hooper, of Boston, the results of which had been presented at the not paralyzed, as well as by those that are-just so last meeting of the Association. Dr. Hooper had surely will one be led unconsciously into erroneous found that the constrictors cease to act when consciousness was suspended by the action of ether, and DR. J. SOLIS COHEN read a paper which related that abduction with dilatation of glottis was obtained by stimulating the recurrent laryngeal nerve when consciousness was suspended. Dr. Donaldson's experiments were made to test the correctness of these results. In five experiments under states of deep narcosis, slight narcosis and almost complete consciousness, he invariably got adduction of the vocal bands under the application of stimuli with the induction coil at ten. In one case in which consciousness had been suspended, under slight stimulation, abduction was produced; while under strong stimulation, adduction was obtained. It was then found that abduction was always produced when weak currents were employed, but adduction was obtained when stronger stimuli were used. He therefore concluded that the constrictors did not cease to act during profound narcosis or in suspensions of consciousness from any cause, and that abduction is not always obtained when consciousness is suspended. It is with weak currents that abduction is produced, but as the stimulation is increased adduction takes place.

Dr. F. I. Knight, of Boston, said we must bear in mind that these experiments have been performed upon lower animals, and not upon man, and even if a certain unanimity of opinion is reached, we shall have to adapt these results to the case of man by clinical and pathological observation. It does not follow that the same mechanism takes place in the opening and closure of the glottis in man as in the lower animals. In regard to the abductor paralysis, he thought the whole question should be decided upon the position of the vocal process without any reference to the cord. If the vocal process is found in the median line, it is fair to assume that for some reason the function of the abductor muscle has been abolished. A good deal of difficulty has been experienced by observers in determining when the vocal process is in the median line. To him the crucial test is by phonation. If you get a vertical glottis on phonation, without any movement on suspected ual examination reveals an enlargement on the right cord, you have a sure case.

tary motion, closes it for speech.

(To be concluded.)

## OBSTETRICAL SOCIETY OF PHILADELPHIA.

Special Meeting, April 15, 1886.

W. H. H. GITHENS, SECRETARY.

(Continued from page 642.)

DR. H. A. KELLY exhibited the

OVARIES AND TUBES FROM A CASE OF CHRONIC OVARI-TIS, SALPINGITIS AND PELVIC PERITORITIS.

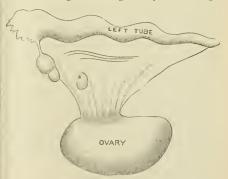
Also, the right ovary and tube from a case of

CELLULITIC CONTRACTION OF RIGHT BROAD LIGAMENT WITH DISAPPEARANCE OF THE MESO-SALPINX AND COHERENCE OF OVARY AND TUBE.

of which the following is the history: H. P., married, age 32, four-parous, has always been irregular in her menstrual function, the flow generally appearing from ten days to two weeks later than expected, and being scant. Her last confinement was eleven months ago. Labor was slow, but no instruments were used. The child died in two months. Ten days after delivery she had an attack of "typhoid fever," (sic) and since then she has never been well. During the fever, which lasted many weeks, she had constant severe pain in the right ovarian region, and had repeated chills and flushes of heat. She has at present severe pain in the right ovarian region, and ment. The left ovary and tube, which were free and

side extending from the middle of the hypogastrium Dr. S. Solis Cohen, of Philadelphia, said it was two and a half inches to the right, downwards to the important to distinguish between the automatic (respiration), the reflex (cough), and the psychic (phonation) functions of the larynx. A well known physiological law is that the resistance which a nerve cervix with it. The cervix points to the left and the offers to the transmission of nervous force is inverse-right fornix is very shallow. The mass has no firm ly as the use made of the muscle which it ennervates, attachment to the pelvis but is easily movable. It No muscle is used more than the abductors of the seems to spring from the right cornu-uteri. February: larynx. The resistance of their nerves would a pri- Pain and sensitiveness great. The right fornix obori, then, be supposed to be the least, and Dr. Don-literated and the uterus drawn bodily to the right aldson's experiments show that they respond to a side by a shrinkage in the mass. There is a mass weak stimulus. The phonatory muscles are not so which is as hard as a bone on the left side, like a finger, frequently used, the resistance of their nerves, though high up behind the vagina, pointing down in its axis. low, is higher than that of the respiratory fibres. The March: After faithful and prolonged treatment conrespiratory impulses traverse the nerve continuously, sisting for the most part of rest with counter-irritation and additional stimulation, whether reflex (irritation in the vagina and on the abdomen, and hot douche of the superior laryngeal), producing cough, or psyand glycerine plug, I made an explorating incision, chic, for purposes of phonation, produces adduction at my private hospital, on March 27, in the presence of the vocal bands. There is a local centre in the of Drs. R. P. Harris, Chas. Herman Thomas, P. G. medulla, the vago-accessorius, nucleus for all the Clark, Marie B. Werner, Boyle of Kansas, Bull of laryngeal muscles. Moderate stimulus from the res- Missouri, Baldy and I. W. Mecaskey to whose courtesy piratory centres opens the glottis for respiration, in- I was indebted for the case, and assisted by Dr. Jas. creased stimulus opens it farther, a greater increase, Hoffman. The right cornu-uteri was found elevated say by reflex irritation, closes it for cough. An im- and matted with a mass of mesentery in which it was pulse from the cerebral cortex, the centre of volun-completely encapsulated. This was slowly detached layer by layer, and the vermiform appendix separated for an extent of two inches. The tip of the appendix gave rise to troublesome bleeding finally checked by the cautery. An enlarged ovary with a withered tube intimately adherent to its periphery was then raised with great difficulty; a black walled cyst, about one and a half centimetres in diameter, burst and a quantity of grumous matter escaped into the peri-THE PRESIDENT, B. F. BAER, M.D., IN THE CHAIR. toneum. The ovary and tube were removed with great difficulty and a part of the hilum was left in the grasp of the ligature. This was carefully burned.

The illustration gives a correct indication of the structural changes in the right ovary, tube and liga-



constant headache; is unable to work or exert her- sound, I also removed as I was anxious to stop all self in any way. She has not now menstruated for determination of blood to the uterus. The figure two months, although regular before. She has a leu-, shows well the contrast between the two. The operacorrheea, which is intermittent in character. Biman-tion was protracted, lasting one and three-quarter The patient died on the seventh day of one looking; has been twice pregnant, the first being a



toneum was firmly glued together and my effort in the morning had not penetrated it, for as soon as the adhesions loosened a large quantity, at least a pint, of brown pus rushed out, and I found the whole posterior part of the pelvis shut off from the general peritoneum by firm agglutination of the viscera above and full of the same material. My chief anxiety was to find the vermiform appendix and see if I could blame it for any share in the result. It was found with difficulty and was covered with a thick finger of lymph. The sepsis came from the matter which esback for unnoticed symptoms for future guidance in such cases, several points deserved closer attention than they received. First: She complained more than usual of pain in the first three days. Second: The pulse remained about 112 instead of dropping below 100, as usual. Third: She wandered a little occasionally, insisting once that she saw a man in the room. She was more nervous about herself than any of my other cases had ever been, often insisting on sending for me in the night. These signs, taken together, are certainly significant in the absence of pulse and temperature indications.

DR. R. P. HARRIS saw both the patients from whom these specimens were removed. The ovary in the latter case presented a very peculiar appearance; it was cartilagenous, with small cysts. The material escaping from these cysts caused septic peritonitis. The first patient was wonderfully changed by the operation. She was free from pain for the first time in twenty years, and could scarcely be kept quiet, so great was her joy at her release.

Dr. HOWARD A. KELLY reported a

UNIQUE CASE OF EXTRA-UTERINE PREGNANCY; COM-PLETE REMOVAL OF THE SAC AND CONTENTS.

Mrs. J. B., 22 years of age, married three years,

of those remarkable insidious attacks of peritonitis. premature still-birth, the second a cross-birth, neces-She appeared to be doing well until the seventh day, sitating turning by the feet. Since the last pregnan-when I found her with a wild frightened look and a cy she menstruated seven times. In July she menpulse of 200. She had no pain at all. I broke up struated the last time for four months, when a flow the adhesions in the lower part of the wound, which came on (in November), at which time she passed a looked well, but I could not reach anything within piece of flesh called by a doctor a "false concepthe wound, and she died within two hours. Dr. R. tion." Previously to this she had noticed a swelling P. Harris was present at the autopsy a few hours in the right ovarian region which gave her some pain. later. The recti had a deep-red unhealthy appear- This pain was constant until the flow came on, when ance, and a few spots of pus lay in the floor of the it was relieved. In December, three weeks after wound, opened down to the peritoneum. The perithis flow, she thought she felt life and believed she was pregnant. She then had colastrum and a dull pain in the breast, and the nipples were coated with a waxy secretion. Examination: A tense, smooth, elongate, ovoid sac lay in front of the uterus (which reclined in the hollow of the sacrum), and rising out of the pelvis pointing over the pubis, reached half way up to the umbilicus as she reclined on her back. The tumor was very tender on pressure and presented a remarkable smoothness and uniformity of its surface. It had a tense fluctuant feeling, and was distinctly movable as distinct from but closely connected with the right side of the uterus. She menstruated regularly in January, February and March, the flow being lighter in color and much more profuse, lasting two or three days longer than her normal menstruation. On March 13 she was menstruating freely, and the notes state "the uterus lies, small in size, in the sacral hollow, and in raising the finger from the cervix to the anterior vaginal wall, an elongate, ovoid, tense cyst is felt on the right side; it is about 31/2 inches long by 21/2 wide. The cyst lies in the plane of the superior strait. The anterior extremity of the ovoid lies at the pubis, caped from the ovary. I say this for I have never and its posterior, attached extremity at the right coryet seen sepsis in any clean case. Then in looking nu uteri. A well defined sulcus exists between the tumor and uterus, and the two are connected by a short but distinct pedicle. The tumor is very smooth, and of a remarkable rubber ball elasticity. It is movable over an excensus of one or two inches, but too tender to manipulate further." These notes were made a week before the operation, which was upon March 20. I then wrote to Dr. R. P. Harris that I expected to operate upon an extra-uterine cyst, and upon March 20, assisted by Dr. Joseph Hoffman, and in the presence of Drs. R. P. Harris, Chas. H. Thomas, Marie Werner, Wm. Stuart, Baldy, Chas. M. Wilson, James Gibbs, R. Keely, Paris G. Clark, McConnell, and others, the sac and its contents were removed. The belly walls were fat. The incision was about three and a half inches in length, through the linea alba, beginning about one inch above the pubis. The sac wobbled about so in the pelvis that it was hard to bring its globular form up under the line of incision. It felt at first like an enlarged uterus, but the uterus lay retroposed, anteflexed, reclining in the sacral hollow. The tumor was raised and brought out of the pelvis by passing two fingers in front of and under it, hooking it up and revolving it on the axis of its attachment at the broad ligament; it was then delivered at the linear incision by pressing the walls outward and towards the patient's back of medium size, well built, but rather pale and worn until it slipped out; it was then transfixed below its

base and tied, and with the ovary and whole of the she had aborted. Having seen her in the operation, right fallopian tube, was removed intact. The cyst and upon several occasions since, I learned from was reddish blue in color, and developed in the free her that her menstrual periods usually lasted about margin of the right fallopian tube, its longest diame- three or three and a half days, but had increased to ter crossing the axis of the tube at right angles. Pure a week or thereabouts, after the return in November. half wide, smooth and slightly rugous in its long diameter. Dr. Charles Hermon Thomas incised it at found at the top, and the cyst empty of amniotic its free extremity, cutting through the placenta into fluid, which had been removed by absorption. The left to right. The recovery was as rapid and perfect as after any simple abdominal operation. An objection which naturally presents itself, and one which has been urged, is this: Here was an extra-uterine cyst containing a mummifying feetus in just the concept to the containing a mummification and its containing a mummification and the concept to the containing a mummification and the containing a mummification and the dition we try to obtain by faradic feeticide. Why

There can be no question in my mind that under interfere with it at all? My reasons were several all the peculiar circumstances of this case it was complexion, was looking sallow and wan, and was erate in such a case more than in one where feetal complexion, was looking sallow and wan, and was erate in such a case more than in one where feetal tion was manifest, and my bimanual examination revealed all the peculiarities of the case before making the section. Fourth, the very real danger of perionitis and the possibility of the later discharge of the feetal parts by protracted suppuration. And further, I was acting in accordance with the practice of such eminent authorities as Lawson Tait and Olsakanen, who counsel early interference in all pelivic recorded of the ill, effects produced by the farradic current?

I answer, that under the same peculiar sufferings and advantages the exsection might be called for. The after history of the cases of faradic feeticide has yet to be written. Thus far, there have been no death, immediate or remote, but there have been attacks of peritonitis, and there may be other troubles from the such eminent authorities as Lawson Tait and Olsakanen, who counsel early interference in all pelivic recorded of the ill, effects produced by ectonic feet. hausen, who counsel early interference in all pelvic recorded of the ill effects produced by ectopic feet-

mally pregnant; she ceased to menstruate on July turing from tension, and the woman's life is saved. 16, 1885, and there was no recurrence until November 17, a period of four months. She considered in the United States, was our fellow-member, Dr. herself pregnant, and as the menstrual flow of No. Joshua G. Allen, who has now operated three times vember lasted a week, was excessive, and she passed, with success, and all of the women are still living.

water was used for the sponges, and the instruments The development of the breasts; the presence of were kept in a dry pan. No antiseptic of any sort astrum in them; the discharge of the decidua; the was employed. Everything was thoroughly clean detection of the spherical tumor connected to the and prepared beforehand, and no antiseptic was right cornu uteri; the decrease of this in size after needed. The whole operation from beginning to the decidual expulsion; and the prolongation of the complete closure lasted forty minutes. Silkworm menstrual periods, all pointed to the existence of a gut sutures, about four to the inch, were used to right fallopian pregnancy and a dead fœtus. When close the wound, and with a little iodoform powder the tumor was brought into view in the operation, it and dry absorbent cotton the dressing was complete. was seen to be of a reddish blue color, which is com-The sac was about three inches long by two and a mon to feetal cysts, and about three inches in diamethe amniotic sac, which did not contain a drop of feetus was a male, 534 inches in length; and to judge fluid. The hands and then the head of the brown- by its size, degree of cranial ossification, and mark ish, exsanguine feetus protruded, its cranial bones of sex, it must have died near the end of the fourth well developed. There was not the slightest fetidity. month. Such a feetus, at the time of its death, must The whole feetus was well formed and perfectly pre- have occupied a cyst as large as a cocoanut. The served. It was a male, measuring 534 inches in loss of fluid in the cyst made it sufficiently flaccid to length; the cord was five inches long, twisted from admit of its being drawn upon so as to form a pedi-

First, my patient was constantly suffering from a proper to remove the feetal cyst for the purposes of painful tumor. Second, she had deteriorated greatly relieving the pain felt in it, and of checking the menin health, and in place of her usual fresh and rosy strual loss. The question might be asked, Why optumors where the probabilities of success are good, uses, which have died in the second, third and fourth It must be remembered in any critique of the case, months of tubal or abdominal gestation. We know that it presents features utterly unlike any other ab- that a feetus of the fourth month has been passed dominal pregnancy ever recorded as operated upon. whole from the rectum, and that one still smaller has Dr. Harris's remarks will show that the crisis is not been vemited; but death has rarely taken place withalways passed when the feetus is killed by electricity. in an unruptured cyst, in the second, third or fourth Dr. R. P. Harris said the case reported by Dr. months, and we therefore do not know by the past Kelly had as clear a history of extra-uterine preg-mancy as we ever find in the very early period of ec-topic gestation, when, it cannot be claimed, that a much to recommend it, by its safety of application, positive diagnosis can be made. We can, however, and by the present health of its subjects. Feetal very closely approximate it, as was done prior to death being followed by absorption of the amniotic this operation. The woman had been twice nor-fluid, there is no longer any danger of the cyst rup-

as she termed it, "two pieces of flesh," she thought | Case 1, 1869, and Case 2, 1870, were illegitimately

impregnated, and both have since married. Case I death of the fœtus, because the maternal tissues lose has remained childless; she continued well for two the extreme vulnerability that exists during the life or three years, and then went to the Jefferson Col- of the child. lege Hospital, where she was supposed to have rheumatism, but as the pain was in the lower part of of peritonitis after so much pain and tenderness. the abdomen on the side corresponding with the tack of pain to the presence of the foreign body; temperature or pulse. the age of the fœtus was computed at three months. In Case 2 the age was believed to be eight weeks, and the woman did well for a year or two, when she hydro-salpinx. had an attack of peritonitis lasting about three weeks. She subsequently married, bore a female at his first examination, but could not find it again. child, now ten or eleven years old; had a second Dr. Kelly has a case of extra-uterine fœtation on attack of peritonitis about a year later, and four or hand now, and is waiting for the death of the feetns, did not regard the attack as dangerous to life.

Dr. J. C. Reeve's patient has had a probation of fist should be removed." six years, and has had no after trouble to note.

Dr. C. L. Billington writes me that his patient has improved in health, and that although the fœtus was computed to have a three months' growth, "there was no tumor perceptible five or six months afterwards.

Dr. Lusk's second operation was followed by a peritonitis which confined the patient to bed for two and has had no trouble during gestation from the presence of the tubal sac.

Dr. Bache McE. Emmet's case never showed the Bombay-Bulbar Paralysis. the slightest effect from the presence of the ectopic fcetus up to the last report, about a year ago.

Dr. Garrigues examined his patient two years after the uterus had entirely disappeared." She had no longer any orgasm in sexual intercourse.

years his patient remains perfectly well.

In her menstruation, which was in progress when I last saw the patient of Dr. Kelly, the loss was refrom pain.

Dr. Baer spoke of a case of extra-uterine fœtation which had gone to full term, and in which laparotomy was performed thirteen months after the death vitality, and the tumor felt loose in the abdominal cavity and promised to be easy of removal, but when numerous and strong that removal would not be safe. The opening in the sac was stitched to the abdomi- Sir James Paget. nal wound. The temperature did not rise and there pregnancy carried to full term.

Dr. Longaker had been surprised at the absence

Dr. Kelly remarked that the pain had always seat of the feetal cyst, Dr. Allen attributes the at-been non febrile; there had been no elevation of the

> There had, in this case, been no sense of contraction in handling the tumor, as had been noticed in

L. Tait had heard the uterine souffle in one case five years later, a third. Although severe, Dr. Allen when he will operate. Ohlshausen has formulated the rule that "any abdominal tumor as large as the

# FOREIGN CORRESPONDENCE

#### LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT.)

Royal College of Surgeons of Dublin; Honors to months. She is now near her maturity of pregnancy Pasteur, Huxley, Paget, Lister, Wells and Marshall Vivisection Experiments in 1885-King Theebaw's Hairy Family-Anthropological Society of

The Lord Lieutenant and Lady Aberdeen, together with the Prince and Princess Edward of Saxe-Weimar, were present on the afternoon of April 28, the operation, which was performed upon a fectus of at some interesting ceremonies in the Royal College "barely two months," and "the tumor to the right of Surgeons, Dublin. First, Honorary Fellowships of the College were conferred on MM. Pasteur and Huxley, Sir James Paget, Sir Joseph Lister, Sir T. Dr. P. F. Mundé reports that at the end of two Spencer Wells, and Mr. John Marshall. From various causes Sir James Paget was the only one of the recipients who was able to be personally present. Next was unveiled a statue erected to the memory of stored to its normal moderation, and she was free William Dease, one of the founders of the College and its first President. He died in 1798. This statue which is erected in the entrance hall, is the gift of his grandson, Mr. O'Reilly Dease, who has also presented the Butcher Museum for the accommodation of of the feetus. The mother had shown great loss of surgical casts. This Museum was formally opened. The honors of the reception was performed by Sir Chas. A. Cameron, the President, and Mr. William the abdomen was opened, adhesions were found so Stokes, the Vice-President, the former of whom made an interesting speech eulogising William Dease and

The report from inspectors on experiments perwas full recovery. This was an instance of tubal formed on hving animals during 1885 has just been published. The total number of experiments per-DR. PARISH said we would find, in the large ma- formed during the year was about 800. Of these 210 jority of these cases, that at an early period adhe- were done under the restrictions of the license alone, sions would be slight and removal easy. Operation and eighty two lecture demonstrations under similar after rupture of the cyst is not complicated by adher restrictions. As regards the amount of pain involved sions except those formed by the placenta, which in these experiments, in all of them, except those are so vascular as to defy separation, and constitute performed under special certificates, the animals are the great danger. Prior to the fourth month before rendered insensible during the whole of the experisuch adhesions are formed, it is safe and easy to op- ment, and are not allowed to recover consciousness. crate. It is a favorable time to operate after the With respect to the experiments under special certificates, which dispense either partially or entirely with voice, and the food collecting in the sides of his ble increase of suffering of the animals employed.

long kept jealously at Mandalay, are coming to Europe for exhibition. The family have been renowned going up stairs or in rising from his seat, owing to in Burmese history for many years, and the present weakness of the extensor muscles of the thigh, which, members, a mother and son, form the fourth genera- in common with most of his extensor muscles, were tion known. The mother is 63, quite blind, and usu- wasted, exhibiting to a slight extent the reaction of ally sits motionless on a platform, occasionally fanning degeneration. The superficial reflexes were exaggerherself and speaking in a low, sweet voice. She was ated, and there was ankle and thigh clonus in the left seen and described by Colonel Yule when on a mis- leg. Sensation was complete. Treatment had consion to the court of Ava in 1855. Save her hands sisted of rest in bed, with 30 grains of iodide of and feet, she is covered with long soft hair, like her potassium daily. son, who is covered even to the drums of his ears, the hair in some places being five inches long. The man is of medium height, with pale brown skin, and is fairly friendly, having been partly educated and married to a maid of honor. Neither he nor his mother have either canine teeth or grinders.

An Anthropological Society has been founded in Bombay in order to gather and classify information respecting the native races of India. The scheme is eagerly taken up and a large number of members have already joined, under the presidency of Mr. Tyrell Leith. As a native member points out, the Bombay Presidency affords excellent ground for commencing such work considering the mass of aboriginal tribes in the hills and jungles, descendants of the non-Aryans driven out by the Aryan invasion. They are generally known as the "black races," and preserve native traditions fully 3,000 years old.

been under the care of Dr. Broadbent, and was men-mechanism of labor and of hæmorrhage, is contritioned by him at the last-meeting of the Harveian buted by Robert Barnes, while much of that which Society. The case occurred in a man aged 35, who relates to the prophylaxis of puerperal diseases, and was admitted as an in-patient into St. Mary's Hospit- the description of operations, is contributed by Fanal on January 29, 1886. While a soldier serving in court Barnes. Still the production is essentially a India he had suffered from ague, syphilis, sunstroke, joint production." That part of the book which dysentery, etc. The first thing he noticed was that treats of embryology is contributed by Prof. Milnes

the use of anæsthetics, no less than 328 consisted, so mouth, gave him difficulty in swallowing it, necessifar as any operative proceeding was concerned, in tating manipulation with the fingers, the saliva drib-simple inoculation or hypodermic injection, either bling away. These conditions, along with a gradually with some morbific virus or for the purpose of thera- increasing muscular weakness, had continued, with peutic inquiry, and in which the administration of an now and then a slight remission, until admission, when anæsthetic to which all animals have a great repug- he was unable to speak except in a whisper, every nance, would only entail needless annoyance and syllable necessitating a long forcible expiration. The distress. In this class of experiments, when the in- tongue was small and shrunken, could not be propoculation took effect at all, any appreciable suffering erly protruded, but could be moved from side to side, could be likely to ensue only in those cases in which There was impaired movement of all the facial mussome morbid affection was induced as in ordinary cles of expression, traces of the reaction of degenervaccination. It is impossible to give any precise es- ation, general muscular wasting, increased superficial timate either of the number of cases thus affected, reflexes and good sensation. There had been a or still less to appreciate the trifling and brief distress general improvement since admission in all these rather than actual pain that would be caused. Con-symptoms, the chief trouble arising from the profuse sidered in this way from the returns that have been amount of saliva with which the pharynx and larynx received from the various operators, and from other were frequently blocked. The condition of the paconsiderations drawn from their reports, it appears tient at the meeting included all the foregoing sympthat the number of animals that suffered any appreciatoms, with the addition of pain in the left side of the ble pain might be estimated at thirty-five or forty and face and head, with occasional nausea. The ophthalthese for the most part frogs. Although the number moscope showed pallor of the centre of the discs and of experiments in 1885 was nearly double those per-very small vessels, vision was consequently impaired. formed in 1884 the increased number consisted of The pupils were somewhat contracted, but retracted experiments not, or scarcely involving any appreciato light and accommodation. Hearing was also impaired. The heart's action was weak, but regular: Ex-King Theebaw's famous hairy family, which he respiration was chiefly abdominal. The man walked G. O. M.

# BOOK REVIEWS.

A SYSTEM OF OBSTETRIC MEDICINE AND SURGERY, Theoretical and Clinical. For the Student and Practitioner. By ROBERT BARNES, M.D., Obstetric Physician to St. George's Hospital; Consulting Physician to the Chelsea Hospital for Women, etc., and FANCOURT BARNES, M.D., Physician to the Royal Maternity Charity and to the British Lyingin Hospital; Assistant Obstetric Physician to the Great Northern Hospital; Physician to the Chelsea Hospital for Women. 8vo., pp. 884. Philadelphia: Lea Brothers & Co. Chicago: Jansen, McClurg & Co. 1885.

In the preface to this work the statement is made An interesting case of bulbar paralysis has recently that "the history of gestation, of puerpery, of the about a year before admission he began to lose his Marshall. The authors justify their action in calling

ological laboratory."

tioner, and they have succeeded well in their purpose. the Spinal Cord; 3. Diseases of the Peripheral and It is not an exaggeration to say of the book that it Sympathetic Nerves; Unclassified. is the best treatise in the English language on obstetrics yet published, and this will not be a surprise to figures taken from Ecker, Wernicke, Erb and Ferrier, elder Barnes.

analyze in detail even the chapters of the work, and must suffice. Unfavorable criticism may seem premuch attention to the application of Braxton Hicks's method of bimanual version in placenta prævia, as the matter deserves, especially in view of the very favorable results which have recently followed that practice in Germany. (For particulars see American Journal of Obstetrics for December, 1884-a report by Dr. Richard Lomer, assistant at Schröder's clinic in Berlin.)

In relegating the so-called and formerly disputed "milk fever" to the past the book simply adds the weight of its authority to the best teaching of the time. The classification of puerperal fever may meet with some opposition, but is clearly and sensibly put, and will probably meet more approbation

than opposition.

of kyesteine in the urine (p. 175) is an amusing illustration of the strength of a prejudiced opinion. After that kyesteine has been found in the urine of virgins, in the hands of any one who reads it carefully. and appearances very similar to it in that of men. Barnes remarks: "We may in conclusion state that, assenting to the propositions of these authorities, we have seen several instances in which a confident diagnosis of pregnancy expressed on the evidence of this appearance proved to be correct."

Perhaps the only serious fault of the book is the lack of fulness and completeness in the index. So good a book deserves a better index than this one has. In conclusion it is not an exaggeration to say obstetrical opinions of the time in a readily accessible and condensed form, ought to own a copy of the

book.

A TREATISE ON NERVOUS DISEASES; THEIR SYMP-TOMS AND TREATMENT. A Text-Book for Students and Practitioners. By SAMUEL G. WEBBER, M.D. Clinical Instructor in Nervous Diseases, Harvard Medical School; member of the American Neurological Association, etc., etc. 8vo. pp. ix-415. With Illustrations. New York: D. Appleton & Co. 1885. Chicago: Jansen, McClurg

npon Prof. Marshall by saying that "no man can ment in his preface that the book is not written for hope to master the facts and science of embryology specialists. The general introductory chapter on unless he can spend several hours daily in the physi- methods of examination in nervous diseases, together with a consideration of certain general con-The authors claim that the immediate purpose of ditions common to many forms of nervous lesion is the work is to furnish a handbook of obstetric medicine and surgery for the use of the student and practical author is: 1. Diseases of the Brain; 2. Diseases of

The anatomy of the brain is illustrated by fifteen those who have been familiar with the work of the some of the drawings being modified in reproduction. The arrangements of the relation of the text to the The limits of this review make it impossible to drawings is unfortunately such that the combined impression obtained from them is much less clear than hence mere mention of one or two special subjects it both ought and might be. The anatomy of the cord is illustrated by Hammond's colored plate, modisumptuous, but the authors have hardly given as fied from Flechsig, and leaves nothing to be desired. The arrangement of colors is such that the relations of the direct and crossed pyramidal tracts may be seen at a glance, and the text is clear and direct.

Among the "unclassified" diseases the author has given a satisfactory account of the comparatively

rare and interesting disease tetany.

The general arrangement of the book is excellent, but the clinical pictures of the various diseases are not so closely cut and systematic as it seems might be easily possible.

A list of the authors consulted, together with the titles of the articles by each, is given at the head of

each chapter.

In his discussions of treatment, the author shows that he is not a friend of nihilism in therapeutics, and What the author says in regard to the significance also that he is familiar with the subject of which he

For the purpose designed, for students and practistating that Parkes, Kane and Braxton Hicks have tioners, the book is a valuable addition to the literature carefully investigated the subject and have decided of the subject, and will prove a reliable clinical guide

# MISCELLANEOUS.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM MAY 29, 1886, TO JUNE 4. 1886.

Capt. E. F. Gardner, Asst. Surgeon, ordered for duty at Madeira Barracks, N. Y. (S. O. 47, Div. Atlantic, June 1, 1886.) that every practitioner who desires to have the best observing a point of the time in a readily accessible temporary duty at Ft. Snelling, Minn., and ordered to Ft. Keogh, M. T.

> First Lieut. Jno. L. Phillips, Asst. Surgeon, relieved from duty at Ft. Keogh, M. T., and ordered to Ft. Sisseton, D. T. (S. O. 45, Dept. Dak., May 24, 1886.)

> OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING JUNE 5, 1886.

> Smith, Howard, Surgeon, detached from the "Nipsic" and placed on waiting orders.

#### CORRIGENDA.

M. Co.

The author disarms hostile criticism by the stateThe author disarms hostile criticism by the state-

# Journal of the American Medical Association.

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## ORIGINAL ARTICLES.

RESEARCHES INTO THE ETIOLOGY OF DENGUE."
BY J. W. McLAUGHLIN, M.D.,

OF AUSTIN, TEXAS.

The epidemic of dengue which prevailed throughout the State of Texas during the fall of 1885, was unusual in many respects, for example:

1st. In its universality.

2d. In the violence of its symptoms.

3d. In its manifest contagiousness.

4th. In the protracted convalescence of its subjects.

5th. Its hæmorrhagic tendency. 6th. In its numerous sequelæ.

From Galveston, located in the South-eastern portion of the State, it spread, in the course of a few months, to its Northern border. During this time almost every city, and many of the country districts within these limits, fell under the epidemic influence of this disease. In the city of Austin about 16,000 cases of dengue occurred during this time, out of a population of 22,000 inhabitants. I am informed that other cities and sections suffered as severely, i.e., had as many cases in proportion to the population as did Austin.

Many cases where direct contagion was the cause of this disease came under the observation of the writer. He has no doubt that by this means it was carried and spread from one neighborhood to another, and from the city to the country by infected individuals. The violent type of the disease, the protracted convalescence of its victims, and its sequelæ, were unusually prominent in this epidemic. The first, by the suddenness of its invasion, often with an initial chill, its pyrexia, its excruciating pains, nausea, and the constancy of its exanthemata. The second, by the mental and physical prostration which follows its defervescence; this often continues for weeks or months, with anorexia and indisposition to perform any kind of labor.

The sequelæ most frequently observed were dysentery, entero-colitis, nephritis, bronchial and gastric catarrh, abscess, glandular enlargements and eruptions of the skin. It would seem from the peculiar clinical history of dengue, especially its contagiousness and its epidemic character, that it is a specific disease; that micro-organisms are the source of its

<sup>1</sup> Read in the Section on Practical Medicine at the Thirty-Seventh Annual Meeting of the American Medical Association, St. Louis, May, 1886.

infection, and these micro-organisms find in the blood a suitable environment for their growth and multiplication.

To determine the correctness of this theory, and if possible to obtain information with reference to the etiology and pathology of this malady, which is the scourge of our southern country, and especially as medical literature is absolutely silent upon these matters, the following experiments were conducted, with hopes that they would lead to a more rational therapy, or perhaps indicate some method of protecting individuals against dengue by means of inoculating them with the attenuated virus. I found, however, that I had neither the time nor means of carrying out the necessary investigations to determine the practicability of this hope, or of accomplishing these latter anticipations. A physician engaged in active practice has but little time, whatever his inclination may be, to indulge in experimental. work. The demands of his patients and his creditors too frequently prevent his giving that time to original work or pure scientific labors which the interests of his profession demand.

During the six months occupied in making these investigations, one-half, and frequently two-thirds, of nights succeeding days of toil, were utilized in these labors; they possessed my interest; I managed to give them much of my time. The work actually performed during this time is embraced in the follow-

ing statements:

1st. Blood, which was obtained from living subjects during the various stages of dengue, was microscopically examined, (a), directly, that is, without the addition of any chemical reagents; (b), after it had been subjected to the action of certain chemical reagents, viz: glacial acetic acid, with and without dilution; caustic potash in solution, both weak and strong; chloroform, and ether.

2d. This blood was carefully dried upon sterilized cover-glasses by passing these through the flame of a spirit lamp, and then subjected to the action of va-

rious staining reagents.

3d. Dengue blood obtained from living subjects was introduced, upon the point of a platinum wire, into test-tubes containing sterilized culture jelly prepared for this purpose.

These tubes were closed with plugs of sterilized cotton, then placed in an incubator, where the temperature was kept at 100° F. for the growth of such organisms as were contained in the blood.

4th. Blood was drawn directly from the veins of

were also kept in the incubator, at a temperature becomes at once apparent.

dengue subjects were subjected to microscopic ex- ments, and other agents used in these experiments.

aminations. results obtained from them. Before entering into the technique of these methods, which are necessarily tiresome, I think it better to submit the following technical methods, that, in the main, these were sufoutline of the results obtained: In the blood examined directly, or after its treatment with the chemical elements as well as in the plasma, micrococci about integrating it. to 10 to 10 the diameter of the red cells, spherical in seen in great numbers one layer superimposed upon red color is always distinct and characteristic.

the jelly, micrococci, and no other form of bacteria, be easily mistaken for micrococci. which in color, size and behavior, are identical with posed of micro-organisms held together by their gel- eratum in bacteria investigation. atinous envelope, or capsules; at the end of the blood, or grown in the culture-tubes, or bulbs.

the blood, or other portions of the body, for micro-cording to Ehrlich into organisms, every precaution against its accidental contamination, or the introduction of germs from (b), large lymph cells. outside sources, should be taken; without such precautions all investigations of this sort would be worth-

When it is remembered that air and water contain, polynuclear. large quantities of micro-organisms, that these adhere to the glass apparatus, metal instruments, fingers, and clothing of the operator, and that bacteria will Hippe. D. Appleton & Co., New York. 1886.

a living subject into a series of sterilized glass bulbs, quickly form in distilled water, and in staining fluids which were united by a capillary-tube. This was required in such examinations, the necessity of thorperformed in such a manner that it seems impossible oughly washing and then sterilizing by heat and by for germs from the air, or by other accidental means, chemicals, when this is practicable, all articles used. to have gained an entrance into these bulbs. These and by boiling and filtration, or other efficient means,

The methods which I adopted to secure cleanli-5th. The matters vomited and urine passed by ness and sterilization of all glass apparatus, instrumay not have been absolutely perfect in every in-It is the purpose of this paper to record the meth-stance. I made them as nearly so as the means at ods adopted in making these examinations, and the my command would allow. I am constrained to believe, from the uniformity of the results obtained, notwithstanding some minor defects in the detail of my ficiently exact to exclude serious errors.

The second difficulty which confronts him who exreagents already referred to, stained or unstained, I amines blood for schizomycetes, is to dry the blood invariably found, often in great numbers, in the cell on the cover-glass without overheating, and thus dis-

The third difficulty is, to not mistake for microshape, and red or purplish in color; when these were organisms certain elements and granules found in normal and pathological blood. These mistakes have another; frequently seen in the cultures, they appear- occurred frequently, and wrecked many a beautiful ed of a black or brownish color, but when seen singly hypothesis. That the reader may know and appreor in thin layers in the blood or in the cultures, the ciate the difficulties to which I refer, I quote from the recent work of Dr. F. Hüppe: "The examina-During the development of this organism, at some tion of blood for bacteria offers very great difficulty, period in its life history, from causes which I do not because in the normal blood within the vessels, and understand, it becomes surrounded by a gelatinous in the normal disintegration of the healthy blood, envelope; this I have frequently observed in the granular elements are present, or are formed, which blood and in the cultures alike. I always succeeded under certain pathological conditions, in anæmic in growing in the culture-tubes, upon the surface of state and in fever, are increased in number, and can

"They have already been often confounded with those seen in the dengue blood. The blood con-micrococci, and are almost daily mistaken for them, tained in the series of glass bulbs was examined, c.g., the renowned syphilitic corpuscle, and the sosome after the lapse of six weeks, others at three called organisms of the venom of serpents. Here months. In both instances I found that the blood belongs also much of what has been spoken of as contained a pure culture of micrococci which, in all the development of bacteria from nitrogen molerespects, were the same as those which I had pre- cules, from microzymen, or from the anamorphosis viously seen in fresh blood, and grown upon culture of protoplasm. An exact study of these granules of jelly, in culture tubes; these were apparently com- the blood is, on this account, an indispensable desid-

"These granular forms further constituent parts of casts, where the micrococci were less firmly attached, the cellular elements of the blood, and on this acor cemented together, their shape, size and color count again are of interest in actiology, because there were found to correspond with those seen in the are parasites which are similar to the amœboid cells, e.g., those monads found by Lewis in the blood of The microscopic examination of the blood for rats, by Koch in the blood of marmots. The elemicro-organisms is attended with many difficulties. ments of the blood, which directly or through their The first care is to obtain blood for examination that granules may be confounded with micro-organisms is not contaminated with bacteria from the air, or (with the exception of the red blood corpuscles), and from other outside sources. In all examinations of the products of their disintegration), are divided ac-

"1st. Lymphoid elementis, (a), small lymph cells,

"2d. Myeloid cells (eosinophile).

"3d. Undetermined spleen and [or] marrow: (a), large mononuclear cells, (b), transitional forms, (c),

"The small lymphoid elements are somewhat

smaller than the red blood corpuscles, possess a very the so-called plasma cells in the tissues have been large nucleus, so that there is very little or no proto- described as colonies of cocci. They can, on purely

plasm to be seen.

"The large lymph elements are a further development of the first, and are only to be differentiated metrical appearance of the cocci, but present the from them in this, that they possess, around the large greatest differences in the size of the granules. nuclei, a distinct border of protoplasm.

large oblong nuclei.

size of the red blood corpuscles, possess round or such preparations the bacteria are sufficiently stained, oval nuclei of large size, and a considerable mass of but not the granules." protoplasm. The mononuclear transitional forms are

tion, a polynuclear form; these are the true white acid, basic or neutral, in the manner described.

blood corpuscles.

present in the cells, and which become free in the their successful staining with the aniline dyes, rendestinction of the same, are divided with respect to ders this difference in the behavior of the protoplas-

their reaction to aniline dyes.

cal, strongly refracting, and can be stained in all the acid aniline dies. It is present in the myeloid ele- the following examinations of dengue blood were ments, seldom in the normal blood, and its number sterilized by the following methods: The cover-glass is greatly increased in leucæmic processes.

of rabbits and guinea-pigs, and can be stained by cleansing fluid, prepared as follows:

acid and basic aniline dyes.

"The y, or basophile plasma-cell granule, can be stained, like the bacteria, by the basic aniline dyes. These granules are coarse, slightly refracting, almost When they were taken from this solution, they were completely wanting in normal human blood, increas- again washed in clear water, and finally heated in ed in leucæmic processes, and are present normally the flame of a spirit lamp just before they were used. in the blood of the lower animals, especially the The metal instruments were washed in warm water white rat.

part of the large mononuclear elements.

fills the polynuclear elements of the human blood ing it to whiteness in the lamp. The arm or finger of quite thickly, is present sparsely in the transitional the person from whom the blood was obtained was forms, and very seldom in the mononuclear elements. washed with warm water and soap, then in a 5 per It can be stained by the neutral dyes. Without re- cent. solution of carbolic acid. course to staining, these granules, as a whole, and also the products of the disintegration of the red blood needle, and a small portion of the blood which apcorpuscles, may be confounded with micrococci.

 $\beta$  and  $\epsilon$  granules can be excluded. An error is then cover glass, this was covered by another glass in possible only with the  $\gamma$  and  $\delta$  granules, because order to obtain a thin layer of blood upon each of these are stained in the basic aniline dyes, the same them; they were then separated, dried, and finally as the bacteria. These last, on account of their fine passed three times through the flame of the lamp, in grain, can, with comparative ease, be differentiated order to thoroughly coagulate the albumen, and fix from micrococci, and have not, as yet, been con- the blood elements.

founded with them.

medium size, come so near to the known forms of places, and during the various stages of the disease. cocci that not only the individual free granules in The results which I obtained from examinations of

morphological grounds, be differentiated from them in this way, viz: That they do not all have the sym-

"If it be desired to examine the blood for bacte-"The myeloid elements are large round cells, with ria, a small drop is rapidly spread out in a thin layer, dried, fixed, and then passed three times through the "The mononuclear cells are about three times the flame, and then stained in the ordinary manner. In

Prolonged heating of cover-glass preparations, or to be differentiated from these cells only in this, that sections containing these granules, is necessary to the nuclei are no longer round or oval, but have become indented.

Sections containing these granules, is necessary to their successful staining. The method of doing this, which is recommended, is to subject the specimens, "The polynuclear elements are somewhat smaller, in a drying oven, to a temperature of 240° F. for an but still are always larger than the red blood corpus- hour; they are then prepared for the staining procles, and their nuclei show, as a further differentia- cess, and may be stained with their respective dyes,

As micrococci and other forms of schizomycetes "The granular elements, or granules, which are do not require this prolonged heating in order to mic granules on the one hand, and micrococci on "The a br eosinophile granule is coarsely spherithe other, an efficient means for their differentiation."

All the glass apparatus and instruments used in and microscope slides, which had never been previ-The  $\beta$ , or amphophile, is formed especially in ously used, were first washed in warm water with the marrow, very often in the leucocytes in the blood soap, then in clear water, then immersed in Seiler's

> Bichromate potash...... 2 oz. Water ..... 25 fld oz.

and soap, clear water, and then in a 5 per cent. solu-"The  $\delta$ , or basophile granule, is fine, and can be tion of carbolic acid; they were also heated in the stained in basic aniline dyes, and forms a constituent flame of the lamp just before they were used. The platinum wire was fused to the end of a glass rod, "The & or neutrophile granule, is very fine, and this wire was sterilized always before using, by heat-

The part was then punctured with a sterilized peared at the point of puncture was transferred by "By systematic staining with aniline dyes the  $\alpha$ , means of the sterilized platinum wire to the sterilized

Blood for examination was obtained from about "The plasma-cell granules, on account of their forty typical cases of dengue, at various times and the blood have been considered as cocci, but even these different specimens were entirely uniform.

per cent. solution of caustic potash, others with gla- brought easily into prominence. cial acetic acid, and others with ether and chloroand distinctly after treatment as before.

organism by the glacial acetic acid. This agent stained these organisms brownish, and changed their shape from spheres to ovoids; these were seen in such numbers that the field of the microscope was covered by them. I think this change in shape was only apparent, and was caused by the action of the acid been removed from the staining solution, and washed, upon the capsules of the cocci. I am sustained in is subjected to further manipulation; it is again dethis opinion by the fact that the organisms seem the invisible capsule being made visible by this agent. Inasmuch as there are no tissue elements in normal or cell elements, which can resist the destructive action of each of these chemical reagents, whilst bacteria, on the other hand, can resist them, it would seem evident that if spherical bodies, uniform in size, shape, color and behavior, are found in the blood in can resist the destructive action of these chemicals, they must be micrococci, and cannot possibly be anything else. The remainder of these cover-glass mark brown, vesuvin, gentian, violet, methyl violet, preparations were subjected to the action of the fuchsin, methyl-blue, aniline-green, picro-carmine, various aniline dyes, in both weak and strong aqueous solutions, in aniline oil, water, and in alkaline aniline waters. This result was obtained imperfectly solution.

of staining were very instructive and important; for instance, it was shown:

with the aniline dyes as readily as do other forms of bacteria.

caustic potash furnishes a staining fluid for which the cocci of dengue manifest an especial affinity.

fully appreciated, I shall quote the following remarks; these would retain the blue color after this had been from Friedländer: "Furthermore, if among a certain number of elements which appear to be identical, agents named. some conduct themselves in a peculiar way toward a certain reagent, while others do not-if, for example, some are stained by a certain dye, while others rethere was a primary difference among the elements.

Dengue blood dried upon the cover-glasses in the more or less permanent. . . . Hence in many inmanner described was subjected to the action of stances staining assumes the importance of a chemicertain chemical reagents, and aniline dyes, with the cal reaction, by means of which any particular strucfollowing results, viz: some were treated with a 10 ture that lies concealed among other bodies, can be

"This 'elective' action of dyes is of extreme imform. None of these chemical agents had any portance in pathological investigations. . . . The destructive effect upon the micrococci which the technique of dyeing is usually this: A section is blood contained—they could be seen as brilliantly transferred from distilled water to a dish filled with the staining solution, with which it is entirely covered: A peculiar effect was produced upon the micro- it remains in this for different lengths of time, varying from a few minutes to twenty-four hours, and is again immersed in distilled water, in order to wash away the portions of the dye that are adherent to its exterior.

"In many cases, however, the section which has colorized, that is, partially. In this instance there larger after treatment with the acid; this was due to has occurred at first a diffuse, even, but unnecessary amount of staining; but during the supplementary process of extraction, while certain elements give up or pathological blood, as corpuscles, granules, cells their staining completely, others, that have a stronger affinity for the dye, retain it. This is called by Ehrlich the principle of maximum staining. In accordance with these principles of staining, the blood, which had been dried upon the sterilized cover-glasses, was submitted to the action of various aniline dyes, certain pathological conditions, and these bodies to find, if possible, some staining fluid with which isolated staining of the micrococci could be produced."

With this object in view, I tried successively Bisand eosin in watery solutions, and in solution with with the solution of fuchsin in aniline water, and per-The results which were obtained by these methods fectly with methyl-blue in a solution of caustic potash.

With all the other dyes named, the results were negative, e. g., all parts of the picture were stained First. That the dengue micrococci do not stain alike—cells and organisms—and they were all decolorized with equal facility when washed in a 1 per cent. solution of acetic acid and then in absolute Second. Methyl aniline blue in a weak solution of alcohol. With the methyl-blue potash solution, however, a very different result was obtained; this dye, in the solution referred to, manifested such an affinity, In order that the importance of this matter may be or elective action for the organisms of dengue, that extracted from the blood cells by the decolorizing

The manner of preparing this solution, and the method of staining with it, which were adopted, are as follows: Concentrated alcoholic solution of methyl main colorless, we must necessarily conclude that blue, 30 c.cm.; solution of caustic potash, 1 to 10,000, 100 c.cm. In a dish filled with this fluid the cover-Upon this principle are formed all the methods of glasses were floated, with their blood sides downward. preparation, and some of them very complicated. The dish was then covered to exclude dust, and the which are employed for the exhibition of the different cover-glasses were kept in this condition from twelve histological elements. The principle in staining is, to twenty four hours. Better results are obtained by therefore, that certain elements or tissues, and also of keeping the staining fluid during this time at the tem-cells, appropriate actively, or in large quantity, from perature of 100° F. The cover-glasses are then rethe solution employed, a certain dye, and form with moved from the staining solution and washed in the this a combination having an intense color, that is 1 per cent. solution of acetic acid, then in absolute alcohol, until the color is entirely or sufficiently

The Use of the Microscope in Clinical and Pathological Examina-tions. By Dr. Carl Friedländer. D. Appleton & Co., 1880.

tive position of the organisms to the cells shown, if tubes were sterilized and filled with the jelly, and in Canada balsam, and examined with a high power, were carried to the homes of those persons from and with a large diaphram or open condensor. The whom dengue blood was obtained for inoculation blood cells should show of a faint blue color, whilst purposes. the micrococci, which are to be seen in the blood cells 
In obtaining this blood, every possible danger of ability to resist the destructive action of acids, alka- to the end of a glass rod, was used to convey a small lies, ether, etc., it would seem are sufficiently distinc- quantity of the blood which appeared at the point of tive to differentiate them from protoplasmic granules, puncture into the test-tubes, where the point was or the products of cell disintegration. An additional brought in contact with the surface of the jelly. The reason for regarding them as micro-organisms exists only chance of introducing air germs occurred durin the fact that they can and have been grown upon ing the short time the cotton plug was removed to culture media, outside of the body.

in the former. The test tubes, which had not previ- with the blood of dengue subjects; the blood used onsly been used for any purpose, were thoroughly was obtained from different individuals, and always ture of 400° F. for an hour. The culture medium organisms. which was used in all these investigations was that

culture media for the following reasons: organisms as require for their development elevated four hours. When this growth was examined under to a temperature of 100° C. (230° F.) for rigerous seen in the blood of dengue subjects. sterilization. Gelatine, on the contrary, is reduced. The uniformity of these results, in all the tubes inunder such conditions to a turbid broth, which re-oculated, in growing these micrococci, and never mains fluid on cooling. It is prepared by digesting other forms of bacteria, would certainly indicate that Irish moss-crispus chondrus-in beef broth.

ounces of lean beef, as fresh as possible, two quarts ally inoculated from the air, or by the platinum wire, of water, and sixteen grs. of table salt, to simmer for or through want of absolute sterilization of the tubes, four hours in an uncovered vessel, then close it and many other forms of bacteria and fungi would have boil for an hour, cool, and skim off the fat, neutralize been found growing on the jelly, and these tubes, carefully with carbonate of soda and filter.

was digested in one quart of the broth, at a tempera-cultures were continued from test-tube to test-tube ture short of boiling, the resulting decoction was for a period of six months. The method of perpetupassed through a colander to separate the swollen ating these pure cultures of the dengue micrococci, leaves, and then filtered through sterilized bolting was to inoculate in the manner described, the sterilcloth. It was then boiled for an hour, and whilst at ized jelly, in a fresh tube, from one which had previthis temperature the test-tubes were filled with this ously been inoculated from the blood, then a third jelly, by means of a sterilized pipette, to about half tube from the second, a fourth from the third, etc., their capacity; cotton stoppers were then introduced through many generations of the organisms. in the tubes, and these were subjected to a tempera- When it is considered that these culture investigature of 212° F. in a Koch and Grafiky sterilizing tions occupied a period of six months, and that durcylinder for an hour each day for seven successive ing this time many transfers occurred from test-tubes

angle whilst the jelly cooled, in order that as large a organisms from those contained in preceding tubes; surface as possible should be presented upon which that frequent microscopic examinations of the differ-

I think a better picture is obtained, and the rela- the organisms could grow and multiply. Many test the process of extraction is arrested before the cells subsequently subjected daily to the temperature of are entirely decolorized; they should then be mounted boiling water in the manner above described. These

and plasma, will be stained an intense blue. The introducing germs by accidental means was guarded inability of these organisms to hold the other aniline against. The method of washing the arm and sterildyes, acid or basic, to which they were exposed, their izing the needle with which the puncture was made, uniform size, their presence in the blood cells, their has been described. A small wire of platinum, fused allow the passage of the platinum wire; the wire, of In conducting these culture investigations, the same course, was heated to whiteness just before its use. care to guard against error in results was practised as Some twenty tubes of jelly were directly inoculated washed with soap and water, then in clear water, at their homes. These tubes were then put into an dried, and plugged with absorbent cotton; they were incubator, where the temperature was maintained then put into a furnace and exposed to a tempera- constantly at 100° F., for the growth of the dengue

Without a single exception every tube which had known as Miguel's lichen jelly; this was used in been inoculated in the manner described showed, preference to gelatine, blood serum or other solid upon the surface of the jelly at the point of inoculation, a white spot elevated above the surface of the It melts only between 55° and 60° C. (131° to jelly; this gradually enlarged and could be seen, 140° F.), which permits of the cultivation of such faintly outlined in the jelly, at the expiration of twentytemperatures. Ordinary nutritive gelatine melts be- the microscope, with a high power, it invariably fore 30° C. (86° F.). Second. It remains without alter- showed a pure culture of micrococci-which in color, ation or losing its power of solidifying when exposed size, shape and behavior, were identical with those

the matters of inoculation came from a common The broth is prepared as follows: Allow sixteen source, c. g., the blood. If they had been accidentwhen opened, would have had the odor of putrefac-In preparing the jelly, one ounce of Irish moss tion, which was not present in any of them. These

containing micrococci to those which did not contain After the last heating, the tubes were placed at an them; that each transfer removed by generations the

daily, and studied by means of Holman's life-slide. tube, and around the needle. The entire apparatus In the old cultures, those which were removed by as thus arranged, tubing and needle attached, and

cocci, which possess a deeper color.

cases they unite to form swarms or zoogloæ. These the arm. latter become more compact, the distinctions of the a microscopic slide. This arrangement can be seen, contained blood as the nutritive medium. whether the specimens are stained or not. The

of investigations of dengue blood are to me very dyes, before referred to. satisfactory and conclusive, inasmuch as the means adopted to exclude alien germs were, as far as I can was placed upon the cover-glass, this was then insee, absolutely perfect.

were used in these researches.

bulbs united and blown upon a capillary glass tube-Liebig's potash bulbs. To one end of this apparatus 1 to 300. In those specimens examined directly, the was attached a new hypodermic needle, by means field appeared to be covered with blood cells and of a short piece of new rubber tubing. To the other dark pigment granules; these latter were seen in imend of the glass tube (which was packed with cotton) was attached an aspirator.

ent series of tubes invariably revealed a pure culture, end of the tubing slipped over the free end of the e. g., without any other forms of bacteria; it would glass tube, and the end to which the hypodermic seem that the methods of sterilization employed had needle was attached was encased with a sterilized been successful in excluding alien germs, and that test-tube, this was held in its place and the needle those found had a common origin from dengue blood. protected from air germs by means of absorbent cot-The life history of these organisms was watched ton, that was packed firmly in the mouth of the test many generations from the blood, the organisms were covered with test-tube, was again put into the furnace smaller, less deeply colored, and less frequently en- and heated to 300° F. It was then removed from the capsulated, than those seen in the blood, or removed furnace and carried to the home of the gentleman from it by a few generations. When examined in who kindly donated a sufficient amount of his blood water without being stained, or in other fluid media for this investigation. He had a typical case of which possess a low index of refraction, the micro-dengue. His arm was washed with soap and warm cocci are seen in active movement (Brown movement), water, dried with a freshly ironed towel, and then a In those cultures which are removed by only a few solution of carbolic acid, sufficiently strong to quickly generations from the blood, the cocci are seen sur- whiten the skin, was applied to that part of the arm rounded by capsules. These are sometimes faintly where the puncture was to be made. A ligature was colored pinkish, and can be distinguished from the then applied to the arm above the elbow. The, test tube was removed from the hypodermic needle, and Two methods of generation were observed: The this was quickly passed into the large vein, at the first by fission; the organisms are seen to divide bend of the arm. An aspirator was then attached to through their centres; each coccus will thus form the free end of the glass tube-which was packed Frequently these newly formed or- with sterilized cotton—and the bulbs partially filled ganisms remain united together so as to assume with blood by means of aspiration. The glass tube, the form of a rod or chaplet; this indicates that they next to the rubber, was then closed and separated by belong to the class named streptococci. In other the blow-pipe, before the needle was withdrawn from

These bulbs containing the dengue blood, which cocci less, the color of the mass deeper, until they were effectually closed against the admission of all finally contract into corpuscular bodies, about the germs, and which contained no germs except those size of red blood cells; these often unite to form fil- which entered with the blood from the veins of the aments, which frequently assume the shape of a net-donor, were then put into an incubator at 100° F. work. This I have often seen when the culture was temperature, in order that a pure culture of the dengue thinned with distilled water and allowed to dry upon micrococci might be grown in the bulbs, with their

The first bulb was removed with the blow-pipe, and swarms and chaplets of the micrococci can be much examined at the expiration of six weeks. The blood better seen in the stained preparations. A histolog- was examined, first, directly, without admixture; secical stand, Abbe's illuminating apparatus and  $\frac{1}{12}$  H. I. ond. after treatment with glacial acetic acid, undiluted objective, manufactured by J. Grunow, of New York, and in weak solutions; third, with 10 per cent. solution of caustic potash and in weak solutions of this alkali; The results obtained in the following and last series and fourth, finally subjected to the various aniline

In the direct examinations, a small drop of blood verted upon a slide, so as to obtain for examination The apparatus used consisted of a series of glass a thin layer of blood; or the blood was examined in <sup>2</sup>3 per cent. salt solution or a solution of osmic acid mense numbers.

When the blood was examined in the salt solution, The following is the method used in sterilizing and or in the solution of osmic acid—this latter fixed the using this apparatus, viz.: The series of bulbs were cells, and by giving them a faint brown color, renfirst chemically cleaned, one end of the tube was dered them more distinct-it was seen that what then packed with absorbent cotton, and the bulb appeared as dark pigment granules in the direct exheated in a furnace for an hour at 400° F. The rub-amination, was now recognized as dengue micro-orber tubing, with the hypodermic needle attached, was ganisms, with all their distinctive features. The red treated with a 20 per cent, solution of carbolic acid, cells in many cases were absolutely crowded with washed in clear water, and exposed to the tempera- these, whilst in the plasma they were seen free, in ture of escaping steam for an hour, in the sterilizing swarms, zoogleea, masses, and in corpuscular bodies, cylinder. It was then dried in the furnace, the free which sometimes united to form filaments, as in the jelly culture. Cover-glass preparations of the blood, aniline stains.

the methyl-blue potash, was as distinctly manifested downward, upon the following solution, in a watch as in the fresh dengue blood. The only difference in 'crystal, viz.: the appearance of the micrococci as observed in the fresh blood and that obtained from the culture bulbs is this: The organisms, when stained, appear larger in the latter than they did in the former; this, I think, After a few minutes' exposure the preparation will be is due to the fact that in the culture bulbs they are found to present a deep orange color, which gives the more frequently encapsulated. When both cocci and desired contrast in a photographic negative. capsule are stained, the size is apparently larger.

later. They all contained pure cultures of the dengue which appeared many micrococci, while zoogleea and streptococcus, with disintegrated blood cells. These swarms are seen in the blood plasma. organisms were seen in zoöglæa, swarms, and in compact corpuscular masses; these were often united feel in not being able to complete these investigato form filaments. Normally shaped blood cells were tions. Zopf, Koch and others indicate among the found in only one of these last series of bulbs. I questions to be answered in a thorough study of any think their preservation in this bulb was due to a bacteria, the following: layer of coagulated serum which had formed over the surface of its contained blood. Many of the blood flagella, peculiar envelope, etc. Character and speed corpuscles in this bulb were more or less disinte- of movements. grated, those which retained their shape were clouded less extent. These, however, could be seen in great less spores, filaments, rods, cocci, "swarms." alkaline or acid solution, which rendered the cells ter of colonies formed in firm culture media. more transparent. None of the bulbs, when opened, had the least odor of putrefaction, and the only micro- tion. Character of decomposition products, volatile organisms which they contained were those peculiar and other, formed in various nourishing media. to dengue.

Pure cultures of these were found in each of the pressures. Behavior toward other gases. series of bulbs, and were seen in their various stages of development, e. g., with and without capsules, in germination, etc. swarms, in zoöglæa masses and in corpuscular shaped bodies, frequently united to form variously shaped erties). Behavior toward electricity. filaments. In these filaments the corpuscular masses, and often the cocci which formed them, could be seen

faintly outlined. tions. No one better knows than myself the incom- tures. If virulent, can the virulence be attenuated pleteness of this work, nor appreciates better the by exposure to air, to antiseptics, to heat, or by repossibilities which might have resulted from its con- peated "fractional" cultures. Under what conditinued prosecution. The want of time and facilities tions. Does the inoculation of attenuated germs for its proper execution prevented me from under-have a cumulative effect if repeated at short intervals. taking any additional labors in this matter. The Does one inoculation give immunity towards a second investigations were undertaken without bias, and the made with virulent microbes. conclusions arrived at are the result of careful, con-

or false must be decided by the future. Antonio, Texas, for excellent micro-photographs of labors, or under the auspices and at the expense of the dengue blood, obtained from the first culture bulb. State or Federal Government. In view of the bril-The zeal and patience displayed by him in this work liant results already attained by such investigations, are characteristic of the lover of science, while the i. e., the protection furnished, by inoculation with the excellent results obtained mark him as an expert in attenuated microbes, against the following diseases, these matters. Many efforts were made by him to viz.: small-pox, hydrophobia, anthrax, yellow fever, (?) photograph the specimens colored with methyl-blue; hog typhus and chicken cholera, it would seem a wise, success was attained only with those specimens which humane and economical policy on the part of the State ing micro-organisms, viz.:

A drop of sulphuric acid was placed upon the blood from this culture bulb, were subjected to the various dried upon the cover-glass; this was allowed to remain for a minute, and then washed off with distilled The indisposition to hold any of these dyes, except water. The cover-glass was then floated, blood side

Iodine			 	 grms. 3.
Iodide of	potassi	um	 	
Distilled w	ater			" 500

micro-photographs which he obtained from specimens The remaining bulbs were examined six weeks stained by this method displayed the blood cells, in

In conclusion, I desire to express the regrets I

1. Shape, size, color and details of structure, e.g.,

2. Character of natural habitat. Artificial media by coagulation of the cell protoplasm, which con-best adapted to growth and reproduction. Stages cealed the organisms they contained to a greater or of development passed through. Formation of zoognumbers, when the blood was examined in a weak ditions under which such formation occurs. Charac-

3. Capability of producing fermentation, putrefac-

4. Behavior toward oxygen at normal and altered

5. Effects of various temperatures on movements,

6. Behavior in relation to light (phototonic prop-

7. Behavior toward antiseptics and poisons.

8. Are the forms under investigation found in a diseased organ or tissue. What is the effect of inoculating This ends, at least for the present, these investiga- animals of different orders and species with pure cul-

It will be seen that the character of investigation scientious work. Whether these conclusions are true indicated by these questions could only be carried out by persons possessed of an abundance of time I am greatly indebted to Dr. R. Munger, of San and money, and a willingness to devote both to such were stained after Sternberg's method for photograph- or Federal Government to encourage, by money appropriation, such investigations. Among the probabilities which such investigations promise may be heir.

ated virus.

claimed by these gentlemen.

as certainly prevented by inoculation as small-pox and connective tissue. now is. It remains to be seen what contribution of ising system of preventive medicine.

## MANAGEMENT OF THE SECUNDINES.1

BY WM. H. WATHEN, M.D.,

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Medical Association in New Orleans, I read a paper apology for reading another to-day.

labor, and the subject is being extensively discussed the best mode of treatment.

chives de Tocologie, wrote exhaustive papers on this integrity of the amniotic sac. subject, the former advocating and the latter opposlieve expectation is pernicious, and who remove the at term. membranes from the uterus by expression, after the separate and remove them.

Nor is our profession agreed as to the mechanism reckoned the prevention of many, perhaps all, the of the separation of the membranes from the uterus. epidemic and contagious diseases to which man is It is argued that it may result from contraction or reduction of the placental area of the uterus, causing Pasteur has astonished the world with his protective a retro-placental clot at the centre or at the periphery inoculations. His latest and most wonderful achieve- of the placenta, which completes the separation; or ment is the immunity from hydrophobia which he from a relative inequality in the contractile or retracclaims is secured by inoculations with the attenu- tile powers of the placenta and membranes, causing a separation in the trabecular structures connecting Not less remarkable are the reputed discoveries of the decidua serotina and decidua vera to the uterine the yellow fever cryptococcus by Dr. Freire, of Rio musculature. Neither is there a settled conviction Janeiro, and Dr. Carmona, of Mexico, and the immu- as to whether the separation of the membranes occurs nity secured by inoculation with these organisms, as during or after the expulsion of the child. In an excellent paper on the "Anatomy and Relations of Other diseases and their specific microbes, notably the Uterus," etc., in the Edinburgh Medical Journal diphtheria and phthisis, are under investigation by of 1884, by Dr. Freeland Barbour, and from the experienced bacteriologists, and in this day of mar-investigations of Dr. Engelmann and others, it apvels, we may expect soon to hear that these also are pears conclusive that, when the placenta is well brought under the controlling influence of vaccination. formed, the musculature of the uterus is united to a In the light of this experience, I feel secure in compact layer of the decidua vera, decidua reflexa, prophesying that within the next decade, dengue and decidua serotina, and the chorion, by a spongy or many other contagious and infectious diseases will be trellis-like arrangement of enlarged uterine glands

The chorion and the amnion are seldom firmly knowledge will be furnished by America to this prom-united, though the union becomes more intimate toward the end of pregnancy, but at term the amnion may sometimes be easily dissected from the placenta. In the separation of the membranes the fundi of the glands with ciliated epithelium remain attached to the uterus and develop into new mucous membrane.

The formation of the placenta begins about the end of the second month, and it increases in size until the end of pregnancy, but in the latter months the One year ago, at the meeting of the American union between the placenta and uterus becomes less intimate. Until the formation of the placenta the in this Section on the "Treatment of the Membranes" embryo is surrounded by the amnion, the chorion, the in Abortion and in Labor," but I do not offer an decidua reflexa, decidua vera, and decidua serotina. But the decidua vera and the decidua reflexa do not Authorities in medicine do not agree as to the unite for several months after conception, and the management of the third stage of abortion or of amnion and the chorion are not in direct contact until between the end of the third and the end of the in this country and in Europe. At the meeting of fifth month. It is important to remember this, for the British Medical Association at Belfast, in 1885, it the feetus may be expelled in an unbroken sac at any attracted the attention of distinguished physicians of time before the sixth month-possibly in the sixth England, who failed to agree in many respects as to month—the placenta and other membranes being retained. In these cases the amnion has not reached Felsenreich, in the January, 1886, number of the the placenta, or is so loosely attached that it sepa-Wiener Klinik, and the great French obstetrician, rates easily, the umbilical vessels being torn between Professor Pajot, in the February number of the Ar- the amnion and the placenta without disturbing the

We will divide the subject into the treatment of ing expectation. Most physicians who leave the ex- the third stage in abortions before the beginning of pulsion of the membranes to nature are willing to the third month; then the treatment of the third remove the placenta when it is expelled from the stage in abortions from the end of the second month uterus, but there are some who refuse to do so when to the end of the seventh; and finally, the treatment it lies loose in the vagina. There are many who be- of the third stage in premature labor and in labor

Nature separates and expels the membranes by Credé or Dublin fashion, or draw upon the cord or contraction and retraction, the placenta presenting edge of the placenta; or if the membranes adhere at the os and coming away edgeways. This fact can introduce the fingers or a hand into the uterus and be demonstrated in nearly every case of labor by grasping the placenta in the hand as it is forced through the neck of the uterus. It is possible that in fundal implantations of the placenta, it may some-

<sup>&</sup>lt;sup>1</sup> Read in the Section on Obstetrics of the American Medical Association, at St. Louis, May 4, 1886.

period of pregnancy is controlled by physiological the nterns. These little membranes are generally contraction and retraction, and by the formation of innocuous, and will be separated and expelled withtrombi, or fibrinous coagula in the torn ends of the out causing dangerous complications. But if pregutero-placental vessels, which is favored by contraction nancy has continued until a placenta has formed, exof the muscular fasciculi, which surround the vessels pectation should not be practiced. If in abortions and contract their caliber.

lar contractions of the uterus. If, in abortion, the recurrence of hæmorrhage. woman shows symptoms of exhaustion or syncope, and bleeding continues, the shock in removing the usually be dilated or dilatable, and a finger or fingers membranes is not greater than that of tamponing the may be easily introduced into the uterus. There is vagina.

pectation was followed by the retention of the decidual means to dilate the os. Tents should, if possible, be membranes in 1.78 per cent. of cases, while in ex- avoided, and if the os cannot be dilated with the pression the per cent. was 2.3. But in all other re- fingers, Ellinger's dilator, or my modification of spects the results favor the immediate removal. Leanard's dilator, or Molesworth's dilator may be Post-partum hæmorrhage occurred in expectation in used. The operation is seldom difficult, and with the 5.78 per cent. of cases, and in expression the per patient anæsthetized, any part of, or the entire hand, cent. was 2.3. In expectation manual removal of may be introduced into the vagina, enabling us to the placenta was necessary in 1.33 per cent of cases, examine all the uterine cavity with the fingers and to and in expression in .64 per cent. Secondary hæmor- remove every part of the placenta and membrane. rhage followed expectation in 77 per cent. of cases, Hæmorrhage will then stop, and there will probably be

in patients treated by expectation.

wifery cases saw but one case of post-partum hæmor- retained. I fail to recognize a single fact to justify rhage; that occurred in a patient where a midwife expectation in the management of the third stage of had allowed the placenta to be retained three hours; labor in the latter months of pregnancy, and while I the woman died.

tained placenta, which were left to nature, sixty re- immediately after the child is born, I do not think the sulted fatally, and in 102 similar cases, where the placenta should be left in the uterus more than twenty placenta was removed artificially and timely, only four died, though some of them were in extreme ex- vagina immediately. haustion from hæmorrhage when the operation was

So long as a retained placenta is in the uterus or vagina the life of the woman is in jeopardy, and she into the vagina and gently drawing upon the end of may at any time be attacked with profuse hamorrhage, the folded placenta. With a reasonable degree of septicæmia, and pelvic cellular or peritoneal inflamma- care this treatment would neither cause septicæmia or fibrinous polypus may form in the uterus, or she result from criminal ignorance or carelessness in the may suffer from subinvolution, hyperplasia, etc. Several women in Louisville have died within a few of the child there is no necessity for attempting exyears from septicæmia, with pelvic peritoneal and pression until the uterus contracts in an effort to excellular inflammation, or hamorrhage, caused by a pel the placenta. We should then follow the Credé retained placenta.

ways exogenetic in its origin, but we know that a hand over the uterus to see that it does not relax, decomposed retained placenta is a prolific cause of and to encourage it to contract by kneading, massage, the disease, and that its removal or disinfection is the or expression, if it fail to do so otherwise.

times present by its feetal or amniotic surface with its only rational treatment. In abortions before the end long diameter in the os; or pulling on the cord of the second month, if hemorrhage ceases, no effort may so invert the placenta as to cause the same should be made to remove the membranes, unless they protrude into the vagina and can be taken away Hæmorrhage in the third stage of labor at any without introducing the fingers or instruments into after the second month the placenta is not expelled In abortion after the eighth week, in premature in twenty or thirty minutes, it should be removed, labor, and in labor, the membranes should be removed, unless the woman is threatened with collapse or synwhether separated or adherent, when they are not cope from hæmorrhage, and when, from the absence expelled within twenty to thirty minutes, and they of arterial pressure, hæmorrhage has stopped. We should be removed sooner if we are not apprehensive may then wait until she has recovered from shock, or of hæmorrhage, retention of the placenta, or of irregu- until there is decomposition of the membranes, or a

If the operation is done without delay the os will no instrument that can be substituted for the fingers, In the statistics of Dr. Weir, of Copenhagen, ex- though it may sometimes be necessary to use other and expression in 32 per cent.

Mr. T. M. Watt (Hovingham) in a large experience should be thoroughly disinfected, but this should be has seen no cases of post-partum hæmorrhage except done in every case of delivery. In premature labor and in labor at term, the placenta is more easily sep-James P. Nevin, of Ballymoney, in over 200 mid- arated than in the earlier months, and is less frequently do not believe it usually necessary to supplement or Prof. Pajot's statistics show that in 68 cases of re-supplant nature in an effort to remove the membranes to thirty minutes, and it should be removed from the

The membrane can generally be removed by jndicious expression during labor pains, but if this fail we may assist expression by introducing some fingers When she has apparently recovered a placental nor invert the uterus, and such accidents could only physician. Unless uterine inertia follows the birth method, being careful to express only during a con-It may be urged that puerperal septicæmia is altraction. But it is always safe treatment to keep a

Credé reports that he removes the membranes in the birth of the child. He distinguished between four and one-half minutes after the child is borne abortions the result of natural processes, and those with universally gratifying results, and Garrigues has induced by medicines and instruments. In induced also removed them in from ten to twenty minutes in abortions, it is necessary to practice rigid antisepsis, 400 or 500 cases with excellent results. But it is and the prognosis is less favorable. In so-called better to give more time for the membranes to separate and for coagula to form in the mouths of the and intrauterine irrigation is certainly not indicated. vessels. A little delay will do no harm, and will be less frequently followed by retention of decidual shreds. If the placenta cannot be separated by expression then it should be separated carefully by a hand introduced into the uterus. If the membranes are imprisoned in the uterus by contraction of the circular fibers of its lower segment or in its entirety, the neck should be dilated with the fingers, and the indicated with a mixture of iodoform, carbolic acid, placenta separated and removed. We should always have a hypodermic syringe charged with ergot for inal irrigation with a corrosive sublimate solution, any emergency, but I no not believe that ergot should (1:2000). It was necessary to employ bichloride of be given until the membranes are expelled.

#### DISCUSSION.

DR. FULLER, of Maine, after an experience of thirtyeight years, was in favor of prompt placental delivery, and congratulated the author of the paper upon his method of managing the secundines, and hoped that he would continue in his opposition to expectation. He is usually able to express the placenta in cases of labor at term within five minutes after the expulsion of the child.

In abortions the membranes can not be gotten away so readily, but they should be removed as soon as possible.

DR. WILLIS P. KING, of Sedalia, Missouri, had seen 719 cases of labor at term and an unusually large number of abortions. He removed the placenta promptly both in labor and in abortion; at term by Crede's method of expression, and in abortion, if the os is contracted, he practiced rapid dilatation with the finger or steel dilators. When the finger, hand, or instruments were introduced into the uterus, and in lacerations of the genital tract, he used hot intrauterine injections of a solution of corrosive sublimate (1:4000). He had not seen a case of septic infection for several years.

Dr. C. R. REED, of Middleport, Ohio, believed in immediate delivery of the placenta. In nineteen minutes after the expulsion of the child.

early evacuation of the carum uteri.

DR. JOHN MORRIS, of Baltimore, advised the early phobia even when exposed to very bright light, the removal of the placenta. He never allowed the removal of the placenta. He never allowed the 1 Read before the Chippewa Valley Medical and Surgical Associa-placenta to remain longer than twenty minutes after tion at Eau Claire, Wis., May 11, 1886.

"natural" abortion antiseptics are seldom required, He never gave ergot before the uterine cavity was emptied except in cases of "bleeders."

Dr. French, of Minneapolis, desired to enter a protest against the indiscriminate use of intrauterine irrigation. He had recently observed a fatal termination of a case in which the uterine cavity had been irrigated. He now swabs out the cavum uteri when and glycerine. He had seen bad results follow vagmercury with extreme caution-if at all.

#### CORNEAL ULCERS.1

#### BY J. W. THOMPSON, M.D., OF ST. PAUL, MINN.

I shall occupy as little time as possible with that material relating to corneal ulcers which you can find and read at your leisure in any standard work on diseases of the eye. Such works are numerous, and I dare say each one of you possesses one or more of them in your library, and that many of you are quite as conversant with the subject matter of them as I am. They all relate nearly the same story, excepting little differences here and there of minor importance. From them you have learned that ulceration of the cornea is the result of disturbed nutrition, and that this may be produced: 1st, by a vitiated or improper state of the blood; 2d, by an irregular and deficient supply of the blood; 3d, by a disturbance or a loss of the nervous influence; and 4th, by an unnatural state of the cornea itself.

It is especially rare, however, in practice to meet with cases that illustrate exclusively any of these pathological conditions except the one resulting from a disturbance or a loss of the nervous influence. I have seen very meagre mention of this being ascases out of twenty he was able to deliver the signed singly as a cause of the ulceration of the corplacenta by Crede's method and traction within five nea in any of the numerous and well-written textbooks on the subject of ophthalmic surgery. This DR. W. W. POTTER, of Buffalo, New York, said may explain the fact that the nervous origin of corthat the terms utcrine massage and Crede's method neal ulcers has been too frequently overlooked even were sometimes employed as synonyms. Suprapubic by excellent observers. But I think when the attenpressure was not Crede's method. Crede, in 1853, tion has been once directed to it, the symptoms are aid that your fingers must be forced behind the cor- very plain, peculiar and characteristic, and will scarcepus uteri, the thumb over the anterior wall, and the ly ever elude the attention of even a superficial obplacenta must be expressed just as the stone of a server. The extent, occupying as I have seen it in cherry is pinched out. He did not believe in traction a very few instances, the anterior surface of the globe on the cord, but when the traction is slight no harm and the conjunctival sac, the dusky, purplish appearusually results. He called attention to numerous second end of the conjunctiva, the marked absence of the quele of abortion, and to the importance of effecting secretion, the dry and leathery appearance of the entire surface of the cornea, the absence of photo-

almost or quite complete anæsthesia of the cornea appearance. The cornea was dry, leathery and nearly and the conjunctiva, and the entire absence of pain, opaque. In the centre there was a superficial ulcer form a picture the impression of which will scarcely with sharp, well defined edges. There was entire be forgotten. It is useless for me to speculate as to the exact nature and locality of the pathological con- that the finger could be rubbed all around in the ditions that give rise to this lesion of the eye. It is conjunctival sac and over the cornea without proa fact pretty conclusively demonstrated by experi- ducing any discomfort. There was complete anæsmental physiology, that the removal of the superior thesia of all the parts supplied by the cutaneous cervical sympathetic ganglion produces disturbance nerves of the ophthalmic division of the fifth. of the nutrition of the eye, and especially of the cor- course, the affection of the eye for which he especialnea. But whether it be through the direct influence ly consulted me was quite beyond the resources of of the sympathetic or whether it be through the loss any known means of relief. The destruction of viof the action of this nerve on the fifth or the trifacial, sion in this eye became complete in a few days. The has not been very clearly determined. It is, how-ever, a well established fact that a division of the fifth does produce a very decided disturbance of the nated fatally. An autopsy could not be obtained, nutrition of the cornea, and the entire conjunctival and therefore the nature and origin of the brain le-

In the case that I will relate I was unable to trace the origin of the nervous disturbance beyond the call the attention of the profession to the use of a fifth, or tri-facial, since the case had been under pro- certain astringent, not for the purpose of extolling it gress for several days before my advice was sought. but rather for the purpose of condemning it, and my I have selected this case out of the few that I have experience with it teaches me that I cannot condemn had an opportunity of seeing, because it is typical it in terms too severely. It is an astringent too that and furnishes a more pure and uncomplicated illus-is recommended promiscuously in every form of con-tration of nervous disturbance in the production of junctivitis by all the modern works on diseases of the corneal ulceration than any other that ever came under my observation. The patient was a blacksmith remedy and perhaps one of the most reliable astrinby occupation, about 50 years of age. For a period of nearly thirty years he had been a very industrious a writer on this subject who has not spoken of it in laborer, and all this time he had scarcely known a terms of praise in conjunctivitis. I have treated a day of illness prior to the affliction for which he great many cases of conjunctivitis, and it was a very sought my advice. He related that about a fortnight common practice for me to combine this astringent since, after a disturbed and restless sleep, he awak- with other astringents. I regarded it as one of the ened in the morning with a pain in the left temple safest and most reliable remedies that could be apand side of the face, and slight dizziness. He went plied to an inflamed conjunctiva. Had it not been to his shop, however, and continued to work uninter- for a custom that 1 long since adopted in my ophruptedly through the entire day. The pain during thalmic practice of keeping a pretty complete record the day became more tolerant at times, and he thought of my cases, I should, perhaps, have been employing it to be only an ordinary attack of neuralgia, and the same old astringent to day with all the evil rethat it would pass away under the influence of some sults it is capable of producing. In all cases of condomestic remedies which he would employ in the junctivitis it is a very common custom to inspect the evening. The next morning there was, in addition cornea closely before prescribing an astringent. I to the pain, a prickling sensation, and the dizziness was many times chagrined that within twenty-four or was somewhat increased. He felt some alarm about forty-eight hours after I had prescribed an astringent his condition, and sought the advice of his family for a simple conjunctivitis, to find in the periphery physician, who gave the case a pretty thorough ex- of the cornea one or more minute ulcers. It did amination, and concluded that if it was neuralgia it not seem possible that they could have escaped my was a very extraordinary case.

alarming, and he soon began to observe some circum-the cause. I consulted my records very carefully corneal injection of the left eye, which was at first and discovered that no case of ulceration had ocsomewhat sensitive to the light. This, with some curred in any of my cases of conjunctivitis where a slight increase, remained several days. To follow simple astringent had been employed without alum, his description, as the dizziness increased the pain and that in every case where ulceration followed, diminished, and the face drew to the right side. The alum had been prescribed singly or in combination facial paralysis was complete both as to motion and with some of the other sulphates. This seemed evisensation. The vision of the left eye began to be dently the key-note to the ulceration. I at once hazy. The haziness increased rapidly, and when he procured the fresh cornea of a hog's eye, cut it into consulted me he was scarcely able, with this eye, to small pieces and immersed them in a solution of determine the location of the window in my office. alum of various strengths, and in every instance, at The ocular tunic was quite vascular, with a consid- the end of twenty-four or thirty-six hours, I found erable amount of chemosis about the cornea. The all the cementum of the cornea dissolved and noth-

sion was left somewhat a subject of speculation.

In connection with ulcers of the cornea I wish to detection the day before. There seemed to be some-In short, his symptoms continued to grow more thing wrong, and I determined if possible to learn entire conjunctiva presented a dry, glossy, purplish ing but the stroma and the anterior and the posterior

elastic lamina remaining. I have verified this a num- cunæ traversing the cornea, the dilated nodal points

of the cornea in conjunctivitis have ceased to annoy cles. The contours of this canalicular system are orrheal. This statement in regard to the action of rent is retransmitted." alum may seem a little incredible to some, but I only ask them to subject it to a fair, impartial test, and I have no hesitancy in saying that their infidelity will be cured, and alum will no longer find a place in their ophthalmic therapeutics.1

Herpes of the cornea frequently degenerates into chronic ulcers. When this occurs in a child it is a scrofula or a scrofulous taint, and if the child should scrofulous predisposition. The fact is, herpes that through life.

of which are occupied by the nucleated, central por-I have long since discarded alum, and ulcerations tion of the radiating and contractile corneal corpusme. In those cases in which alum had been used rendered visible by the electrical current, because it without producing ulceration, the anterior elastic occasions the retraction of the corneal corpuscles lamina had been intact, but if there had existed a from the walls of the cavities in which they are conminute break in the covering and the alum had had tained. In all such cases the nucleated masses of a free access to the proper substance of the cornea, protoplasm may be seen surrounded by a transparent it had invariably formed an ulcer. Every valuable area, and with small spikes projecting from its surtext-book on ophthalmology that I have been able face, which are the retracted arms. The appearances to consult, recommends alum in high terms not only described vanish if the shock is not repeated. They in simple conjunctivitis, but also in purulent and gon- can, however, be made to appear again if the cur-

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# MEDICAL PROGRESS.

ELECTROLYSIS IN THE TREATMENT OF STRICTURE. very common practice to charge it to the account of At the meeting of the Royal Medical and Chirurgical Society on May 25, Dr. W. E. STEAVENSON and be a healthy subject, it is said to be due to a latent MR. W. BRUCE CLARKE read a paper on this subject. The more extensive use made of electrolysis in surgso frequently degenerates into small corneal ulcers ery and gynacology abroad, and especially its sucis, as a rule, "not the localization of a blood dis-cessful employment in the treatment of stricture of ease," but rather the scrofulous appearances are the the urethra, had induced the authors to undertake a result of the herpes and ulceration. The enlarge- series of observations to test the accuracy of the rement of the concatenated glands of the neck are, in ports which had reached this country. Their results a majority of cases, nothing more nor less than a re-bore out in every particular the results of success they flection from the ulceration, just as a "felon on the had received from America. Electricity, on account finger may produce an enlargement of the axillary of its power of splitting up compounds into their glands." These little cavities or ulcers formed from chemical elements, could be used as a substitute for the degeneration of the herpes, under a proper treat- ordinary caustics to the human body. It could be ment, fill up with transparent cornea, and every trace used with especial advantage to parts difficult of acof them may be lost. Sometimes the newly formed cess, such as the male urethra and the uterine cervicorneal tissue is cloudy at first, but subsequently cal canal, and it could also be applied to these and clears and becomes entirely transparent. Occasion-clears and becomes entirely transparent. Occasion-clears ally, however, I have seen them fill with a kind of was attended with a certain amount of danger. Its chalky material that becomes a fixture and remains effects could be limited to the points touched by the electrode. The caustic effect could be arrested, or Pathology teaches that in the healing of corneal not commenced until the applicator, in the form of ulcers new cells must be formed to take the place of the electrode, was in situ; and the duration and exthose that have been detached and destroyed. It tent of the caustic action were entirely under the has been somewhat conclusively shown that the new control of the will of the operator. The treatment cells are derived from a finely granular blastema of stricture of the urethra by this method was the which changes into protoplasm, and that in this pro- most simple, and perhaps the most striking in its retoplasm new cells arise by a process of free cell-form- sults, and had, therefore, been selected as the first ation. "Again, Alexander Rollett maintains that on which to collect and report observations. In this this corneal protoplasm is contractile. He arrives at paper, the details were given of six cases of stricture this conclusion by experiments upon the fresh cornea of the urethra treated by electrolysis, the *modus op*of a frog. He submitted it to the action of electrical crandi was explained, the steps of the operation were currents. Before the passage of the current the corgiven, and the advantages of this method of proneal tissue seems to be homogeneous, or with only a cedure were summed up. There was usually no few radiated corneal corpuscles scattered through it. bleeding. If hamorrhage did occur, it was accidental, Immediately after the excitation, elongated and and usually showed that too strong a current had been sinuous, fusiform, elliptical, and round, clear figures used; no anæsthetic was required. If pain or dismake their appearance. These are nothing but the comfort were produced, it was trifling. The patient optical expression of longitudinal, oblique or trans- could, in the case of slight strictures, pursue his orverse sections of the communicating system of la- dinary occupation during the period of treatment. No antiseptics were required, as the process itself was aseptic. In the majority of cases, there was no contraction or return of the stricture. Eschars pro-

<sup>1</sup> Those who may have observed this peculiar action of alum on the cornea will confer a favor on the author by communicating the fact, either by letter or otherwise.

access in a way which was impossible by any other gated in hospital cases. method. Probably, other chemical decompositions made out.

paper, but was sorry to say that he could not find the himself to attribute the results embodied in the paper conclusions of the authors quite satisfactory. The to the dilatation, not to the electricity; else why cases had been related, after the manner of the was it found advisable to use gradually larger and American writers on this subject, without enough de-larger electrodes? Even pressure, without passage tail as to the size, nature, and position of the stricture. of a catheter, often did much to facilitate the passage One case had suffered from stricture, more or less for of urine. He had considered Dr. Newman's cases twenty years; he had often been relieved for a time with some care, and could not help calling attention by ordinary dilatation, and then had slowly relapsed. to one remarkable point in them, that they were, The relief given by Dr. Steavenson and Mr. Bruce every one of them, successful. Clarke dated only from about eight months ago, and DR. STEAVENSON was not familiar with the endohe expected that his discomforts would return; at any scope which Mr. Berkeley had shown. In Mr. Hill's rate, at present, there was no proof of a cure. It cases, he understood there had been puncture, and he was universally admitted that, by patient pressure, a certainly was not surprised, that contraction had follarger catheter could be passed; but he thought the lowed. They had used bougies, of gradually increasauthors had hardly made due allowance for this in ing size, to keep in contact with the walls of the their account of the increased size of the electrical urethra. bougies passed, which might perhaps be due to patience as much as electricity. He had himself care- to meet the two chief objections that had been urged; fully considered the American cases that Dr. Newman that the cases were not really of organic stricture; had published, and had followed his plan in treating and that they were not really cured. As to cure, he one case of his own. There was stricture two inches was bound to admit that the operations had been and a half from the meatus, probably behind an old performed last August, and not treated since; they urethral abscess; he could see clearly with an endo-scope, which he was sorry the authors had not used. time could prove their ultimate cure. As to the point He passed a needle, which formed one pole of the that they were spasmodic strictures, he could not adelectric circuit, into the scar-tissue, and could see, mit it; in one of the cases, there had been extravawith the endoscope, that nothing more happened than sation of urine; at first, nothing could be introduced, the occasional liberation of a bubble. The patient but after electrical treatment, he could pass No. 11 felt no pain at all, except on making and breaking (English), and that was a success as great as any the current; he measured the currents strength by the after a cutting operation. patient's feelings. After fifteen minutes application of the current, he found the stricture enlarged from Interest in the subject was first aroused by one of 19 to 20 of the French scale. After further treat- the daring attempts of American surgery, made by ment, in the same manner, it gradually contracted from Dr. R. Newman, of New York, who published, about 20 to 16; and as cure semed very unlikely by such a process, he resorted to other methods, and found no of Urethral Stricture treated by Electrolysis, without difficulty in widening it.

with the help of Dr. Steavenson. He had first seen of human nature, if there had been one or two rethe patient two and a half years ago, when he found lapses. The fashion of operating admits of many three strictures, two penile and one subpubic, of size small variations; but the essential points are, that one No. 12 (French); these he gradually dilated to No. pole of the battery shall be of metal, and in contact 25. For two years, the patient was lost sight of, and with the surface of the stricture, and the other widely then returned with three strictures, distant ½ inch, spread out by means of a pad over a considerable 4 inches, and 5½ inches from the meatus, admitting surface of the body, the back or elsewhere; and that only No 4 (French). Dr. Steavenson applied a No. between these poles a current of considerable strength 3 electrode and current of from 5 to 8 milliampères; should be passed. It is found most successful and this did not pass; but the flow of urine was improved, least uncomfortable that the negative pole should be and a few days later, a bougie, No. 10, could be in contact with the urethra; the positive, with the passed; and, after a few weeks under electrical treatment, a bougie No. 26 steel or No. 28 pewter, could enough to act upon the stricture without giving any be admitted. Whether it was to be called strictly a discomfort, except, perhaps, at the moments of mak-

duced by caustic alkalies were said to heal with less cure or not, it was certainly satisfactory in enabling contraction than wounds produced in any other, and the patient to get about and to do his work; and his electrolysis with the negative pole of a battery was a case was a bad one, which would otherwise have means of applying the same destructive action as needed treatment with an Otis's dilating urethrotome. was caused by the caustic alkalies to parts difficult of He hoped the treatment would be further investi-

MR. G. BUCKSTON BROWNE thoroughly agreed that and combinations took place at the negative pole be- it would be a very good thing if the practised hands sides those characteristic of the caustic alkalies, but of the seniors in the profession could be brought to they had not, up to the present time, been thoroughly try this method; for there was hardly any point in which more experience was needed than in estimating MR. BERKELEY HILL was much interested by the and accurately diagnosing stricture. He was inclined

MR. BRUCE CLARKE said he had been quite prepared

The British Medical Journal, also says editorially: eighteen months ago, Tabular Statistics of 100 Cases Relapse. It would have appealed, perhaps, even MR. F. SWINFORD EDWARDS had treated a case, more strongly to those who believe in the fallibility

ing and breaking. What the exact action of the cur- are much less likely to be affected than men. Though rent upon the cicatricial tissue may be, we are hardly the female sex in general enjoy a marked immunity, in a position to say, though the actual watching of yet in the puerperal state they are very liable to take the process by means of an endoscope, as practised the disease. It is but seldom that traces of albumen once by Mr. Berkeley Hill, may throw more light upon are found in the urine. Partial paralysis of the musit. It is covered, at present, by the word "electro- cular walls of the bladder is occasionally to be met lysis," of which, when applied to fibrous tissues, we with. No mention is made of the multiple neuritis, must admit that the limits are somewhat indistinct. At any rate, it is alleged that not only does the resistance of the stricture give way, but that more or less of the tissue which forms it is turned into a slimy mass of broken-down epithelium, and so disappears, without leaving a contracting cicatrix. The à priori impression is certainly strong that, where tissue has disappeared, there must be a cicatrix; and that, if there is a cicatrix, it must contract sooner or later. Those who have practised electrolysis will gain a much more attentive hearing and a more zealous following when they can show a longer maintenance of good results than the eight months which have elapsed since Mr. Bruce Clark's operations. When the malady is chronic, it naturally needs a long time to judge of the cure; but, at the same time, the habits of scars, due to different causes, are known to vary greatly in contraction, and it is possible enough that there may be less contraction after electrical action than any other, even than those from caustic alkalies. And, further, we are not yet experienced enough to assert how completely similar or dissimilar to an ordinary cicatrix this process of electrolysis may be. That it deserves trial from the older and most skilled hands, there would seem to us little doubt; and we can imagine it most convenient that the electrical necessaries should be managed by the younger students of that somewhat difficult class of instruments.

of which so much has lately been written in England. -Lancet, May 8, 1886.

Paralysis of Laryngeal Muscles.—The generalization so strongly upheld by Dr. Felix Semon, that the abductor muscles of the larynx are more prone to paralysis than the adductors does not carry us a great way, but it is very useful as a step to further knowledge, A general cause acting on the recurrent laryngeal nerves appears always to paralyze or weaken the abductor muscles before or more than the adductor. M. Charazac records a case in the Revue Mensuelle de Laryngologie of cystic goitre associated with unilateral paralysis of the adductor muscles of the larynx consecutive to compression of the right recurrent laryngeal nerve. During expiration the larynx appeared to be perfectly healthy; the vocal cords left the middle line in a natural manner, so that the glottis presented its normal triangular outline. But during phonation the left vocal cord closed up to the mesial line in good form, but the right did not approach its fellow. We think M. Charazac lays too much stress on his single observation, supposing that to have been a true one, and not to be explained by other causes than the one to which it is attributed. So far the generalization to which we above referred seems to have been confirmed and strengthened by numerous and carefully observed cases. - Lancet, May 22, 1886.

FALSE JOINT FROM A FRACTURE IN INFANCY.—M. Beri-Beri.—An industrous investigation of some Berger recently showed a very interesting specimen of the circulatory conditions that obtain in the Japa- at a meeting of the Société de Chirurgie of Paris. nese "kakké" or beri-beri has been undertaken by It consisted of the lower limb of a man 57 years of Dr. Wallace Taylor, with the production of some age, who had received a fracture of both bones of the valuable results. In none of the cases was there or- leg when only nine months old. This was followed ganic disease of the heart or arteries, and no func- by the formation of a false joint which prevented the tional derangement other than that attributed to the man from walking. The upper fragments of the influence of the "kakké." Sphygmographic tracings tibia, and fibula were rounded off, and fitted into cuprevealed a very sudden and high upstroke, with precipitous descent from the apex of the percussion wave and marked dicrotism. The first deviation of granulation tissue (not cartilage), and were held tethe circulatory system in kakké from the normal is gether by a capsular ligament continuous with the one of cardiac excitement. There is also diminished periosteum and lined by a true synovial membrane. tension, due to loss of arterial tone. The chief causes The knee and ankle were not anklosed, as is often of danger in the acute disease are found in the im- the case in such conditions. The whole limb was unpaired condition of the heart and enfeebled circula- developed, as the following measurements on the tion. The extent, however, to which the heart and two sides show: Length of foot 18 centim. as comvaso-motor system are affected in the disease is liable pared with 24 centim.; length of patella 5.0 centim., to relatively large changes. Dr. Taylor considers instead of 6.0 centim.; length of femur 36 centim., that all the conditions of the heart and arteries can as against 39 centim. The muscles were not degenbe explained by the action of the materies morbi of erated; the nerves to the naked eye were healthy; kakke upon certain portions of the cerebro-spinal but the skin over the toes was the seat of aæsthesia nerves and sympathetic system. Age exercises con- and local asphyxia. The question raised by M. siderable influence over the occurrence of the disease, which is most common between 16 and 28 years of were the results of the "false joint," or whether they age. One attack of kakké appears to render the paland it were both due to one obscure trophic affection more liable to subsequent affection. Women tion.—Lancet, May 8, 1886.

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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## THE BLOOD-PLAQUES AND COAGULATION.

the blood, including the blood plagues.

between the fibrin-threads and the granular masses, as centres." but Schultze thinks that the threads do not proceed

and Löwit, after a careful study of the coagulation of lymph under the microscope, has found nothing that can be regarded as leucocyte detritus. The generally accepted view as to the granular masses, then, is that they are formed by the plaques.

In the very careful study made by Kemp he found that the formation of the granular masses by the plaques may be seen in the following manner: The finger is pricked and a good-sized drop of blood is squeezed out. This is taken immediately upon a cover-slip, and then as quickly as possible most of it is washed off by a jet of a 75 per cent. NaCl solution from a wash-bottle. The cover-slip is now placed on a slide, and transferred to the microscopic stage as quickly as possible. The plaques have the property of sticking to the slip, while the other elements are easily washed away by the jet, so that upon examination the whole field will be seen to be filled with plagues, some of them isolated, but most of them grouped in masses consisting of from two or three to In the last number of The Journal we attempted a dozen or more. They are now not pale and homoto give some idea of the blood-plaque, and showed geneous, with a symmetrical outline, but appear glisthat while there is very strong evidence that it is an tening and granular, and their contour, instead of independent element of the blood, there are also being regularly oval or circular, has become jagged. strong reasons for believing that it is what Hayem These changes are the more marked the longer the terms an hæmotoblast, or young red corpuscle. But time which has elapsed before the preparation is obwhich of the theories be held matters but little in served; and they may be seen to take place step by considering the relation of the plaque to the process step while the observer watches the preparation. of coagulation. This however, is best prefaced by The plaques continue to undergo changes in form, some account of the histology of the formation of until finally when they are grouped together only a fibrin, and its relation to the histological elements of granular mass is found, and the individual plaques can no longer be distinguished clearly. "Pari passu In the study of the formation of fibrin under the with these changes processes are seen which run out microscope it has long been noticed that the fibrin from the granular masses; and when coagulation sets filaments spread out as rather distinct rays from the in these processes are nearly always found to be minute aggregations known as Schultze's granular continuous with threads of fibrin. The threads of masses. This was noticed by Schultze, and by Ran- fibrin are sometimes deposited as long needle-shaped vier in 1873, who regarded them as centres of coag- crystalloids which are often seen lying free in the ulation; and also by Riess, Hayem, Leube, Bizzozero field, and not connected with the granular masses; and others. Ranvier, Davidson, Bizzozero and Halla but the greater number are formed most thickly think that there is a distinct and direct connection around these masses, from which they often radiate

Kemp has found that when the blood-plasma is from the masses, but pass over or through them, very much diluted but little fibrin is formed. "Un-Heyl, having observed that in Bizzozero's fluid the der these circumstances the field is comparatively number of granular masses increases as the leuco- clear, and it can then be seen that no fibrin proceeds cytes decrease, and that both the granular masses from the leucocytes, but all comes from the plaques, and lencocytes stain with methyl violet, has drawn or is deposited freely in the field." Hayem and the unwarranted conclusion that, on the assumption Schimmelbusch have pointed out that fibrin may be that the leucocytes break down during coagulation, formed elsewhere than around the plaques, and this the granular masses are derived from the leucocytes. view has been confirmed by Osler; though Bizzozero This view has received the support of Hlava and has stated that fibrin is deposited around the plaques Riess, but is denied emphatically by Osler and Laker; and nowhere else. Osler says in his third lecture

that it may be noticed that fibrin appears quite inde-lin favor of a crystallization; while the subsequent pendently of the plaques, particularly if healthy blood toughening and contraction of the threads show a be examined in which plaques are not very numerous. clear resemblance to the coagulation of certain pro-When there is an abundant formation of fibrin the teids, notably myosin. In fact, it appears that we network of threads is seen all over the field, and have in blood an interesting process which may be every spot is full of fibrin; but when the fibrin is not regarded as intermediate, in a certain sense, between abundant it will almost always be seen that the fibrin a true crystallization on the one hand, and the coagis thickest in the vicinity of the masses of plaques. ulation of certain proteids, as myosin, etc., on the "Even in preparations where the fibrine is sparingly other. Hence Kemp thinks it evident that there is formed, the threads are deposited elsewhere than no histological connection between the plaques and around the granular masses, and occasionally, though fibrin, so that if the former are involved at all in rarely, I have found granular masses around which coagulation the connection must be a chemical one; the fibrin did not appear to lie more thickly than in other words, the plaques must give up something in the clear field. The fact that nearly always the to the plasma at the same time that they break down. fibrin is deposited most thickly around the granular But the strongest evidence of a connection between masses, even radiating from them as centres, while the plaques and coagulation is derived from facts interesting and significant, is not conclusive proof pointed out by Hayem, Bizzozero, Lavdovsky, Halla that the plaques are connected with coagulation; for and Ferraro: that fibrin is formed pari passu with the same adhesive property of the plaques which the breaking down of the plaques; and that reagents makes them adhere to each other, may also cause the or conditions which retard the breaking down of the threads of fibrin to stick fast as they separate out plaques, retard to precisely the same extent the formfrom the medium around them. This seems all the ation of fibrin; and reagents which preserve the more probable when we consider that the fibrin as plaques prevent the formation of fibrin altogether. well as the plaques is sticky and adheres to the glass" Kemp's observations, so far as completed, confirm (Kemp). The fact that in preparations in which the these facts in every respect. clot is scanty the fibrin is deposited more thickly in The question now arises, what part do the plaques the vicinity of the masses of plaques may possibly play in the process of coagulation? Hayem and be due to the plaques giving up something which Bizzozero think that their part is to furnish something causes or hastens coagulation, and that in dilute so- essential to coagulation, and they agree that ferment is lutions this substance is more abundant in the vicinity in all probability the agent in question. Now, in some of the granular masses than elsewhere.

experiments Kemp noticed that blood flowing through Laker has taken the ground that the fibrin-threads a dirty tube coagulated more quickly than in flowing are folds of a membrane which he calls the primary through a clean glass tube; and he thinks that this fibrin membrane; a view almost identical with that would seem to show that in passing through the dirty taken by Virchow in 1856. Kemp concludes that tube the blood took up something which brought what Laker describes as a membrane is a layer of about coagulation before the plaques broke down, the homogeneous substance described by Virchow, but which is also formed later by the plaques when Rindfleisch and Hermann, which is essentially of the they break down. And from what we know of coagusame composition as fibrin, and from which the fibrin- lation at the present time, he says, it seems probable threads are formed by a process very closely resem- that the agent in fibrin-formation that would be more bling crystallization, if not identical with it. Hermann likely to act in this manner is the ferment. Osler thinks that the threads are formed by a process which has examined the relation of the blood-plaque to coclosely resembles crystallization, and Schimmelbusch agulation experimentally, and his results are very ininsists most positively that the formation of fibrin-teresting. If an ordinary ligature, partly teased out, threads is a true crystallization process, nor does he be passed through the femoral vein of a dog and albelieve that there is a previous stage, either homoge-lowed to remain for five or six minutes, or less, the neous or granular. Hayem, though not believing in | threads become coated with the plaques; and the the fibrinous character of the plaques, compares the same coating of plaques may be obtained by whipformation of fibrin to a sort of crystallization starting ping freshly drawn blood with a bunch of threads, as from small crystals already formed. Kemp says: in Bizzozero's experiment. The threads are then The definite form which the fibrin-threads take, es- carefully washed in a saline solution, by which the pecially the typical needle-shaped form of the threads red corpuscles are removed. If the threads be then when deposited isolated in scanty clot, speaks strongly dipped into a coagulable solution clotting occurs.

But Rauschenbach criticizes this experiment by say- "METAPHYSICIANS," "FAITH-HEALERS," AND ing that the threads may have absorbed ferment which was not washed away; and that the coagulable fluid used by Bizzozero is only a test for free ferment, the police power of the State, and is maintained on Kemp thinks that the first objection is valid, but Osler the theory that the law is enacted for the preservation replies to it by saying that the chief elements in the of the public health from the experiments of quacks clot are plaques; and the greater the number of the and unqualified persons; and, says Attorney General plaques the denser the coagulum. To the second McCartney, of Illinois, it must be construed as an Kemp replies that by granting it we exclude the leu- absolute prohibition against the practice of medicine cocytes adhering to the threads from a share in the in this State, except under the conditions specified in formation of the ferment, if any is formed by what the Act. These conditions are that the person pracdoes adhere to the threads. It then remains to ex-tising, if he practises under a diploma from a medical plain why the time of coagulation should depend college-shall have a certificate from the Board of upon the number of plaques, and the experiment re- Health of the State that his diploma is genuine; or mains of value as offering strong support to the if he is not practising under a diploma, that he has theory that the ferment may be derived from the been examined and found duly qualified by the State plaques.

of the participation of the plaques in the process of had been practising medicine ten years in the State coagulation, as afforded by the experimental pro- of Illinois prior to the first day of July, 1877; or that duction of thrombi. So far as completed Kemp's he was a student prescribing under the supervision of work in this direction tends to confirm the results of preceptors; or was performing gratuitous services in Osler, Bizzozero, Hayem, Ferraro and Lubnitzky, a case of emergency. These are the conditions, and who find that the white thrombus is not composed of these alone, under which a person may "profess leucocytes but of plaques; that is due to an ag-publicly to be a physician and to prescribe for the glomeration of plaques around a lesion in the vascu-sick, or to append to his name the letters of M.D." lar wall, or a foreign body introduced into the vessel. The plaques are the elements which first settle on that the person practising shall administer drugs, or the edge of the wounded vessel, and form the basis that he shall perform a surgical operation? Would of the clot, as shown by Eberth, though he still holds any court in the land limit the term to this definition? to the idea that the leucocytes play an important Does not "practising medicine" mean that the person part in the formation of white thrombi. Osler con-practising professes to cure disease, or to assist in tends that they are composed chiefly of plaques, and the cure of disease or bodily ailments? We may that their further development results from the dis- easily suppose the case (for such a one is on record) integration of the plaques; that a granular or stroma- in which a distinguished consulting physician confibrin and a fibrillar or plasma-fibrin must be recog-tinues in practice for several years without prescribcoagulation-necrosis.

is deposited histologically independent of any of the Disgusts." cellular elements of the blood. 6. When the clot is crystal-like bodies.

THE ILLINOIS PRACTICE ACT.

The Illinois Practice Act is a law, coming under Board of Health; or that he is a commissioned sur-But there is further and more conclusive evidence geon of the United States Army or Navy; or that he

Now what is it to practise medicine? Is it necessary nized, the former being identical with Weigert's ing a dose of medicine once in two years, or longer. This man is certainly practising medicine. And in-The conclusions drawn by Kemp regarding the asmuch as the "metaphysicians," "faith-healers" prorelation of plaques to coagulation are: 1. When the fess to cure disease and bodily ailments, and in some blood is drawn the plaques break down almost im- cases append the letters M.D. to their names, though mediately. This is not true of any other element of signifying on their signs that they are "metaphythe blood. 2. The breaking down of the plaques is sicians" or "faith-healers," are they not indictable intimately connected, in times at least, with the clot-under the Illinois Practice Act for practising medicine ting of the blood. 3. The connection between the without licenses? At least one of these people has breaking down of the plaques and the coagulation of the letters M.D. appended to his name on his sign in the blood is not histological, but chemical—i.e., the Chicago. From long custom the public understands plaques appear to give up a soluble substance which that those letters mean Doctor of Medicine; though is active in coagulation. 4. The active agent in the person misappropriating them may say that they question is most probably fibrin-ferment. 5. Fibrin mean "Money Down," "Milk Diet," or "Medicine

The Secretary of the Illinois State Board of Health, very scant fibrin is deposited as long, needle-shaped, in response to a question as to the legality of these people practising, says that he doubts if they could the Practice of Medicine in the State of Illinois," at once arises: If payment may be refused on ac- ditions prescribed in the statute. count of illegal practice, why cannot the plaintiff be indicted for this illegal practice?

" practising medicine," we may cite the case of Bibber treatment in Paris. Notwithstanding, the disease vs. Simpson (59 Me., 181), in which suit was instituted developed in due time and proved fatal. This makes for \$51 for services rendered the defendants intestate, the eighth death from hydrophobia after having been at his special request, by the plaintiff as a clairvoy- subject to a pretty fair test by inoculations by Pasant. It appeared from the plaintiff's testimony that teur himself. The Roumanian was reported to have she professed to be a clairvoyant; that when asked been bitten only thirteen days before coming under to examine the patient she saw the disease and felt treatment by Pasteur. as the patient did; that sittings or séances were of different durations, from one-quarter to one-half of an hour each; that she did not pretend to understand vailing with considerable activity in Venice, and two anatomy or medicine; that she was requested by the deaths from the same disease had taken place at intestate to visit him and render him professional Florence, Italy. services, and did so as by the account; that she helped him, but he died from taking cold; acquainted him with the prices, and he agreed to pay them, but never did so. Appleton, C. J., in deciding the case, said: "The services rendered are medical in their AMERICAN LARYNGOLOGICAL ASSOCIATION. character. True, the plaintiff does not call herself a physician, but she visits her sick patients, examines their condition, determines the nature of the disease and prescribes the remedies deemed by her most appropriate. Whether the plaintiff calls herself a medical clairvoyant, or a clairvoyant physician, or a clearseeing physician, matters little; assuredly, such services as the plaintiff claims to have rendered, purport to be, and are to be deemed, medical."

Not only must the services rendered by these parties be deemed medical, but it must be held that the parties rendering these services publicly profess to be physicians; since a physician is one who claims to heal the sick. And, says Attorney General McCartney, if it should be charged in an indictment or complaint that A. B., on etc., etc., practised medicine without then and there possessing the qualifications prescribed in the certain act of the General Assembly

be prosecuted, but that he thinks that they could not approved May 29, 1877, and without then and there collect fees should the person receiving the "treat- having complied with the provisions of that act, and ment" decline to pay. It seems, however, that the under this charge the prosecution should prove beonly ground upon which a court could refuse to enter, youd a reasonable doubt that the defendent A. B. judgment for the plaintiff in such a case would be did, within eighteen months prior to the finding of the that the plaintiff was practising medicine without a indictment, prescribe for the sick while publicly prolicense, and therefore could not collect fees by law, fessing to be a physician, or that he did append to his It is barely possible that a court might refuse to give name the letters "M.D.," a conviction must necesjudgment on account of "want of consideration;" sarily follow, unless he should produce his certificate but this is only barely possible, and the plaintiff could of the State Board of Health, his commission as suralmost certainly carry the case up on error. But geon in the United States Army or Navy, or prove should the decision be as first suggested, the question himself to have so acted under one of the other con-

RABIES.—A farmer from Roumania, who had been As evidence of the correctness of our definition of bitten by a mad dog, was placed under Pasteur's

CHOLERA.—Late advices represent cholera as pre-

# SOCIETY PROCEEDINGS.

Eighth Annual Meeting, held in the Hall of the College of Physicians, of Philadelphia, May 27, 28 and 29, 1886. (Continued from page 667.)

Dr. F. I. Knight, of Boston, read a paper on LARYNGEAL VERTIGO.

A number of cases of what is called laryngeal vertigo have been reported by various authors. The distinctive feature of these cases is that attacks of coughing are followed by giddiness and momentary loss of consciousness. This latter symptom was present in all but two cases. While it is probable that attacks of dizziness after coughing are not rare, yet but little attention has been paid to the subject. The writer had been able to find fourteen published cases. To these he adds two coming under his own observation. The first case was that of a man aged 42 years, who had a chronic bronchitis of one year's duration. He had had rheumatism when 15 years of the State of Illinois, entitled "An Act to Regulate of age, and on one occasion had suffered with insomnia. No morbid condition of the heart was detected. markably robust. Six weeks before coming under attack of loss of consciousness.

limbs occurred in three cases. In one the move-ments affected the face and head, and in another the In a second case of tubercle of the tongue, the instances of petit mal.

the large blood vessels of the chest and perhaps the This was repeated and the improvement continued heart. Even without this, the effect of rapid breath- for two weeks, when the patient began to run down disturbance.

DR. D. BRYSON DELAVAN, of New York, read a paper on

#### BUCCAL TUBERCULOSIS.

He had seen six cases of this affection. In the re- the throat began to grow sore, and within the last two ports of twenty-four cases of tuberculosis of the weeks this has increased. Careful examination of tongue, in all but one the subjects were males, the chest failed to reveal any evidence of disease, In twelve cases the lesion was anterior, in seven upon | Examination of the fauces showed ulceration extendthe side, in one at the base of the tongue, and in ing out along the upper border of the uvula. Later four the situation was not stated. The disease was the signs of pulmonary involvement became evident. primary in nine cases and secondary in seven cases. Applications of lactic acid gave only temporary bene-In the remaining cases it was not stated whether the fit. In this case, the disease has extended along disease was primary or secondary. The longest dura-the gum. tion of a case of primary tuberculosis was two and one-half years, the shortest ten weeks. The age of were reported. the oldest person affected was 70 years, and of the youngest, not under 12.

tion was H., aged 35, a laborer. His family history bacillus can be regarded as an absolute evidence that

The chest was filled with sonorous and sibilant râles, observation, he experienced pain at the base of the Under the use of iodide of potassium there was grad-tongue. This pain became excessive, and at the end ual improvement. After a day of worry and fatigue, of two weeks he was obliged to give up work. On he had a cough followed by loss of consciousness. examination a fissured and ulcerated surface was There was no evidence of spasm of the glottis and found at the base of the tongue on the right side. no convulsive movements. He never had another This lesion was indurated. In the centre was a large ulcer with large flabby granulations. On the right The second case was that of a lady 47 years of side, externally under the angle of the jaw was a hard age, who had previously been the subject of attacks tumor about the size of a chestnut. There was slight of dizziness, the result of indigestion. She had suf- fetor of the breath. The diagnosis was uncertain, fered with winter cough for a number of years. Dur- the pain was so severe as to prevent sleep. An aping one attack of coughing she lost consciousness, plication of a 4 per cent, solution of cocaine checked During this time there was congestion of the face. | the pain for five hours. The patient's condition be-The following points were obtained from a study came so serious that he was removed to the New of the reported cases: All the cases with the exception of one have been in males. The average at was epitheliomatous, the complete removal of the which the attack has occurred has been  $47\frac{1}{2}$  years. The cough which induced the attack was slight in from the operation and there was marked improvesix cases, spasmodic in two, and severe in three. ment in the general condition. It has been impossi-Momentary loss of consciousness occurred in four-ble to find any evidence of disease of the lungs or teen cases. One case fell, but declared that he had other internal organs. On microscopic examination not lost consciousness. Dizziness is mentioned in all the parts present abundant tuberculous material. eleven cases. In four cases there seems to have A point of interest in this case, is that this is the first been decided evidence of laryngeal spasm. In one case on record in which such an operation has been this was doubtful. In four cases there was marked followed by an apparent cure. Of course sufficient congestion of the head and face. In two the pa- time has not elapsed, to speak positively as to the tients were pale. Convulsive movements of the ultimate result. The operation was done in the latter

face. In these cases there was no biting of the patient, P. O., age 27, gave no history of hereditongue, no frothing of the mouth, and no involuntary tary tuberculosis. He began to run down two years micturition. The speaker objected to the term large, and developed chronic laryngitis. When exprageal vertigo. There probably is no real vertigo in amined, he presented evidence of advanced tubercuthese cases in the sense of the vertigo seen in aural lar disease. The larynx was ulcerated. There was vertigo. There is simply giddiness or lightness of also a lesion on the right tonsil and one on the left. the head. These cases can not be considered to be The pain on swallowing was severe. Iodoform gave but little relief. Temporary ease was given by co-The cause of the attacks is disturbance of the cer- caine. An application of lactic acid was made to the ebral circulation, perhaps due to the compression of right tonsil, and two days later it was much improved. ing is well known. This causes marked cerebral and died. The bacillus tuberculosis was not found. but the man had evident pulmonary tuberculosis.

The third case was that of a man, aged 43. Family history good. No history of specific disease. He was well until ten months ago, when his strength began to fail and cough came on. Two months ago,

Three other cases of somewhat similar character

Dr. E. L. Shurley, of Detroit: In these cases of so-called primary tuberculosis mistakes of diag-The first case coming under the speaker's observa- nosis are sometimes made. He is not sure that the and previous history was good. The man was rethe disease is tubercle in one case, which he considwhich the bacillus tuberculosis was found, the patient sent directions to "give the child two grains of calorecovered and is still living five or six years later.

well-marked cases of primary tubercle of the pharynx. recovered. The first case was that of a lady 35 years of age. Six months before coming under observation she treatment in modern times belongs to Dr. William suffered great pain in the throat. A well-marked C. Ritter, of Pittsburg. Of the different forms of lesion was found above the border of the epiglottis mercury, calomel is the best. The drug is to be and at the base of the tongue. This improved under local treatment. Subsequently the ulceration re- or three hours. It may be given dry and washed turned, the patient ran down in health and died. The down with a little ice water, or it may be given in larynx was entirely free from ulceration. The second water. This is to be continued until the stools becase was a gentleman 40 years of age, who had come frequent and contain in them gelatinous masses tuberculosis ulceration of the larynx developed. Under the persistent application of iodide of amyl is still well, weighing 225 pounds.

FRIDAY, MAY 28. SECOND DAY. MORNING SESSION.

At 10 o'clock the executive session was held, and the following business was transacted:

The following were elected

# OFFICERS FOR THE ENSUING YEAR

President-Dr. E. Fletcher Ingals, Chicago. 1st Vice-President-Dr. E. Carroll Morgan, Washington.

2d Vice-President-Dr. J. N. Mackenzie, Baltimore. Secretary and Treasurer—Dr. D. Bryson, Delavan, New York.

Additional Member of the Council-Dr. F. H. Hooper, Boston.

The following were elected

#### ACTIVE MEMBERS:

Dr. Benjamin F. Westbrook, of Brooklyn; Dr. Frank Donaldson, Jr., Baltimore; Dr. Alexander W. MacCoy, Philadelphia; and Dr. J. C. Mulhall, St.

Prof. Ramon de la Sota y Lastra, of Seville, Spain, was elected a Corresponding Fellow.

A proposition in reference to the formation of a

CONGRESS OF AMERICAN PHYSICIANS AND SURGEONS was received. The proposition was approved, and the following committee, taken from the ex-Presidents of the Society, was appointed to confer with committees from other Societies: Dr. J. Solis Cohen, Philadelphia; Dr. G. M. Lefferts, New York: Dr. F. I. Knight, Boston; Dr. F. H. Bosworth, New

York; and Dr. E. L. Shurley, Detroit. It was decided to hold the next meeting in New York, the time to be determined by the Council.

DR. WILLIAM H. DALY, of Pittsburgh, read a paper on

THE SIMPLEST AND MOST EFFICIENT TREATMENT OF DIPHTHERIA.

His object was to describe the calomel treatment. This is an old treatment. It is mentioned in the writings of Rev. Sydney Smith. About 1779 Sydney sick with a violent attack of croup. Dr. Hamilton, diphtheria, he believed that it had a specific effect in

ered to be a case of tubercle of the larynx, and in of Edinburgh, was sent for, but not being able to come mel every hour, and to persevere. He had never DR. J. O. ROE, of Rochester: I have had two known this to fail." This was done and the child

The credit of practicing and recommending this given in doses of two to five grains every, one, two, of a bright green color, resembling chopped spinach. Then the interval is to be lengthened and the drug continued for some time the patient recovered, and continued so as to keep up this condition of catharsis, the patient having two or three stools each day. It is better to lengthen the interval than to diminish the dose. In this way there is less liability to induce ptyalism. Very little depression follows these large and frequently repeated doses. Ptyalism does not often occur. Under this treatment the membrane exfoliates and re-forms, if at all, with less readiness. The fever diminishes. The diet is to be of a light, nutritious character.

Dr. E. L. Shurley, of Detroit, agreed that the internal administration of calomel is one of the most efficient remedies for croupous inflammation, but in regard to its efficiency in the treatment of diphtheria, he could not agree. The difference between croupous inflammation and diphtheria is considerable. He knew of no cases of diphtheria relieved by the calomel treatment.

Dr. F. Donaldson, of Baltimore, wished that Dr. Daly had given us some statistics and reported some cases. He had seen the calomel treatment frequently tried, but without success. He saw Trousseau treat cases of diphtheria in that way, but he finally abandoned it.

Dr. Beverly Robinson, of New York, said there was scarcely a remedy which had not, at some time, been recommended as a specific for diphtheria. Calomel has been thoroughly used, and finally given up because it did not accomplish what was proposed. He was convinced that epidemics of diphtheria, as of other infectious diseases, differ very much in virulency, and a remedy which is successful in one epidemic will entirely fail in another. He believed that in treatment it is safer to follow what has been considered by the accurate men of our profession, in large numbers, the most reliable treatment for a disease of this character. There is a general consensus of opinion that the proper line of treatment is disinfection of the throat and air passages, with the use of smaller or larger doses of the tincture of iron, com-DR. F. H. Bosworth, of New York, said diph-

theria is a blood poison, which often kills by its toxic effect, but in a greater majority of cases it kills by leading to the development of croup. The affection of the larynx is not diphtheria, but a sequent disease. Smith's daughter, when six months old, was taken While he thought that mercury had no effect upon arresting the disease in the larynx called croup. He ent alarming hemorrhage is only encountered in the

tered in croup.

did not receive it favorably when it was presented to oozing, is a common occurrence. him. He did not recommend calomel as a specific. He simply said that he had a greater proportion of uvular hæmorrhage are, ligature, compression by a successes under this plan of treatment than under clamp or forceps, and the use of the actual cautery. any other which he had tried.

paper on

THE QUESTION OF HÆMORRHAGE AFTER UVULOTOMY; WITH THE DESCRIPTION OF AN INSTRUMENT FOR ITS ARREST.

The speaker described the following case: A man mal size, and that the entire uvulu should not be aged 28 years, whose uvulu had been excised five removed. days previously by another operator, came to him with the statement that the bleeding came on four hours after the operation, and had continued at intervals since then, a large quantity of blood having been lost. Various means had been tried to stop the bleeding, without success. The parts were covered with a coagulum of the persulphate of iron. This was removed and the parts cleansed. bleeding points were then seen. The uvulu evidently had been greatly hypertrophied. The scissors had been used in the operation. There was no evidence of the hæmorrhagic diathesis in this patient, or in any members of the family. The parts being cleansed, the stump was seized with dressing forceps and the hæmorrhage was controlled. The galvano-cautery was applied and the bleeding stopped. In nine hours lowing morning a copious hæmorrhage took place, not less than a drachm a minute, by actual measuremade to detect any other source of hæmorrhage, but none could be found. Chromic acid was then used and the hæmorrhage stopped. At three o'clock the same day copious bleeding recommenced. Galvanocautery was again employed. There was not room for the application of a ligature. Torsion was tried without success. A small clamp used in retaining weakened, and the teeth filed down, was then applied. A string was attached to this and brought out of the mouth. This checked the bleeding and was allowed to remain for several hours. It was then removed and the bleeding did not recur. A search of the literature of the subject failed to show any inhad saved the patient's life.

always arterial in character.

believes that mercury is the remedy to be adminis- rarest instances. A moderate bleeding, stopping spontaneously or by the use of the mildest applica-DR. DALY was not surprised that this method of tions, occasionally happens. A loss of a few drops treatment had not been received with favor. He of blood at the time of operating, followed by a slight

The most reliable surgical measures for controlling The most reliable styptics are, in the order named. Dr. E. Carroll Morgan, of Washington, read a solid nitrate of silver, persulphate of iron, gallic acid, tannic acid, alum, the local use of ice, and vinegar. The most reliable systemic remedies are opium, acetate of lead, sulphuric acid, and ergot. The speaker recommended that in operating, the object should be

#### AFTERNOON SESSION.

to restore the uvula as nearly as possible to its nor-

Dr. Thomas R. French, of Brooklyn, read a paper on

THE LARYNGEAL IMAGE AS SEEN IN PHOTOGRAPHS TAKEN DURING THE PRODUCTION OF TONES IN THE SINGING VOICE.

The speaker had made numerous investigations in this subject, and his observations failed to confirm the statements of most authorities in regard to the position of the vocal cords during the production of different notes in the singing voice. Different individuals evidently use different mechanisms in the production of different tones. The general result of his investigations seemed to indicate that in the proit recurred. The cautery was again used and the duction of low notes the vocal cords are separated stump dusted with the persulphate of iron. The fol- to a greater extent posteriorly than anteriorly. In the production of the middle tones, the vocal cords are parallel, and in the production of high notes the ment, being lost. A careful examination was then opening is widest in front. The paper was illustrated by numerous photographs thrown upon the screen. The following papers were then read by title:

Clinical Notes on Prolapse of the Laryngeal Ventricles; by Dr. Geo. W. Major, of Montreal. Three Cases of Thyrotomy; Recovery in Each Case, with Good Voice; by Dr. Clinton Wagner, of New York. Alarming Hamorrhage after Tonsillar Excision, Arshirt sleeves in position was then taken, the spring rested by Torsion of the Artery; by the same author. Dr. WM. C. Jarvis, of New York, described

> A NOVEL PROCEDURE FOR THE REMOVAL OF SUB-GLOTTIS LARYNGEAL GROWTHS.

The following case was described:

I. C., aged 35 years, consulted me on March 22. stance in which such a procedure had been before 1882, for the relief of a difficulty of speech and of adopted. In this case he thought that this device breathing. The trouble with the voice was noticed two years before; the difficulty in speech appeared A careful study of the subject has enabled him to one year before coming under observation. The find seventeen other cases in which the hemorrhage laryngoscope showed a mass of papillomatous tissue after this operation had been profuse. Death has occupying the cavity of the larynx. The vocal cords never resulted directly from the hemorrhage after and ventricular bands were not involved. The atuvulotomy. Where the bleeding is persistent it is tempt was made to seize the growth during phona tion with the Mackenzie forceps; only a few pieces The speaker, in conclusion, said that a fatal hæm- were removed. The écraseur was then tried, but it orrhage had never followed uvulotomy. A persist- was found impossible to use this instrument on account of the wire being seized by the spasmodic mic acid applications were then tried, but although was read by title. the growth was touched, it was found impossible to limit the application to the diseased structures. The patient then disappeared and did not return for a A CASE OF GUMMATOUS DISEASE OF THE LARYNX, WITH His condition was then much worse, and the difficulty of breathing greatly increased.

It was then determined to try the following plan, the loop of wire drawn in and the forceps removed, opening in the larynx. bringing with it a growth. The laryngoscope showed a second growth, which was removed in the same paper on way. Breathing was at once rendered easy and the speech became natural. The patient said that the presence of the forceps caused no pain, although uncomfortable. This is the only case on record of the giving the details of four cases coming under his removal of a sub-glottis tumor without anæsthetization, and without an opening into the larynx.

CASES OF LARYNGEAL GEDEMA.

The author gave brief details of fourteen cases of the base of the tongue. laryngeal cedema coming under his observation. All of these cases recovered; six under the use of astringents, and eight after scarification.

Dr. Frank Donaldson suggested that in these cases intubation of the larynx, after the O'Dwyer

method, might be applicable.

Dr. E. Carrott. Morgan said his experience with this condition had been limited, and the cases had been mild. He usually employed active purgation, with vesiculation over the larynx and various local measures.

DR. W. C. JARVIS some time ago used, in a case of marked cedema, the fluid extract of jaborandi. In forty-eight hours the ædema had greatly diminished. seen good results from scarification.

A paper by Dr. Charles H. Knight, of New York, contraction of the vocal bands and displaced. Chro- describing A Case of Perichondritis of the Larynx,

Dr. Edgar Holden, of Newark, reported

SPONTANEOUS RE-OPENING OF THE LARYNX AFTER THYROID LARYNGOTOMY

L. D., aged 35, presented himself, May 20, 1885, and if this failed, to remove the growth through an with dyspnœa and aphonia. Examination showed a opening in the wind-pipe. Forceps similar to the cicatrix on the epiglottis, and the left side of the lar-Mackenzie instrument, but heavier, was secured. ynx presented a rounded mass of dull appearance. Through the tips of the blades holes were drilled, and He denied syphilitic infection. After a careful conthrough these was passed a piece of No. oo piano sideration of the case, the probabilities were thought wire, which was conducted through a second open- to favor syphilis, and he was given iodide of potasing at the angle of the blades and out to the handles, sium in large doses. There was improvement for a where it terminated in a loop into which the extrem- short time, but he soon became intolerant to the ity of the index finger could be placed. When the drug. Thyroid laryngotomy was considered necesblades were separated this wire formed a cross-bar sary and was performed. The tumor was removed uniting their extremities. When the blades were with the écraseur; no ulceration was visible. Traclosed the loop of wire could be drawn up by the cheotomy was then performed, and the upper incifinger. The operation was performed without an an-sion closed with sutures. The patient did well and resthetic. The tongue was depressed and with the the tube was removed on the tenth day. The exaid of the mirror the forceps was introduced into the ternal wound healed. He insisted on returning to cavity of the larynx. The mirror was then removed his home, where the surroundings were very unfavorand the forceps carried down to the glottis, through able and his health deteriorated. On the fortieth which the tip of the instrument was forced with con- day after the healing of the wound, the laryngeal insiderable trouble, on account of the spasm. The in- cision was torn open by a severe cough. He refused strument was carried into the trachea sufficiently far to return to the hospital. Examination of the larynx to be sure that it was below the attachment of the showed no disease. Under the surroundings it was growth. The blades were then separated, and press- impossible to get the wound to heal. His health ing against the anterior wall of the larynx, the in- continued to run down, and six months and fourteen strument was gradually raised until the wire was days after the operation the patient died of exhauscaught. The blades were then closed and clamped, tion. The patient had lived five months with an

Dr. U. G. HITCHCOCK, of New York, read a

GUMMATOUS INFILTRATION OF THE BASE OF THE TONGUE,

observation. In none of these cases was the fibrous septum the exclusive seat of the disease. In Dr. T. Amory DeBlois, of Boston, read a paper on three cases, the deposit did not approach this structure. In these cases the degree of dysphagia was in direct proportion to the proximity of the deposit to

SATURDAY, MAY 29, THIRD DAY—MORNING SESSION.

A paper on A Case of Hysterical Sneezing, Apparently Cured by Applications to the Nasal Passages of the Continuous Battery Current, by Dr. S. Solis Cohen, of Philadelphia, was read by title.

Dr. John N. Mackenzie, of Baltimore, read

A CONTRIBUTION TO THE PATHOLOGY AND TREATMENT OF THE RESPIRATORY VASO-MOTOR NEUROSES.

The naso-bronchial tract is frequently the seat of periodical vascular disturbance in which explosions of nerve force play a conspicuous part. These probably depend upon some form of sympathetic or vaso-He had since seen reported several cases in which motor irritation. In the production of such condipilocarpin was used with advantage. He had never tions two elements enter: a deprayed state of the nerve centres and an abnormal excitability of certain

portions of the naso-bronchial tract. In regard to improvement after its use. For a short time ameliothe hyperesthetic condition of the nasal mucous ration was produced, but in the course of an hour membrane, the hyperesthesia characteristic of the the symptoms recurred. His custom is to treat hay paroxysm is like the vaso-motor phenomena which fever as any other chronic disease of the nervous accompany it, purely secondary, and occurs as a system. He insisted upon a prolonged tonic course result of central irritation or paresis. This may pass of treatment during the intervals. This may at first away with the subsidence of the other symptoms or fail, but if persisted in, the time will come when, if be more or less constant. But in either case, there there is no incurable lesion, the paroxysms will diare certain areas in which the hyperæsthesia is more minish in severity and frequency. The great mistake pronounced. The lower, posterior parts are the portions of the treatment upon the tions of the tracts usually affected. In hay fever we termination of the attack. Among the remedies for are dealing with a neurosis. In this connection, he the constitutional management of this class of cases called attention to a neurosis of the aural cavity which he recommended phosphide of zinc, quinine and nux was closely allied to vaso-motor coryza and also to a vomica. These may be given in combination in the similar condition of the conjunctiva. These cases following proportions: are a further evidence of the sympathetic nature of these affections. With reference to asthma in connection with nasal disease it was stated that the ancients had frequently noted the expulsion of mucus from the nostril accompanying or following an attack of asthma. The older writers were evidently familiar with hay fever, but they confounded it with the bron-liquor arsenici et hydrargeri iodidi be taken in a wine chial asthma of the present day. Asthma is looked glassful of water. A similar line of treatment had upon as a disease per se, but, like many other disturbances of respiration, it has no particular lesion simple inflammatory conditions of the nose and and is common to many pathological states. It, like throat with good results. He had also employed cough, is most commonly symptomatic of some dis- bromide of potassium with advantage. A constant order of the respiratory tract. An interesting feature current of from ten to fifteen cells, with one pole over in a certain proportion of cases is the association of the nape of the neck and the other over the region of urticaria with coryza. This is a familiar observation, the superior cervical ganglia or in the nasal passage The speaker then considered the relations between has in a few cases been beneficial. In one case imthe skin and the respiratory tract. He regarded the provement followed the obliteration of vessels on the skin as having a function similar to that of the lungs, posterior wall of the pharynx. treatment of hay fever, or periodical vaso-motor nasal conditions, these accomplish one result only.

They close the door to irritation of the nerve ceneighty cases had been treated after this plan. In the greater number of cases the nasal passages were the are other cases in which such a course will fail. In seat of the vascular disturbance. Next in frequency these neuroses, we cannot expect to thoroughly eradcame the pharynx. Occasionally it was localized in cate the disease until the sympathetic nerve irritation the laryngeal cavity. In whatever portion the vaso is overcome. motor neurosis is situated, the general principles are the same. The treatment of one of these affections has given him better results than any other single is essentially the treatment of the others. Hay fever remedy. He gives it in small doses long continued. and asthma may be classed as symptoms owing their The upper air passages should be carefully examined, origin to the same cause.

are to remove any existing local respiratory disease, to so alter the nutrition of the nerve centres that they constitutional treatment should, he thinks, be secmay not respond so easily to irritation, and to care ondary to the local treatment. fully search for pathological conditions and adopt appropriate treatment for their removal when found.

The peculiarity of the sympathetic is with the patient so satisfactory as that of some other operators. In all the time, by night and by day, and at any moment considering these cases of hay fever, he has been may give evidence of its presence by a paroxysm. struck with the apparent immunity from this affection Any treatment which is practised simply during the experienced by those suffering with anosmia. He has attack or immediately before is simply palliative. In never seen essential anosmia in a subject of hay reference to the use of cocaine, he had found that it fever. He would ask the experience of the Fellows increased the irritability of these structures, and its in regard to the efficacy of the galvano cautery treat-application to the erectile tissue may ultimately ment as a preventative or a cure for hay fever. weaken the cell walls. He, however, did not question the excellent virtues of this remedy in certain part of his experience with the galvano-cautery, he

R.	Zinci phosphide	 gr. 1-16.
	Quiniæ sulphat	 gr. 2.
	Ext. nucis vomicæ	 g. 74.
M.	Et ft. pil No. 1.	

Sig. To be taken before meals.

After meals he directs that from 3 to 5 drops of

DR. WILLIAM H. DALY: The iodide of sodium and upon the slightest suspicion of local disease, the In the treatment of hay fever the chief indications condition should be remedied. If this is done, he

Dr. E. Carroll Morgan: The galvano-cautery has been highly recommended as a successful remedy These chronic neuroses require chronic treatment. for hay fever, but his experience with it has not been

acute affections. In hay fever he had failed to find had a number of favorable cases. Last year he met

recurrence.

DR. CARL SEILER, of Philadelphia: The failures Examination showed a large poste- appearance. rior hypertrophy; this was removed, and since then he has had neither hay fever or asthma.

entitled

#### A CASE OF NASO-PHARYNGEAL GROWTH.

that there was a tumor filling up the posterior part passed into the larynx. of the right nostril. After a short preliminary treatone and one-half inches in diameter and was fibroid ive and obstructive.

#### WHAT CASES OF NASAL CATARRH REQUIRE SURGICAL TREATMENT?

ities and abnormalities of some kind. The introduc- sylvania Hospital, for courtesies received, and the tion of more improved methods of determining the Association then adjourned. locality of inflammation has led to a more frequent resort to surgical measures. With the galvano-caut-

with a number of unsatisfactory cases. What it devery almost any effect, from a slight stimulation to pended on he does not know, but the results were destruction of tissue, can be obtained. Those who not by any means as good as those of the preceding condemn this instrument should state what use of it year. It certainly was not from want of attention they object to. Not every case of anterior hyperon his part. Although all the cases were benefited, trophy should be operated upon. The erectile tissue he thinks he did not obtain absolute relief in more in this situation serves a valuable physiological functhan 45 per cent. Some of the cases treated two tion in swelling up and excluding irritating particles years ago, and which escaped the attack the following from the lungs. In determining whether or not an year, had a recurrence last year. This is a matter of operation is required, the sensations of the patient great importance, because in his work, he advanced should be taken into consideration, with the results the opinion that these cases were absolutely cured. of the examination. If after the use of a four per Some of the cases have entirely escaped. One case cent. solution of cocaine, sufficient hypertrophy to treated in 1881 with glacial acetic acid has had no interfere with breathing is still apparent, it should be removed.

Dr. F. H. Bosworth said the speaker had referred of the treatment of hay fever may, he thinks, be ex- to the erectile tissue of the nose as possessing a phyplained by the supposition thrown out in the paper siological function. He considered that this tissue read. The Schneiderian membrane is not the only is not a true erectile tissue. It assumes the erect source of irritation of the vaso-motor nerves. The position only as a morbid condition. It is simply an source of irritation may be situated in the pharynx enlarged conglomerate mass of blood vessels. There or in the larynx. If the case does not yield to treat- is no physiological function observed by its swelling ment of the nasal membrane we should look further. up. The speaker also states that all persons will Two years ago a case of hay fever presented itself to present abnormalities of the nose. It is a mistake to him. Glacial acetic acid was applied, and the follow- suppose that we have morbid conditions in every ing summer he was free from hay fever, but suffered nose. The healthy nasal cavities present a typical

DR. J. N. MACKENZIE said the microscope shows that the erectile tissue of the nose corresponds with Dr. Samuel Johnston, of Baltimore, read a paper the erectile tissue in other portions of the body. He believed that these bodies serve the physiological purpose of excluding irritating bodies from the lower respiratory tract. Experiments with horses driven A child was brought to him on account of difficulty through a cloud of dust have shown that while the in breathing through the nostril. Examination showed anterior portion of the nose was filled with dust, none

THE PRESIDENT thought the question of the erectment, the attempt was made to remove the growth ile tissue of the nose should be treated on a broader with the écraseur. A spray of a 4 per cent. solution basis. In man the nasal chambers are exceedingly of cocaine was employed. A cord was first passed degenerate. There is no animal in which the nose through the nostril and brought out of the mouth, so is so small in comparison with the rest of the face, as that if necessary, the nostril could be plugged without in man. It is well known that structures which are delay. The wire of the écraseur was applied with- passing through a process of degeneration are exout difficulty. When the growth had been cut through ceedingly variable. So it is with the human nasal about two thirds, the shaft of the instrument broke, chambers. Remembering this fact, we come to anleaving the wire and about three-fourths of an inch other of great interest, that all animals with short of the instrument attached to the growth. An attempt was made to apply a second ecraseur, but this tum, erectile bodies. He had always held that the failed. After trying to remove the portion of instru- object of these bodies was obstructive, and that by ment broken off, it was decided to wait a short time swelling up they protected the portions behind. If and allow the growth to slough off. Four days later that is the case, he could not see why we cannot the attempt to apply an écraseur was again made claim that erectile tissue exists in man. It is his and succeeded without difficulty. The tumor measured opinion that erectile tissue does exist, and is protect-

The following papers were read by title: Inflam-Dr. C. C. Rice, of New York, read a paper en- mation of the Antrum; by Dr. Beverly Robinson, of New York. Additional Notes on a Case of Erysipelas of the Larynx; by Dr. Wm. Porter, of St. Louis.

A vote of thanks was then tendered the Philadelphia College of Physicians, the Union League Club, Almost every nasal chamber will exhibit irregular- the University Club, and the managers of the Penn-

# DOMESTIC CORRESPONDENCE

#### LETTER FROM NEW YORK.

(FROM OUR OWN CORRESPONDENT.)

Resources upon Obstetrics-Amendment to the Constitution of the Academy-A Pasteur Institute.

on June 3, Dr. C. C. Lee, one of the surgeons to worked out the problem for himself by a number of the Woman's Hospital, read a paper on "The Future operations on the cadaver. Dr. Lee thought that he Influence of Surgery and Surgical Resources upon was fairly entitled to the credit of the operation, and Obstetries." It was, to be sure, almost exclusively that if he had accomplished nothing else, this achievedevoted to the past, but the idea was, that since sur- ment alone would serve to hand down his name to gery had already had such a marked effect upon midwifery, it was reasonable to suppose that still greater
surgery. By this method the dangers of opening into
triumphs were in store for it in this department. the perineum and wounding the uterus are avoided
There was nothing, he said at the outset, more imby an incision of the abdominal parietes along the pressive to those interested in the subject of obstet-upper edge of Poupart's ligament, lifting the peritorical procedure than the rapid inroads made within neum, dissecting down to the vagina, dividing the the last four years by surgery into a domain which latter transversely, and then, having reached the cerhad been hitherto regarded as one purely medical.

down to more recent periods, he took up the subject met with either in Cæsarean section or the Porro or of the Cæsarean section and gave an account of its Porro-Müller operation. During his subject, Dr. history, its dangers, and the method of its perform-ance; after which he spoke of the four modifications of the operation suggested respectively by Francke, International Encyclopædia of Surgery. of Cologne, Sänger, of Leipsic, and Kehrer and He next took up the matter of extra-uterine preg-Cohnstein, of Heidelberg. Kehrer's method is de-nancy, and showed what excellent results had been scribed as consisting of a transverse incision through accomplished by the use of electricity in the earlier the anterior convex surface of the uterus at the line of months, as first successfully employed by Dr. J. G. the os internum, of deep sutures to secure immediate Allen, of Philadelphia. Having spoken also of the contact of the peritoneal borders, and of strict anti-results obtained by elytrotomy and laparotomy in the septic precautions during the operation, combined later months of ectopic gestation, he went on to with subsequent drainage of the abdominal cavity, treat of lacerations of the cervix uteri, and condemned In order to cover the line of incision with peritoneum the primary operation in such cases. Personally, he he directs that the latter be separated from the unders said, he had never been successful in securing union lying muscle for nearly a half inch from the borders by this procedure, and he knew of but one surgeon of the wound. Dr. Lee gave a detailed description who claimed to get good results from it. In a large of this procedure, as well as of Sänger's "subperi-number of cases which are left to nature no subsetoneal muscular resection," and its modification by quent operation was required. Leopold, and of the method proposed by Cohnstein, to turn the uterus completely out of the abdomen, ever, the case was very different. Here the advanand open it from behind, which, so far as he knows, tages of immediate closure were so immense that he

tion with the Cæsarean section arises from the delay parturient with an undelivered child in the uterus as commonly made in resorting to the operation, he to neglect to sew up a torn perineum. The omission quoted the opinion of Dr. Robert Harris, of Philato do this was the source of much suffering and misdelphia, whom he pronounced not only the highest ery which might otherwise have been avoided. Notauthority on Cæsarean section, but the greatest medical statistician that this country has ever produced. already accomplished so much in the field of obstet-He then went on to speak of the substitutes which ries, he felt confident that, judging from the triumphs had been devised to take the place of this operation; of the last few years, the results noted would be still first describing Porro's operation, which involves the more satisfactory in the future. removal, after the performance of the Casarean sec- Dr. Wm. M. Polk remarked that for a considerable tion, of both uterus and ovaries, and its modification period after he commenced the practice of medicine, by Müller, who recommends that the uterus, after the he ranked himself as strictly a physician. In the enlargement of the abdominal wound, shall be tilted course of time he became an obstetrician; but he

laterally, and withdrawn outside the abdomen previous to section.

Dr. Lee spoke in high terms of the other substitute for Cæsarean section, laparo elytrotomy, as suggested and successfully practised by Dr. T. Gaillard Thomas. The Future Influence of Surgery and Surgical Although this procedure was proposed as long ago as through the peritoneum, and again in 1820, by Ritgen, and in 1822 by Physick, of Philadelphia, Dr. At the meeting of the Academy of Medicine held Thomas was unaware of these facts at the time he vix, extracting the child through the passage thus He first took a glance at the history of the art of artificially created. Although the number of cases midwifery from the earliest times, giving the ancient in which laparo-elytrotomy had been performed was Egyptians full credit for the very considerable progress as yet comparatively small, the proportion of sucwhich they made in it, and then, gradually coming cesses thus far had been much greater than had been

With regard to lacerations of the perineum, howhas never as yet been attempted in actual practice. regarded it as a matter of great importance, and he In order to show that the great danger in connec-said that he would now as soon think of leaving a

entered upon his work in this department with the regard to the matter at that time; but he hesitated to conviction that it was simply a branch of the physi-accept this dictum as correct, and at the present time cian's art. This feeling was to a great extent due to he was still less inclined to acquiesce in its sentiment. the training which he had received, and especially to He then made the announcement that in no case the teachings of Professor Fordyce Barker. After a that he had ever attended in his private practice had short time, however, he began to appreciate the fact a secondary operation been performed; and this was that there were certain points in obstetric practice simply for the reason that it had never been required, involving surgical methods, which if, at the present He did not mean to say that he had never had any stage of scientific progress in the profession, a man perineal lacerations; but only that none of them were to neglect, he would soon be driven to the wall. are of such a character as to demand a secondary It was only recently, indeed, that obstetricians had operation. The uterus retained its position perfectly become alive to the fact that the domain of their art in every instance, and no other bad result occurred was in reality one of vast scope. In the English from the rupture. He could say, furthermore, that hospitals, more than in this country, they have had to up to the past winter, in no private case of his had a fight their way surgically against the mere physicians, primary operation ever been performed. and also to contend against the active opposition of

much a reproach to the profession as cancer; but at more than once. There was, however, one fatal case. present large numbers of women were perfectly re- It was a significant fact, he thought, that in five out lieved who formerly would have been left to drag out of the forty cases the primary operation for lacerated lives of misery and suffering. But the pendulum, perineum had been performed; but in only one of once started, was apt to swing a little too far, and it them did union take place. In the case occurring in was perhaps true that to-day the obstetric surgeon was his own practice there was a bad laceration, as the not infrequently a little too free with the use of his labor was a very difficult one; but the result of the knife. As to lacerations of the cervix resulting from primary operation was unsuccessful. parturition, he had seen many serious cases (the rent sometimes extending to the vaginal root), recover closure of a ruptured perineum was effected, there perfectly under ordinary treatment, without resorting was profuse uterine hæmorrhage, as a result of shock. to operative measures; and his views on this point After referring to other cases, he said that his mature were quite in accord with those expressed by Dr. opinion was, that while there were, no doubt, cases Lee. Surgeons complained that the abdominal cav- in which the condition of the patient was so favoraity was opened too often at the present day. It ble that primary union was likely to result from an might be; but that was simply a side issue. Before immediate operation, yet as a rule it was safer to the obstetricians of to-day, Dr. Polk said in conclu- avoid the operation, and trust to absolute cleanliness sion, lay the grandest problem that could possibly and watchful care of the patient. If there was any engage their attention, viz.: that in connection with tendency to septic trouble, he believed that the sewthe Casarean section. He did not doubt that within ing up of the perineum would be likely to be attendthe next ten years it would be possible to entirely ed with unpleasant consequences on account of the eliminate from practice that most repulsive of all interference which was thus caused to free drainage. obstetrical procedures, the destruction of the life of it would belong to the obstetrician.

ago, at a meeting of the American Gynecological advantageous circumstances. Society, a distinguished obstetrical authority had

Dr. Barker then referred to a peculiar epidemic those recognized as general surgeons. But the same which had occurred in this city during the six months had been true to a considerable extent here also, and ending May 1. There were no unfavorable symptoms he was happy to say that the obstetrician, notwith- until about the sixth day after labor, when an explostanding the indifference manifested on the one hand, sion would suddenly occur in the system; the temand the active opposition on the other, had now won perature rapidly running up to 104, 105 or 106°. In for himself an enviable position. By way of illustra- consultation he had seen forty such cases, but only tion he need only point to the matter of abdominal one case had occurred in his own practice. As a rule, the symptoms all disappeared within three days, At one time vesico-vaginal fistula was almost as and out of the forty he was called to see only twenty

In two cases that he knew of, in which immediate

Dr. Barker then went on to speak of the marked the fœtus by craniotomy. When this had been ac influence which the gynecologist has had upon the complished there would have been achieved the great-surgery of the present time, and in this connection est triumph ever won in surgery; and the honor of referred to the last paper which Dr. Marion Sims had read before the Academy, in advocacy of laparotomy Dr. Fordyce Barker, in making some remarks on in traumatic lesions of the abdomen; when the late the primary operation in laceration of the perineum, Dr. James R. Wood, in a forcible address, had arsaid that he was not inclined to accept any new gued against this procedure, on the ground that while proposition until time and experience had determined the gynecologist could carefully prepare his patient its real merits; and for a long time he had held his for the operation, the general surgeon would be called opinion on this subject in abeyance. Some years upon to operate suddenly, and under the most dis-

Dr. Malcolm McLean said that he felt compelled made the statement that any physician who did not to advocate the desirability of the primary operation close by primary operation a rupture of the perineum in lacerations of the perineum. He had found that occurring in his practice was guilty of a neglect of in those cases in which he sewed up the laceration duty. He did not express any positive opinion in with soft silk sutures, the result was more satisfactory than in those which were left to nature. He did not tinue the chloroform under the moderate use of which believe in using silver wire sutures, as they were apt the child had been born, and to make an examinato displace the parts; but silk sutures, deeply and tion of the perineum; when, if a decided rupture was carefully placed, were generally efficient and satisfound, the chloroform was still kept up, and the lacerfactory, while they had the advantage, at all events, ation repaired by means of silk sutures. Like Dr. of not doing any mischief, even if they did not ac- Polk, he had not in some time employed silver wire complish the desired result. However, this proce- sutures in either primary or secondary operations. dure served a good purpose by its moral effect, in If the posterior wall of the vagina was involved in backing up the accoucheur in case union did not laceration, he usually put in two or three catgut sutake place; for in these days when so much was ex- tures at this point. The whole operation was a very pected of one from a surgical point of view, a reflec- simple one, but he always performed it under chlorotion was apt to be cast upon the medical attendant form, and he had never seen shock caused by it. In if there resulted a permanent laceration in which his practice at the Woman's Hospital he had seen so there had been no attempt made to secure union by many bad results, which might have been avoided. operative measures. In the main, however, he had which were the direct consequence of ruptures of the found this simple operation of decided practical ad-perineum which were allowed to go without operavantage.

in the opinion expressed by Dr. McLean. He would admit, however, that there were exceptions, in which the conditions described by Dr. Barker contraindiment to its constitution which has before been recated the primary operation. There were many cases ferred to, which gives it once more the undisputable in which the accoucheur had had a bad operation, or right to discipline its Fellows "for cause." labor had been unduly prolonged, where the existing condition of shock would be likely to be followed by Alexander B. Mott, for the purpose of organizing a hæmorrhage; and here we are justified in declining Pasteur institute in this city, for the treatment of to operate. We should always be sure that the patient had not already been subjected to the risk of shock before we made any attempt to repair the expenses, and it was accordingly decided to issue an laceration. It was now some time since he had appeal to the public for subscriptions, as it is proabandoned the use of wire sutures in either primary or the secondary operation. It was natural that the Valentine Mott has recently returned to this city latter should have been preferred to all others before from Paris with a rabbit inoculated by Pasteur, and the days of antiseptic surgery; but silk properly pre- it is stated that this is the first time that the latter has pared, and soaked in a bichloride solution, was alto-permitted his virus to go out of his own hands; which gether better than the metallic suture, which was alcertainly is very complimentary to Dr. Mott. ways a cause of great pain and annoyance to the would seem that this movement is a little premature patient.

In closing the discussion, Dr. Lee said that he differed from Dr. Barker in regard to the question of question of time when such institutes will be estabprimary operation in perineal lacerations. It might lished in many large cities in various parts of the be that he had not been able to place his patients world. The officers of the proposed institute are as under the same favorable conditions for spontaneous follows: President, Dr. Alexander B. Mott: Vicerecovery which the latter had; but, at all events, he Presidents, Drs. Alexander F. Liantard and Louis had not been fortunate enough to obtain the same Deplasse; Recording Secretary, Dr. Charles Villa; satisfactory results when such cases were left to na- Corresponding Secretary, Dr. Valentine Mott. ture. He then referred to the practice observed in the lying-in Department of the New York Foundling Asylum, in which the patients were nearly all primaparce. In this institution it was the uniform rule in To the Editor of the Journal: every ease, whether the patient was attended by the dition in his practice.

tive interference at the time of their occurrence, that Dr. Polk then stated that he entirely acquiesced he was firmly convinced as to the great utility of the primary operation.

At this meeting the Academy passed the amend-

A meeting was recently held at the house of Dr. persons bitten by rabid dogs. It was estimated that about \$5000 would be required for the first year's posed to have the inoculations entirely free. Dr. at the present time; but if the success of Pasteur's process is finally demonstrated, of course it is only a

P. B. P.

# ILLINOIS COLLEGE OF PHARMACY

Dear Sir:-Being a strong advocate of advanced house surgeon or one of the visiting physicians, that medical education, and hence by necessity of properly immediately after labor the condition of the perin-educated pharmacists, it is with a feeling of regret eum should be carefully ascertained, and if it was that in the May 22 number of The JOURNAL, I notice, found to be decidedly torn, to close the laceration in an announcement of a new pharmaceutical colat once. Of course he did not wish to be understood lege, what is, in its essence, an attack on the best as advocating an operation when there was merely interests of pharmacy, and hence of medicine, in an abrasion, or a tearing of the fourchette, such as Illinois. It was said by Prof. Oldberg, (Pharmacist, was almost universally the case with primaparae. He June, 1885) that, "it requires a very considerable did not believe, either, in operating when there was outlay of money and large classes to maintain an profound shock present from loss of blood, or other efficient college of pharmacy, and the multiplication cause; but he had very rarely met with such a con- of schools without visible means of support is to be condemned. There are already more colleges and The plan which he adopted was simply to con-schools of pharmacy, than there is any demand for, and each new addition is a positive injury to the cause book, in 1882, included uterine pathology and surof sound education.'

the case, and was demonstrably the cause of the condensed and clearly written, and has a good index. secession which led to the establishment of the new college. None of the gentlemen mentioned as the prospective faculty can be considered pharmacists. In the establishment of a college of pharmacy the scientific and not the commercial aspect deserves the first consideration. In creating a new college of pharmacy Prof. Oldberg and his colleagues have (to use his own words), therefore, positively injured the cause of sound pharmaceutical education.

Very truly, FRED. M. SCHMIDT, Ph.G. Secretary Chicago College of Pharmacy.

### DANGERS OF KISSING.

To the Editor of the Journal:

Dear Sir:-The paper recently published in your journal on "The Dangers of Kissing" has apparently Col. J. H. Baxter, Chief Medical Purveyor, ordered to proceed attracted the attention of the medical profession. Private communications and clippings have encouraged me in an attempt to pursue the study further. Consequently, I hereby request the reports of cases of disease having been communicated by kissing, for use in another paper. Very truly, etc.,

SAMUEL S. ADAMS, M.D.

1525 I Street, Washington, D.C.

## BOOK REVIEWS.

DIAGNOSIS AND SURGICAL TREATMENT OF ABDOM- Capt. W. F. Carter, Asst. Surgeon, ordered for duty (tempor-INAL TUMORS. By SIR SPENCER WELLS, BART., etc. Sm. 8vo., pp. 216. Illustrated. Philadel-phia P. Blakiston, Son & Co. 1885. Chicago: Carter leave of absence for one month, is revoked. (S. O. phia: P. Blakiston, Son & Co. 1885. Chicago: W. T. Keener.

Though this volume might be called a fourth edition of a book published in 1865, it is necessarily in very many respects a new work. In scarcely any department of medicine have two decades made more marked changes than in the treatment of abdominal tumors. Twenty-five years ago when a physician undertook the treatment of an abdominal tumor he began a journey in the dark. Ovariotomy sometimes succeeded, in which case the surgeon was considered lucky; but it as often failed, and was very generally

The first edition of this book might have been called a plea for ovariotomy; to-day it is no longer necessary to enter any plea at all for the operation. After the publication of the second, in 1872, Mr. Spencer Wells thought that with a record of 500 cases he might with propriety go into the diagnosis of ovarian disease and the details of ovariotomy. The third

gery, which had been grafted upon that of the ovary. Judged by this standard the establishment of a new The present book goes still farther, and presents the college of pharmacy, on the grounds alleged in the most advanced knowledge of one of the greatest editorial, was indefensible. The only grounds on of specialists. It is divided into two parts; the which the establishment of a new college of pharmacy first devoted to "Ovarian and Allied Tumors," and the could be justified from an ethical standpoint, would second to "Uterine and other Abdominal Tumors." be that the old college was lowering its standard of Every one knows who Sir Spencer Wells is, and what graduation and education, whereas the opposite was he has done. The volume under consideration is

# MISCELLANEOUS.

THE BOWDOIN MEDICAL ALUMNI ASSOCIATION will hold its third annual meeting in Memorial Hall, Brunswick, at 12 M., June 23.

ELECTROLYSIS FOR STRICTURE OF THE URETHRA. It is said that a special department for the treatment of stricture by electrolysis is now being organized at St. Peter's Hospital for Urinary Diseases, in London.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM JUNE 5, 1886, TO JUNE 11, 1886.

to New York City on public business, and on the completion thereof to return to his station. (S. O. 128, A. G. O., June

Lieut.-Col. Charles Page, Surgeon, granted leave of absence for one month, with permission to apply for ten days' extension. (S. O. 55, Dept. Mo., June 1, 1886.)

Major Blencowe E. Fryer, Surgeon, sick leave of absence still further extended six months on surgeon's certificate of disability. (S. O. 131, A. G. O., June 7, 1886.)

Major Henry R. Tilton, Surgeon, ordered for duty as Post Surgeon, Presidio of San Francisco, Cal. (S. O. 38, Dept. Cal., June 1, 1886.)

Capt. G. W. Adair, Asst. Surgeon, granted leave of absence for two months, to ake effect when his services can be spared. (S. O. 128, A. G. O., June 3, 1886.)

ary) at Ft. Concho, Texas.

64, Dept. Texas, June 1, 1886.)

First Lieut. B. S. Black, Asst. Surgeon, ordered for duty at Ft. Stockton, Tex. (S. O. 64, Dept. Texas, June 1, 1886).

Mead, F. W., P. A. Surgeon, granted leave of absence for twenty days. June 9, 1886. Guitéras, John, P. A. Surgeon, granted leave of absence for

thirty days. June 14, 1886.

Watkins, R. B., Asst. Surgeon, granted leave of absence for thirty days. June 4, 1886.

Pettus, W. J., Asst. Surgeon, to proceed to Charleston, S. C., for temporary duty. June 11, 1886.

## CORRIGENDA.

In The JOURNAL for May 20, p. 605, the name of C. W. Day is given as the member of the committee on State Medicine from Loussiana. It should have been Richard II. Day, of Baton Rouge, La. In the same journal, on page 600, the title of Dr. A. R. Kobinson is given as "Lecurer," when it should have been Professor of Dermatology and Syphical Control of the Professor of the Professor

# Journal of the American Medical Association.

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## **ADDRESS**

IN OPHTHALMOLOGY, OTOLOGY, AND LARYNGOLOGY.

Delivered at the Thirty-Seventh Annual Meeting of the American Medical Association on Tuesday, May 5, 1886.

BY EUGENE SMITH, M.D.,

OF DETROIT, MICH., CHAIRMAN OF THE SECTION.

In obedience to the established rule, providing that the Chairman of each Section shall read an address on the advances and discoveries of the past year in the branches of science included in his Section, I offer the following:

A retrospect for the past year will bring to our attention but little that is new. No startling discoveries have been made; no brilliant inventions heralded to the ophthalmological, otological or laryngological world; but our specialists have been far from stationary. Solid advances have been made in improving upon known methods of treatment, and confirming the value of known remedies.

It is now about two years since hydrochlorate of cocaine was given to the medical profession as a local anæsthetic of mucous membranes. It immediately marked a new era in ophthalmological surgery, and prolonged experience has not lessened one iota of the enthusiasm which was excited by its marvelous effects.

On September 11, 1883, there was published in THE JOURNAL an article on "Jequirity in the Treatment of Trachoma," of which I was the author. Much has been written since that time, and, as is generally the case the man who has met with unusual success with it, preventive precautionary attention. and had succeeded by its use in getting rid of severe effect of a 1 per cent. solution before resorting to a place.

3 per cent, which seems to be the strongest solution necessary.

The method of "Blepharoplasty without a Pedicle," suggested by Dr. Wolfe, of Glasgow, some years since, has had several proofs the past year of its preference to older methods, several successful cases having been recorded in this country.

Transplantation of the conjunctiva of the rabbit to man in suitable cases of symblepharon, also I believe, suggested by Wolfe, of Glasgow, must take its place among the recognized operations.

I have had the pleasure of reporting a successful case of this character to the Section.

The question of the genesis of sympathetic ophthalmia has been very thoroughly discussed and experimented upon. The bulk of evidence tends to prove that inflammation of the fellow-eye is produced through the track of the optic nerve and chiasma, and not only through the optic sheaths but also by the optic nerve itself.

Many reports have been made the past year favorable to the artificial ripening of cataract by Förster's method of kneading the lens after iridectomy or paracentesis of the cornea. Some diversity of opinion exists as to whether it offers any advantages over the old method of puncture of the lens capsule.

Suppuration of the cornea after an extraction of cataract has become an exceptional occurrence, as has also grave iritis. Can this be due to better methods of operating, to choice of cases for operation, to a better preparation of doubtful cases previous to operation, or to antisepsis? To whatever cause it may be attributed, knowing the serious results that are liable to be produced by septic matter, with new remedies, it has been exalted as a specific, and decried as a dangerous good-for-nothing. That it has appeared to be both, I do not doubt, but to should be used in addition to, not as a substitute for,

Antisepsis has been carried so far as to wash out cases of trachoma and sequellæ, which had for months the anterior chamber by means of a syringe and resisted all forms of treatment, in other lands as well mercurial solution, after extraction of cataract, and as his own, something, more than mere detraction of in cases of hypopion-keratitis. A dressing of iodoits merits by some, good men though they be, will form, used by dusting on the wound, after extraction be necessary to cause its removal from the armamen- is another method in use to prevent suppuration of tarium of the ophthalmologist. My own experience the cornea. Still another is the use of antiseptic with it, in hospital and private practice, enables me discs of gelatine which are placed on the cornea to to endorse all that has been said in its praise. Ow-cover the wound, prevent infection and promote ing to the peculiar susceptibility of some patients it coaptation and healing. They adhere to the cornea eems best in cases wherein dense pannus does not exist to feel the way, as it were, by noting first the which time union of the wound has generally taken

As cleanliness is the principal object sought with antiseptic lotions, many ophthalmic surgeons dis-larynx has been revived, and practised with resultshaving instruments and dressings clean.

painful affections of the ear, and in many cases is found very efficacious. Two per cent. or 4 per the profession is indebted chiefly to Dr. O'Dwyer, cent. solutions are the ones usually employed. Disagreeable symptoms-faintness and dizziness-have

followed its use in several cases. have been made during the past year; perhaps none among them are of more interest to members of this probably many cases of unilateral deafness, the direct full share. cause of which is unknown, date their origin from an place.

exudation into the labyrinth with subsequent atrophy the bulk of this great Association, is such, not being in attacks of mumps. A. Dreyfuss, (in the Gazette branches of our Section, when he does wander into to deal with a localization (metastasis) of the morbid ing and hard to understand that he seldom tries it products independent of the usual limits of parotitis. the second time. Not only the lymphatic salivary and seminal glands,

at all appropriate in others.

lief through the agency of skillful local treatment.

plasms, etc., and of cocaine and other drugs, through longs to some other, as has repeatedly happened. the medium of sponges, inhalations, etc.

still greater results in the near future.

During this year the practice of intubation of the card their use believing they get as good results by according to recorded cases—which are truly marvelous, and which bid fair to, in a great measure, Cocaine has taken its place in the treatment of supplant tracheotomy for the relief of many cases of tracheal diphtheria and allied conditions. For this

There have been several cases of excision of the larynx during the year, with little better than usual Many interesting reports of cases of ear disease termination. Great improvement has been made in photographing the laryngeal image.

Particularly gratifying to the profession is the fact Association than those referring to deafness following that in the marked progress of laryngology during mumps. No doubt many cases are overlooked, and the year, American laryngologists have done their

It is my conviction that the mission of our Sections attack of mumps. Cases are on record where the has been largely misunderstood by the profession at deafness occurred two or three days before the at- large, and by the members who identify themselves tack of parotitis, but generally the aural trouble oc- with a particular Section. Let me speak of my own curs several days after. The ear trouble is usually Section, and possibly my remarks may have some ushered in with rushing, hissing noise accompanied by bearing on others. The Section is entirely given more or less pain in the ear. Later vertigo, nausea over to specialists, who, preparing papers which they and vomiting set in. These cases are generally con- know are to be heard by specialists, are apt to be sidered irremediable, though recovery generally takes technical, and the papers of interest only to such as are exclusively engaged in treating diseases of the The pathological changes probably consist in an eye, ear, or throat. The general practitioner, and -changes resembling those occurring in the testicle very well posted in the technicalities of either of the Hebdomadaire), thinks that in these cases we have our apartments finds the proceedings so uninterest-

Now it is a well known fact that the busy general but the organs of special sense are affected in mumps. physician in small cities and towns can not always The dry treatment of suppurative otitis media, avail himself of the counsel and assistance of a spewhich has been so strongly advocated by some aur-cialist, and he is obliged to treat many cases against ists, is found to be admirable in some cases and not his wishes. While the improvements in the special treatment of cases usually given over to the specialist The department of laryngology has steadily pro- are many times so frequent that a busy practitioner gressed during the year. Not only has the physiolo- cannot keep pace with them. How can this state gy of the upper air passages been greatly elucidated, of things be obviated? I mean this condition of but the knowledge of the pathology and therapeutics some of the Sections which seems to keep the mass. of this region has been very much enlarged. Among of practitioners away from them? I would suggest the important results of all this study and observation that our rules be changed so as to have read before may be mentioned the discovery of the causal relating energy assembly one or more papers each day tions of the nasal chambers and larvnx to pulmonary from the various Sections, said papers to be not over diseases and nervous affections. Notably, certain twenty minutes long, and upon a subject of general forms of asthma, chorea, and epilepsy, and their re-interest; for example, ophthalmia neonatorum, earache in children, diphtheria; the subject and reader In the domain of therapeutics, laryngology has not to be chosen by the Section. The papers can be been behind the other departments of medical sci-discussed in the general meeting, or discussion of ence, as attested by the extensive application and the subject may be relegated to the Section. Some brilliant achievements of the galvano-cautery and such course as this would do away with the reading wire snare for the removal of adventitions tissue, neo- of papers in a certain Section which rightfully be-

In conclusion, Mr. President and members of the Many ingenious devices and instruments have also American Medical Association, let me say regarding been produced for the more perfect application of the literature of ophthalmology, otology and larvnmedicaments through inhalation to the respiratory gology, if by any chance our relations of amity passages, with a marked success over former times; should be severed from all other nations, American and as the work is still actively going on in this di- authors would supply the text-books required by its rection, we may look forward to the attainment of students in the pursuance of these studies, as well as all others pertaining to the science of medicine.

# ORIGINAL ARTICLES.

## THE INTRA-UTERINE STEM IN THE TREATMENT OF FLEXIONS.1

BY A. REEVES JACKSON, A.M., M.D.,

PROFESSOR OF GYNECOLOGY IN THE COLLEGE OF PHYSICIANS AND SURGEONS OF CHICAGO, ETC.

As medical practitioners we all come, sooner or later, to attach more importance to the results of our individual experiences in practical matters than we do to those of others; that is to say, as we exercise more and more our powers of observation we are likely to feel a constantly increasing degree of confidence in their accuracy. This may not seem modest or wise, and may even be an obstacle in the way of progress in the acquisition of knowledge. But these considerations are not to the point, and I shall not discuss them. I only desire to announce the fact. And, knowing this, I shall not expect that the facts which I have to offer for consideration, or the arguments based upon them, will have so much influence I have frequently secured the retention of the instruupon others as they have upon myself.

I began to treat uterine flexions with the stem pessary in the year 1870. Prior to that time the only methods I had employed were gradual dilatation and incisions. The results obtained were not satisfactory. Some of the cases treated by dilatation were benefited for a time, but those which were of long standing, and presumably accompanied by much textural alteration, almost invariably relapsed, unless pregnancy subsequently occurred. In two of the cases in which I incised the cervix the operation was followed by pelvic inflammation, and in one of them the woman barely escaped with her life. I felt the need of, and sought for a safer and more successful method. had received the impression that the treatment by intra-uterine stems was more hazardous than either of the others, and although I could not understand why this should be so, I accepted the teaching, and commenced their use with great misgiving. At first I did not rely upon the stem wholly, but preceded its use with moderate dilatation, or with incision. In two of the cases in which this mixed method was employed pelvic cellulitis resulted-one of them terminating in abscess. In not a single instance in which the stem alone has been used has recognizable nent in two or three.

Within the past few years observations have been published (Vedeler, Herman,) showing that anteflexion of the uterus is a frequent and normal condition; that it bears no causative relation to the symptoms usually ascribed to it; and that, hence, flexions, as such, do not demand treatment at all.

While it may be admitted that all cases of uterine flexion are not accompanied by dysmenorrhoea or sterility, and that both these conditions are frequently attributable to other causes even when co-existent with flexion, yet it is equally true that in very many instances there does exist a relationship of cause and effect between the flexion and the symptoms named.

In these, certainly, the flexion must be looked upon as a mischievous pathological factor, and one which ought to be corrected. And I know-so far as I can say I know anything—that very many of them are amenable to successful treatment.

I have never attempted to treat any case of uterine flexion which was not accompanied by dysmenorrhœa; and the removal of this symptom was the principal, and sometimes the only, object in viewalthough co-existing barrenness frequently constituted an additional incentive to the patient to undergo efforts at cure.

I have used several forms of stem pessary, but as most of them have been abandoned for various reasons, I need not consume time by mentioning them in detail. More than any other I have used, and still use, the Chambers bifurcated vulcanite instrument, and this has been the most satisfactory. A radical defect, however, of the instrument as commonly used is the divergence of the branches below the internal os uteri. This produces an undue degree of stretching of the parts, resulting sometimes in irritation and expulsive pains. ment by approximating the branches, and using it as a single stem when it could not be borne with the branches separated. In all cases the stem ought to be practically single below the internal os. Above this point a slight bulging may be given to the blades near their tips, thus preserving the self-retaining feature of the instrument.

The details of the method which I employ latterly are as follows: After ascertaining the existence and direction of a flexion. I endeavor to pass a flexible olive-tipped bougie through the bent portion and, if possible, quite to the fundus. The depth of the uterine canal is carefully noted. I then select a pliable stem having the same diameter as that of the bougie, and one third of an inch shorter than the ascertained depth of the uterus. The os uteri being then exposed by means of a speculum, the stem, either seized with dressing forceps or mounted upon the end of a piece of pointed wire, is passed entirely into the uterus. A large flattened tampon of absorbent cotton, moistened with slightly alumized glycerine, is then pressed firmly against the bulb of the stem, and allowed to remain one or two days. It is then removed and replaced by a fresh one. It may be necessary to reapply the tampon three or four times inflammation occurred, although it has seemed immi- before the tendency of the stem to slip out of place disappears.

If the os uteri be found pointing high up, either forwards or backwards, it may be impossible to introduce the pessary through a valvular speculum. In such a case the patient should be placed in the semiprone position of Sims, or, as I prefer, in that of Simon, on the back, with the buttocks projecting beyond the edge of the table, or bed. With perineum retracted, the cervix may be drawn towards the vulva with hook-forceps, and the stem introduced as above described. These cases present rather more difficulty at this stage of the treatment, but, as a compensation, the stem very rarely leaves its place.

These flexible stems are made by cutting the distal end from the ordinary bougies used for stricture of

<sup>1</sup> Read before the Chicago Medical Society, June 7, 1886.

by rolling upon the stem a section of rubber tubing. tiveness or excitability of the uterus. In some cases

varying from one to three weeks, according to the expulsive efforts at riddance, while in others its presdegree of tolerance manifested by the uterus, it is removed, and a thicker one put in its place. This, of the worst of these tolerance becomes established likewise, is permitted to remain a week or two, and after a few days of rest in bed, and use of the tampon. is then replaced by a Chambers stem, which, after the preliminary treatment described, rarely produces tolerant of the presence of its tenant, the latter will irritation. I never expect much, if any, change of slip out almost as quickly as it is introduced. I have shape to occur in the uterus in consequence of the not found any entirely satisfactory method of preuse of the flexible stem; and yet in several instances venting this. The best, so far, has been the use of a I have been surprised to discover that a very consid-vaginal pessary which maintains the uterus in a posierable alteration had taken place within a few weeks, tion of a strong ante- or retroversion, and thus brings or even a few days, after beginning its use. More- the bulb of the stem to rest against the vaginal wall. over, in a few cases I have not been obliged to resort 2. Pain.—In my experience, pain in any considto a rigid instrument at all, the acuteness of the flex- erable degree has not been a frequent or formidable ion having been converted into a slight curvature by symptom. When it is manifested I rarely do anythe use of the pliable instrument alone. Usually, thing to lessen it beyond enjoining strict rest in bed. however, not only have I found it necessary to use an inflexible, or nearly inflexible, pessary, but to perdict the stem may be causing, I prefer to not disturbance the stem may be causing, I prefer to not severe in its use for periods varying from three months abolish it by the use of opiates, and thus mask posto a year. This is not done continuously, however, sible inflammatory mischief. Commonly, pain which I always remove the pessary at the end of three or early follows the insertion of the stem subsides after four months. Of course, the uterus is found straight a day or two. If it persists longer, or becomes at this time. The patient is permitted to go without worse, I at once remove the instrument for a few the stem for at least a week, at the end of which days and then re-introduce it. It may sometimes be time 1 make an examination to ascertain the condi-necessary to thus remove and replace it several times tion of the uterus. If it be found still of proper before it can be finally left. shape the pessary is not re-introduced. I do not feel at all certain, however, that the apparent cure of the use of the stem. I have known a few cases in after so brief a period will be permanent, and, if which it was produced almost immediately after the practicable, I like to make another examination after introduction of the instrument and continued as long the further lapse of two or three weeks. In case the as the latter remained. In most instances, however, examination reveal a return of the distortion, even in we need not expect more than a slight flow, lasting slight degree, the stem is replaced and the patient a few days, and perhaps an earlier appearance of the directed to wear it for another period of two or three months, when the effect of the treatment is again

The feature of this treatment which I hold to be necessary to its safety and success, is its slow and gradual conduct; and the non-observance of this necessity has been, I believe, the cause of dangerous results and a failure to cure. A moment's consideration ought to assure us that an amount of force necessary to suddenly straighten a chronically flexed nterus would be as great as would be needed to bend a straight one, and could not be safely applied to the exterior of the organ, were that possible, much less to its delicately organized interior. Any method of treatment which contemplates the very rapid restoration of a flexed uterus, is faulty in principle and dangerous in practice. The distorted viscus must be coaxed, as it were, into proper shape, and then permitted to grow into normal symmetry,

The drawbacks to this method of treating uterine flexions are fourfold: 1. Difficulty of retaining the instrument in position. 2. Pain. 3. Hæmorrhage. 4. Pelvic inflammation. The three latter are common to all other modes of treatment.

1. Difficulty of Retention. In nearly all cases there is a tendency on the part of the uterus to expel the foreign body, and this tendency is in direct proportion to the degree of irritation produced by its

the male urethra. A shoulder or bulb is provided pressure-modified, however, by the relative sensi-After the yielding stem has remained for a period an intra-uterine stem will give rise to most intense

Occasionally, even when the uterus appears quite

3. Hamorrhage.—This is a frequent consequence next menstrual epoch, with, possibly, an increased amount of discharge during the first two or three periods following the beginning of the treatment.

4. Pelvic Inflammation.—As already stated, this has not occurred in my experience as a result of the use of the stem pessary. But the fact has not lulled me into an unwarranted security against its liability to appear, and I find myself always looking for it.

The following table comprises the details of sixtyfour cases of flexion of the uterus treated with the intra uterine stem, and shows the ages and social condition of the patients, the number of children borne by them, the direction of the flexion, and the result of the treatment, so far as known:

TABLE OF SIXTY-FOUR CASES OF FLEXION OF THE UTERUS TREATED BY THE INTRA-UTERINE STEM.

No.	Social Condi- tion.	Direction of Flexion.	Chil- dren,	Result.	Remarks.
1 39		Retroflexion Anteflexion		Unknown	
3 29		Retroflexion	3		6
4 30		Anteflexion			Pregnancy followed; child at term.
5 25				44	Became pregnant while wear- ing Chambers's stem; child born at term.
6 29		Retroflexion		44	
7 20		Anteflexion	ī	44	
8 21	Single	44		**	Subsequently married and bore two children.

No.	Age.	Sociat Coodi- tion.	Direction of Flexion.	dren.	Result.	Remarks.
0	28	Married	Retroflexion		Unknown	
		Single	4.6		41	
11	23	Married	4.6		**	
	28				Cure	
13	30	6.6	Retroflexion		**	Pregnancy followed twice:
1.4	27	Single	Anteflexion		4.4	children born at term.
15	IO		Anteneaton		44	
16	25	Married			**	
17	29	Single	4.4		Unknown	
31	24	Married			Спте	
19	27	**				
	28					Chambers's pessary retained
21	-3					continuously 20 months with
22	26	44	44		Unknown	one de comitore
23	32	+ 6	+6		14	
24	24	Single	4+		Cure	
25	28		Retroflexiun		- 16	
20	32	Single	Anteflexion		Improved	
27	21	61	Anteflexion		Cure Improved	
20	-1		Retroflexion		Cure	
30	19	**	Anteflexion		"	Subsequently married and hore children.
31	20	Married	1.6		Unknown	
32	31		Retroflexion		Cure	
	24		Retroflexion	I	Improved	
	32		Antenexion		Unknown	
35	22				Improved	
37	20		**		Unknown	
38	26				Cure	Afterwards married and bord one child.
39	58		**			
40	21	Single				
4.	30	.74 .EI EI CU				Daniel Committee of the second
	30		Retroflexion			Became pregnant in one month after stem was removed
44	26	Single	Anteflexion		Cure	
	35	- 6	Retroflexion			
40	22		Anterlexion		Unknown	
47	20				Cure	** ** *** *
48	24	Married				Had two children subsequently
49	31	Single	4.4		46	
51	25	Milgic				
52	21	Married	Retroflexion Anteflexion	1	Unknown	
53	25	Single	Anteflexion		**	
		Married	Retroflexion		Cure	AF 1 3 1 -1 -1 1 -1 1 -
55	23		Anteflexion		**	Married subsequently and be
56	33	4.	**		Unknown	came pregnant
57			Retroflexion Anteflexion	1	Cure	
58	23	Single	Anteflexion		Unknown	
50	20	Married	4.0		Cure	
60	34					
61	20	Single	1)		Cure	
0.2	28	Married	Retrollexion			
63	24	Single	Anteflexion			
04	-	- Angie				

of the sixty-four cases, forty-two occurred in married during the second week, but diminished 10 per cent. and twenty-two in single women. Of the former, during the third. In case 4 it was increased 4 per eight had borne children; the other thirty-four were cent. in the second week, and 3 per cent. in the sterile. Of the latter eight subsequently were fruit-third. The quantity of nitrogen assimilated increased ful. Of the entire number a cure of the flexion folin all four cases, independently of the amount of lowed in forty; four were improved and relieved of food ingested. During massage two of the subjects dysmenorrhoa, which before had been constant. In gained slightly in weight, the other two losing weight; twenty the result was unknown. The ages of the but during the week following the one in which maspatients ranged from 19 to 39 years. The uterus was sage was practised all four gained. The axillary antellexed in fifty, and retroflexed in fourteen.

the treatment of flexions to be correct; and it need C., after which it began to rise, attaining its original not be dangerous—at least no more dangerous than figure, or from 0.1 to 0.3 below it, about an hour any other effective method. I further believe that after the end of the séance. The respirations became by its use a larger number of cases of uterine flexion more frequent, and were of a deeper character. The can be cured than by any other means at present in effect on the pulse varied with the character of the vogue. The conditions necessary for safety and suc-cess are watchfulness, patience, and slow progress, became more frequent; but when the manipulation

# MEDICAL PROGRESS.

Physiological Effects of Massage.—Dr. F. GOPADZE has published a series of observations undertaken with a view to determine the effect of massage on the transformation of the nitrogenous principles of food. He has investigated the history of the subject, and finds traces of it in a Chinese work 3000 B.C. Dr Gopadze finds that though there has been a general tendency amongst authors to assume that massage increases the assimilative power, no exact observations on the subject have hitherto been published. He therefore obtained the co-operation of four medical students, who for three consecutive weeks became inmates of Professor Manassein's clinic, and lived on certain articles of food-bread, milk, soup, yeal, and roast beef, the quantities injested being accurately noted. The nitrogen in all the samples of food, and in the fæces and urine excreted, was determined by the Kjeldahl-Borodin process. Massage was practised for from twenty to twenty-five minutes once a day two or three hours after food. The operations were commenced by effleurage, beginning from the extremities and working towards the centre. This was followed by massage à friction, pétrissage, tapotement, a second effleurage of each part concluding the whole. The temperature was subsequently taken, and in some cases sphygmographic tracings. In all four cases the appetite was decidedly increased, not only during the week in which massage had been practised, but after it had been stopped; thus, one of the subjects took an average daily quantity of 24.95 grammes of nitrogen during the first week, 30.97 during the second or week of massage, and 29.57 during the third week. Similarly the amount of pitrogenous transformation was augumented during the continuance of massage in all four cases. The augumentation persisted in two of the cases, but in the other two the transformation was less during the third than during the first week. In case 1 the nitrogenous transformation was increased 3 per cent. during the second week and 1 per cent. during the third. In case 2 it was increased 1 per cent, during the second week, but diminished 11 per cent. during From the foregoing table it will be observed that the third. In case 3 it was increased 3 per cent. temperature decreased for about half an hour after I believe the principle of the intra-uterine stem in the operation to an extent varying from 0.1 to 0.5

was more forcible, the pulse became slower. The of eclampsia. The child had been in convulsions effects in both cases persisted for an hour or more for two hours and had been given emetics, hot baths, after the termination of the operation. In conclusion, and mustard to the feet, without any benefit. The the author suggests that massage should prove useful writer at once administered ½ grain of sulphate of in chronic gastro intestinal catarrh, in chronic consti- morphine hypodermatically, which was repeated at pation due to an atonic condition of the intestines, the end of twenty minutes—no effect having been also in various cases where there is a lack of tone in produced by the first dose. This was also followed the abdominal muscles. He also thinks that the by no improvement, and a third injection was adpractice of massage should be a subject of instruc- ministered twenty minutes later. This was effectual tion not only in the Military Medical Academy of in controlling the convulsions, and by the expiration St. Petersburg, but in all the medical faculties of the of an hour from the time of administration of the empire and in the institutions for training "feldshers" first dose the child was sleeping quietly. When seen sergeants, and after retiring from the army are put in usual, and was apparently as well as ever. - Medical charge of village communities where there is no med- Record, May 29, 1885. ical man .- Lancet, May 22, 1886.

THE RADICAL CURE OF VARICOCELE.—To the large number of operations which have been devised for the cure of varicocele yet another has been added by M. RICHET, of the Hôtel Dien. It is described in Revue de Chirurgie for April by Mr. Picqué who is disposed to laudit. The vas deferens is first separated from the bundle of veins to be obliterated and held out of the way by a thread of copper wire passed through the scrotum in an armed needle. The veins and the fold of scrotum over them are then grasped by the blades of forceps heated to a red heat, such as M. Richet uses for the destruction of hæmorrhoids. A wound of some size is left, and cicatrization is obtained in about three weeks. M. Picqué argues that excision of the veins is the best of all the many operations for varicocele, but that it should only be undertaken by those who are quite familiar with the aseptic treatment of wounds. In cases where the surgeon is not confident of his ability to keep the wound aseptic he recommends Richet's operation. We cannot join in such advice. Richet's operation appears, from the description given of it, to be a very rude method of obtaining a result more easily, more quickly, and better obtained by other means. -Lancet, May 8, 1886.

TENDON-GRAFTING.—A boy, aged 14, cut himself in the hand and divided both flexor tendons of the middle finger. Thirteen months later he came under M. PEYROT's care. There was then complete inability to extend the last two joints of the finger. An operation was undertaken. It was impossible to approximate the divided ends of the tendons, so a piece cicatrization took place and partial success was at- and to arrest incipient baldness: tained. The finger could be semi-flexed, and was constantly held partly flexed and therefore less exposed to injury than before; but the tendon was adherent to the scar. There seems to be no doubt that the engrafted tendon is really united to the boy's tendon.-Lancet, May 8, 1886.

MORPHINE SI BCUTANEOUSLY IN INFANTILE CON-VULSIONS.—DR. C. S. SCOFIELD, of Boston, reports the case of a child eighteen months of age, previously MORPHINE SUBCUTANEOUSLY IN INFANTILE CONhealthy, whom he had been called to see on account

-a semi-educated class of men who act as hospital the following morning the child had taken food as

Koch's Bacilli in Addison's Disease.—Dr. GOLDENBLUM, of Dorpat gives in the *Frach*, (No. 11, 1886) an account of a case of Addison's disease occurring in a young man, in which the suprarenal capsules, which were cheesy, contained Koch's bacilli. The other organs of the body, including the lungs. which were emphysematous, were also examined, but no bacilli were found. 'The suprarenal capsules were immersed in alcohol and sections made, which were stained by Ehrlich's method. A previous case of Addison's disease in which Koch's bacilli were found in the suprarenal capsules was reported in the Vrach (No. 1, 1886), but in that case the diagnosis was somewhat less clear, the body not being distinctly bronzed, though a greyish discoloration was noted; there was also tuberculosis in the lung, which did not exist in Dr. Goldenblum's case. - Lancet, April 24, 1886.

How to Detect Acetone in Urine.—It is stated by Mons. P. Chautard that the presence of acetone in urine or pathological liquids may be readily detected by adding a drop of an aqueous solution of magenta decolorized by sulphurous acid to the suspected liquid, when, if acetone is present, a violet color is produced, the intensity of which is proportional to the amount present. In dilute solutions the coloration does not appear until after four or five minutes; if the amount of acetone is very minute, the urine or other liquid may be distilled, the first portion that comes over being examined. In this way a very minute proportion of acetone may be detected.—Lancet, May 15, 1886.

A LOTION FOR PITYRIASIS CAPITIS.—VIGIER (Gaz. of a young dog's tendon was interposed between Hehdom, de Med. et de Chir., April 2, 1886) recomthem. Unfortunately the wound suppurated, but mends the following lotion for pityriasis of the scalp

> Alcohol. .....3 ounces. Spirit of camphor, Rum. Tineture of cantharides, Glycerin, Essence of sandal-wood, Essence of wintergreen, each..... ... 5 drops. Essence of roses, Essence of laurel,

- New York Medical Journal, May 1, 1886.

THE

# Journal of the American Medical Association. PUBLISHED WEEKLY.

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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## SATURDAY, JUNE 26, 1886.

## CLOSE OF VOLUME VI.

sixth volume, and the third year of the publication of blood, and into this large space from one to four of The Journal of the American Medical As- needles are inserted. If these be connected with the SOCIATION. When the first number was issued in positive pole, a hard but very small clot will be formed July, 1883, the mail list contained less than 2,500 round each needle. "It seems to me that the diffinames of members and subscribers, and now it con- culty, the rarity of success, depends on the very tains about 4,500. The steady increase in the list of slight influence that one, two, or three little rodules its readers, and corresponding increase of revenue, of coagulum can have on so large a mass of blood. has enabled us to employ more editorial and other If, now, we consider the other method, we find in all assistance, and to give The JOURNAL a character for probability an opposite defect—namely, the wire or neatness, promptness of issue, and value of contents other substance occupies a considerable space in the second to no other medical journal in this country. sac; and I think there is little, if any doubt that the Now is a good time for our friends to send in names blood will coagulate round substances thus introof new subscribers or of members of the Association duced." In this case, however, the clot is very soft by application, as the next number will commence —a passive clot, as Broca called it; it is unstable, Volume VII. Every dollar added to the income will and there are clinical facts to show that such a clot be faithfully applied in such manner as to add to the may be dissolved, and there is a danger that some interest and value of THE JOURNAL for the coming shreds of it may be carried away as emboli, year.

trolysis or the introduction of foreign bodies, such as ing with these large aneurisms might be found, and it wire, horse-hair and catgut, have not been very en- occurred to him that this might be effected by introcouraging thus far. Ciniselli has recorded 37 cases ducing steel wire into an aneurismal sac, and arrangof aortic aneurism treated by electrolysis, with 6 ing the wire so that it would lie in wide coils, after cures; but his statistics differ so widely from all others which a carefully regulated galvanic current could be that they seem doubtful. 1. H. Petit gives 114 cases passed along the wire. He reports a case treated in of aneurism of the thoracic aorta, with 69 benefited, this manner in his lecture, which may be found in 38 deaths, and 45 failures; but it is found that of the The Lancet, of June 5, 1886. When the treatment 60 benefited the benefit lasted only a few months in was determined upon the patient was in a very crit-37, and it was not greater than might have been ob- ical state: "The lungs admitted but very little air, tained by rest.

Nor has greater success been obtained by the introduction of foreign bodies. In a lecture on "A Case of Thoracic Aneurism treated by a Novel Method," Mr. RICHARD BARWELL says that foreign bodies have been introduced eight times, and in all without success, save in a case of brachial aneurism too small to furnish any data. It seems doubtful from this whether Mr. Barwell has seen the report of abdominal (aortic) aneurism on which Loreta operated on December 14, 1884, by the introduction of silvered copper wire. On the twenty-sixth day after the operation the tumor was solid, reduced fully onehalf and the patient was going about. This case, whether the patient died subsequently or not from the aneurism, may certainly be said to furnish data. However this may be Mr. Barwell thinks that electropuncture, when carried out so as to avoid irritation on sloughing of the sac-or so as not to be injurious -fails for the following reasons: The cases in which it is used are of necessity large aneurisms, with sacs The present number of The Journal closes the capable of containing twenty, thirty, or more ounces

Such considerations led Mr. Barwell to think that if he could increase the area of galvanic action, or WIRING AND GALVANIZATION IN ANEURISM, increase the hardness and stability of clots formed The results of the treatment of aneurism by elec- around foreign bodies, a successful method of dealin places none at all; his cough was very painful and

constant; the expectoration frankly purulent, the aneurisms. The first sac contained large wide coils wave of blood in the extra-thoracic part appeared of steel wire, each of which was surrounded by a almost subcutaneous." The patient had then been pretty thick coat of firm colorless fibrin, strongly adunder observation for six months. A tube of ivory, herent to it at many places—"that is to say, wherever sharpened as a hypodermic needle, was accepted as the metal was in contact, or within a moderate disthe most feasible arrangement for the introduction of tance of the wall, the wire was bound to the sac by the wire. The skin was rendered insensible by the this fibrin, thus greatly increasing its strength and injection of cocaine, "a fold was pinched up and a resistance. Mr. Barwell thinks that he is not too little incision made from within outwards over the dogmatic in saying that if a galvanic current and tumor; the ivory needle was then thrust in without coils of wire are to be of service in these cases, they difficulty and about ten feet of the finest steel wire will only be so used in combination. passed into the sac. The wire, having been first wound on a wooden cylinder half an inch in diameter and being of the best steel, must, after being paid through the needle, coil itself up again in the sac."

The galvanic arrangement, which was under the care of Dr. Murray, was as follows: The wire was connected with the positive pole of an eight-celled Garnet's battery, and the negative pole was applied to the upper dorsal region a little to the left of the middle line, a piece of amadou, about a foot square, saturated with hot water, being interposed between the electrode and the skin. In the circuit were included a galvanoscope and a Gaiffe's voltameter. As the resistance in a voltameter was so great that the strength of the current did not exceed four milliampères, twenty cells of a Coxeter's "practitioner's or ten milliampères, and this was obtained during the Arrangements at Washington, D. C.: operation, which lasted an hour and ten minutes. puncture. "For twelve hours signs of consolidation Hammett. were absent, or nearly so; but at the end of the 2. Committee on Finance.-Drs. G. L. Magruder, tant and the tumor much harder, and this change C. V. N. Callan, and Z. T. Sowers. pectoration, very difficult previously, became easy Woolhaupton, and H. D. Fry. and somewhat copious, showing decrease of pressure 4. Committee on Reception.—Drs. J. M. Toner, I. eration a new tumor appeared to the right of the win, B. O. Skinner, and H. B. Loring. sternum and rapidly increased; the patient became 5. Committee on Entertainment.—Drs. N. S. Lin-

eration was performed too late, and the existence of Peter, Geo. W. Stoner, and E. M. Schaefer. the second sac, which could not be reached by the . 7. Committee on Place of Meeting for Congress and that there is a future for this method of treating large. Tyler, and C. W. Franzoni.

MEMORIAL MEETING TO DR. BALDWIN .- A very full and interesting meeting of the Montgomery Medical and Surgical Society, Alabama, was held on June 9, 1886, in memory of the late Dr. W. O. Baldwin, of that city. Very appropriate and interesting addresses reviewing and commendatory of the character and professional work of Dr. Baldwin were made by Drs. J. S. Weatherly, R. F. Michel, J. B. Gaston, W. G. Bibb, and R. S. Williams. Letters were also read from many eminent members of the profession from all parts of the country.

## NINTH INTERNATIONAL MEDICAL CONGRESS.

For the information of our readers, and especially voltaic battery" were added to the Garnet battery, to facilitate correspondence, we give the following which increased the strength of the current to nine sub-committees elected by the Local Committee of

- 1. Committee on Congressional Legislation .- Drs. Some redness of the skin was caused at the negative A. Y. P. Garnett, J. H. Baxter, Ralph Walsh, J. M. pole, but no indications of irritation at the place of Toner, — Townsend, N. S. Lincoln, and C. M.
- period the pulsation seemed considerably more dis- J. W. Bulkley, J. W. Bayne, J. T. Young, T. C. Smith,
- rapidly increased. The lungs began to unload them- 3. Committee on Printing.—Drs. J. B. Hamilton, selves of their accumulated pus and muco-pus; ex- Thomas Antisell, Ralph Walsh, W. T. Hord, D. P.
- on the bronchi." But on the fourth day of the op- C. Rosse, Louis Mackall, S. O. Richey, Fairfax Ir-
- weaker, and died a week after the operation, partly coln, W. O. Baldwin, J. R. Hagner, W. W. Godding, from exhaustion, and partly from rupture of the G. W. Acker, D. C. Patterson, and C. M. Hammett.
  - 6. Committee on Transportation .- Drs. J. W. H. The post-mortem examination showed that the op- Lovejoy, W. II. Taylor, R. Reyburn, Sr., Armistead
- wire, showed that under any possible circumstances Sections .- Drs. D. C. Patterson, Chas. Smart, W. H. the case must have ended fatally. But it also showed Hawkes, J. F. Hartigan, J. O. Stanton, Lachlan

The General Officers of the Local Committee of and in recent years it has been my habit rather to Arrangements are: A. Y. P. Garnett, M.D., Chairman; J. M. Toner, M.D., Vice-Chairman; C. H. A. Kleinschmidt, M.D., Secretary; D. C. Patterson, M.D., Treasurer.

Hospital Service are well represented on the Local Committee, while the remaining members include a large part of the most active and influential members of the profession in Washington. So early and efficient an organization of the Local Committee of Arrangements affords an additional assurance that every needed arrangement will be made in Washington for the comfort of members and the complete commence before he returned and removed the insuccess of the Congress.

THE TITLE OF SECTION XV of the Ninth International Medical Congress has been changed, at the suggestion of its President, Dr. Gihon, from "Collective Investigation, Nomenclature, Vital Statistics, and Climatology," to "Medical Climatology and Demography."

# SOCIETY PROCEEDINGS.

CHICAGO MEDICAL SOCIETY.

Stated Meeting, June 7, 1886. THE PRESIDENT, E. J. DOERING, M.D., IN THE CHAIR.

Dr. A. Reeves Jackson read a paper entitled THE INTRA-UTERINE STEM IN THE TREATMENT OF FLEXIONS.

said that he was glad to have heard the paper, and thought it was a most valuable one. The cautious that it gives are certainly those that all of us should remember, to wit: the length of the instrument used from dangerous inflammation in treating uterine flexcompared with the length of the uterus, the slow and gradual dilatation of the uterus before using the inflexible stem, and removing it on the occurrence of bad symptoms. In recent years I have not been in the habit of using the stem pessary as much as my friend Dr. Jackson, but I think that with his present instructions, I shall try it again. Not that I have not tried gradual dilatation, and the gradual, slow, careful straightening of the uterus, but I have not by this particular means caused the pessary to be re-tained as constantly as he has. The vulcanite pess-ary, and the various other forms, including the Wright's or Chambers's modification, I have used, and with many of the difficulties the doctor has narrated. But with his modification it seems to me very likely we can use them with better success. The ir-

use the form of pessary recommended by one of our members, Dr. W. H. Byford, the slippery elm bougie. It produces a gradual dilatation of the uterus, and often produces remarkable results in the treatment of the flexions, and I have had no bad results from It will be seen that the Army, Navy and Marine its use. One point that the doctor did not emphasize sufficiently is that the instrument should not be retained long if it produces pain, but it should be removed and the patient put in bed. I should have preferred to have him give directions for the patient to remove the instrument if the pain continued for a long time, for if it does the instrument ought to be removed, and if he should happen to be out of the city and the patient should be unwilling for any one else to see her, serious disease might strument. For this reason it is, and always has been, my plan to have the instrument so arranged, by a string or something of that sort, that the patient can remove it herself. We should remember that the instrument should be less than the uterus by a third of an inch; that the uterus is to be put into its proper shape, in a splint, as it were, and then expected to grow right-that it is not cured when it is straightened—if it has been displaced for a considerable time there has been an atrophy of the uterine tissue on one side, and it may take weeks, or perhaps months, to alter the nutrition of the different parts of the organ, and until that change has taken place it is not likely that the patient is permanently cured, unless pregnancy has taken place, and altered the nutrition of the parts. As to pelvic inflammation, the author has been more fortunate than most of us in the use of stem instruments. One point I wish to add, viz.: that when there is any possibility of gonorrheal poison lurking in the genital passages of the female, greater care should be taken in the use of such instruments, or operative procedure of any sort, for that matter. I feel, when there is reason to suspect that this poison has once been implanted, that I hardly (See page 703.)

DR. DANIEL T. NELSON, in opening the discussion, in the interior of the uterus, and believe that such an instrument should be used with the greatest caution in these cases.

DR. E. C. Dudley said: The marvelous freedom ure by forcible dilatation and by the intra-uterine stem, furnishes a striking illustration of the fact that the human uterus will sometimes endure an immense amount of abuse. My own preference is generally for the former method, as advocated by Goodell, Ellinger, and others. My experience has only tended to confirm me in the impression that forcible dilatation is reasonably satisfactory in its results, and that the results are reasonably permanent. I would seldoni advocate the use of intra-uterine stem pessaries for retroflexion unless the flexure were of the so-called congenital variety, and therefore associated with atrophy of the uterus, a condition which is very rare. The essayist has, perhaps for reasons of brevity, omitted to make the distinction between physiological and pathological anteflexion. This distinction ritation produced by them has been a great drawback, within a few years has been quite clearly defined by

are now recognized as correct by many of the lead- flexnres for the relief of which he deems the stem ing gynecologists throughout the world. In the light applicable. Inasmuch as many of these flexures are of their investigations the old diagram of Kolrausch, dependent upon uterine or peri-uterine inflammation, of their investigations the old diagram of Kolrausch, which for more than twenty years has generally form, and inasmuch as there is reason to conclude that dysmenorrhea and other evils are more the result of tion of the uterus, is now quite generally discarded. The uterus has no absolutely fixed position, but it would advise that the stem be reserved for cases which are not relieved after the inflammation has gle between the body and the cervix may vary according to the varying quantity of material in the certainly restrict the use of the stem to a very small rectum and bladder, from zero to at least 45°; Fritsch, number of cases, because the symptoms for which it says 90°, and his observation is possibly within the is to be employed would so often disappear upon the physiological limits. When the bladder is full the cure of the inflammation. It is indeed probable that uterus becomes straight and the angle of flexure dis- the dysmenorrheea for which the anthor has employed appears. When empty the angle may measure from the intra-uterine stem may depend rather upon some 45 to 90°, and yet not be pathological. It is more-faulty nutrition, or upon some disease of the uterus over probable that a flexure of much less than 45° independent of the flexure, and that the stem therewhen the bladder is empty, should be considered for gives relief by some change which it produces in pathological. Furthermore, anteflexion, even within the nutrition of the organ. If this be true, it would the defined limits, is always pathological if there be then follow that anteflexion per se really furnishes no immobility at the angle of flexure; indeed, a dispositive indication either in itself or in its results, but placement exists whenever the organ is restrained that the same treatment would be equally effective erable pessaries for straightening the anteflexed ute- or not, has been successfully treated by the stem. terior wall is easily touched. The physiological flexcome, and it therefore may be said to produce, rather
ure, which may be from 45 to 90°, is then perfectly than to relieve, displacement. But we should not
apparent to the examining finger—the symptoms of permit theoretical considerations to bias our judgvesical irritation are attributed to the flexure, and an ment in face of the author's carefully observed rehigher level, has exaggerated rather than reduced the by any means soever. anteversion. For this reason all vaginal pessaries

Schultze, Fritsch, and others, and their teachings this, but he has neglected to specify the particular from its normal movements. In a word, anteflexion under similar conditions without the co-existing flexis pathological if the mobility at the angle of flexure ure. Congenital anteflexion of the puerile uterus is be increased or decreased beyond the physiological undoubtedly a condition for which the stem may be limits, or absent. Want of a clear understanding of considered one of the legitimate means of treatment. these simple facts has led to the invention of innum- Sterility, whether associated with pathological flexure rus, and they have been persistently employed, to the Winckel says that the presence of the instrument detriment of the patient, in cases of perfectly physimay give a better development to the menstrnal deological anteflexion. Suppose a case: The uterus cidua and thereby make a better bed for the ovum. is shown by digital examination to be so low in the One objection to the stem, strongly urged by Schultze, pelvis that when the bladder is empty its entire an- is that by its use the physiological flexure is overanteflexion pessary is accordingly introduced which sults. His contribution is certainly a valuable one, produces pressure upon the anterior wall of the and shows that the instrument, at least in careful The symptoms disappear, and the conclu- hands, is less dangerous than is ordinarily supposed. sion is erroneously formed that the relief was depend. The author's freedom from inflammatory results is ent upon the straightening of the uterus, when in doubtless due to his judicious preparation of each reality the pessary has, perhaps, produced no such case by means of the olive tipped bongie. Undoubteffect, but has merely lifted the uterus to its health edly the observations of Dr. Jackson and others level, and thereby relieved the symptoms, which were must be considered as placing the intra-uterine stem due not to flexure but to descent. The same man- among the useful and approved resources in the treatner of treatment has often been followed by relief ment of these troublesome cases, but even at the from similar symptoms attributed to anteversion, risk of prolixity I again protest against the indiscrimwhen in reality the pessary, by lifting the cervix to a inate treatment of purely physiological anteflexion DR. H. P. MERRIMAN said: I have very little to

especially designed for anterior displacements are in add to what has been said. The use of the various no respect superior to the ordinary Hodge pessary; methods that have been proposed seem to me to aim indeed, they are objectionable, because in overcom- at one given end, to change the nutrition of the uteing the descent they press upon the uterine wall and rus. Forcible dilatation does that to a certain exthereby cause irritation of the organ. Anteflexion is tent; it is temporary, however, in its action. Incionly a symptom which may result from any one of a sion produces an alterative effect and accomplishes variety of widely different causes, such as adhesions, its purposes. It does not succeed a great many uterine fibroid, parametritis posterior, or failure of times, neither does the temporary action of dilatathe puerile uterus to develop at puberty. It would tion. The use of the stem pessary, on the other indeed be irrational to attempt the relief of a symp- hand, succeeds because it is keeping up a continuous tom Jue to such diverse causes by any single plan of pressure upon the parts. Now I am decidedly in treatment. The essayist would not attempt to do favor of this treatment by stem pessary; it strikes me that it is the only rational method of treating these flexions, which are pathological. After the cause of a flexion has been removed, that is, the inflammation of the uterus or the pressure of a tumor, are supposed to be physiological (which I don't be-or pressure of heavy clothing, or whatsoever causes lieve), the uterus is supported in the neighborhood of it, the uterus does not always return to its natural the internal os, which may be said to have a fixed state, and then we need to introduce some method place in the pelvis. The elasticity of the tissue will for restoring it to its normal condition, and I do not allow that part of the uterus to be pressed in nearly know any more rational method than this one. This all directions, but it will come back. The fundus paper strikes me as a very valuable one. The valu- may bend forward or backward and remain in such able part of this treatment seems to me not to be so position for some time, and the uterus still be in a much in the use of this stiff stem, as the earlier treat-normal position. During youth the child who sits ment by the flexible stem, where, by continuous too much, has a curved spine, etc., having a uterus pressure upon the parts, we are able to accomplish the same effect as passing a sound in chronic cases of gleet, producing a healthy action in a diseased organ and thus producing absorption of a pathological exudate. It strikes me that the doctor recog- uterus may even become atrophied), and a flexion nizes this condition, for often before using the stiff results which, when slight, may be called a physiolog-Chambers' stem when he has been using these bougies, ical flexion, and may exist without causing trouble; in a great many instances he has found the treatment but it is pathological. The elasticity which the utehas nearly cured the disease, and if it had been con-rus of normally firm structure displays during the tinued longer I believe a cure would have been effected. filling up and emptying of the rectum and bladder is The intra-uterine stem by continuous pressure in- hardly worthy of the name of flexure. Any considduces an alterative action of the tissues, the absorperable permanent flexure occurring in this way must tion of exudates and a gradual return to the normal be the result of want of firmness in the structure of condition, of the uterus, and a natural tendency the uterus. If we are going to use a supporter we toward a straightening of the uterine canal as the should use it when the flexure is forming, not after it uterus becomes healthy.

the paper with a great deal of interest, and also to viz.: by straightening up the spine, using exercise, the discussion. My methods are different; I have etc., etc., a stem will be seldom necessary, because used the stem pessary a great deal in former years, whatever flexion has already been produced will usubut for the past two years I have discarded it entirely ally not cause unpleasant symptoms. If it has gone as some of the results were unfortunate, although I to the degree of producing atrophy of the uterus we think I have never had any serious results from the may need to use a stem pessary, but as a stimulant use of the stem. I now use, and have for the past to the uterine tissue rather than a straightener of this two years, the galvanic current entirely, and it is applicable to all cases, especially in those in which the stenosis is so great as not to admit the passage of the bougie. I have never found a case in which I could view of its slight action as a support and powerful

and I congratulate Dr. Jackson that he has discarded he is using it less all the time. In my experience and incision and dilatation in treating flexions. I also the experience of a great many others, if we cure the congratulate him upon his good success. I believe acute or subacute inflammation of the uterus and the mortality from this treatment—the treatment by then apply stimulating measures, we nearly always the intra-uterine stem—has been estimated to be accomplish the cure of the flexion by safer means. from ½ to I per cent. by those who have investigated heretofore. Whether it is so now I do not know. The present per cent. of inflammation of the they are exceedingly rare. If those present, follow-cellular tissue varies from 2 to 5 per cent., as nearly as I can determine. There are an immense number few of us will live long enough to do a great deal of cases is which the term caveral inflammation with the few few will live long enough to do a great deal of cases in which the stem caused inflammation, which of harm. have never been published. It seems to me that in DR. T. DAVIS FITCH said: I think that a considering this subject the reason for this treatment paper so commendatory of a measure as this, will should be made more apparent. There are some who perhaps lead many of the members of the profession use it as a splint or merely to straighten the uterus; to adopt it without proper precautions and without others use it as a stimulant on account of its con-realizing the dangers which attend the use of the tinuous pressure. There is no doubt it stimulates intra-uterine stem. I believe it is a very dangerous and temporarily straightens the uterus, but it is well instrument to use. I am an advocate, as you all

has been produced. If we will use such treatment Dr. Sarah H. Stevenson said: I have listened to as will remove the improper pressure upon the uterus, not use this method with satisfactory results.

Dr. H. T. Byford said: I quite agree with Dr budley in his trite but very true remark, "It is won, defful what an amount of abuse the uterus will stand, cases, while formerly he used it about once in 218 cases, while formerly he used it about once in 50, and

known that in time, in a large proportion of these know, of pessaries, but I do think the intra-uterine

hands than Dr. Jackson's serious results will often the cause of flexion; whether in married women getfollow. My own experience in the use of it has been ting up too soon after confinement, or whether from limited for the reason that I became alarmed from acute inflammation. The paper does not go into the the bad reports of cases by Dr. Chambers himself, facts and state whether the uterus is lightened and the inventor of this bifurcated instrument which Dr. thereby goes back of itself to a normal position, nor Jackson has exhibited. If the same precautions are does it inform us if this could be assisted by giving used that are advised by Dr. Jackson, I think as a rule it might be entirely harmless—no, I should hardly of the patients at the time of treatment, whether they be able to say entirely harmless, or entirely free from a healthy condition, or whether they have some danger-but I think the precautions which he has specific blood disease in which medicine would assist adopted have been very ingenious and would in the in the treatment. And if the medicine has an almajority of cases prevent serious results from the terative effect, how much benefit is received from the intra-uterine stem. His use of the bougies preceding medicine and how much from the pessary. the use of the inelastic stem, accustoming the uterine commendable.

inversion and retroversion it has not been stated how intra-uterine stem affords a means by which the uterus

stem a dangerous instrument, and that in less careful many were accompanied by prolapsis, or what was medicine internally. Much depends upon the state

Dr. Jackson said, in concluding the discussion, mucous membrane, or the uterus itself, to the pres- that he felt that he ought to express his thanks ence of a foreign body within its cavity, is very in- for the courtesy with which his paper had been genious, and a thing I should never have thought of received. It was only a thirteen minute paper, and myself. Although I have tried these pessaries oc- there are a great many things in the domain of medicasionally my great difficulty has been to keep them cine that are not in it, and a great many questions in the uterus; I might open them in any direction I might be asked on subjects growing out of and conpleased, spread the blades as widely as I pleased, and nected with it, which he could not answer if he were they would slip out—they caused so much uterine disposed to. The intention of the paper is simply to contraction that they would be expelled from the demonstrate the efficacy of a single remedy in cornterine cavity into the vagina, and I have always been recting a single deformity. Questions as to whether disappointed in the results from their use. For sev- the uterus was prolapsed, whether the patients had eral years while I was in active practice I had adopted taken antibil ous pills, or had cachexia, really do not the treatment of Peasley, for flexion and stenosis, enter into the consideration of the subject. I supwhether caused by exudation or spasmodic contrac- posed that was perfectly plain from the fact that no tion of the os internum, that is by the use of his mention was made of anything beyond the mere conuterotome dividing the stricture at the internal os, dition of deformity. I am very glad so many exceland then gradually dilate the canal until I could in- lent ideas have been added to it. The suggestion of troduce a No. 12 or 14 sound through the os internum. Dr. Nelson as to the patient being able to withdraw This was introduced every second day from one week the pessary is excellent, and is never omitted. I to two weeks until it ceased to be followed by pain, never introduce a pessary that I do not attach to it and by hæmorrhage after its introduction, showing a silken cord by means of which the patient can withthat the os internum had been thoroughly dilated and draw it in case of necessity. As a rule, every pathe incision had healed sufficiently so that no blood tient should be able to withdraw any instrument followed the use of the sound. After the sound was placed in the genital passages; the regular attendant introduced I used a large glycerine tampon for the may not be at hand when needed, there may be an purpose of depletion and relief from irritation and to aversion on the part of the patient to calling in ansupport the uterus, if it was an inversion it would other physician, and she should have the proper hold the fundus up so as to assist in relieving the means at her disposal. The remarks of Dr. Dudley flexion to a certain extent at least, and preyenting as regards the distinction that should be made bethe occurrence of inflammation. I have treated a tween pathological and physiological conditions regreat many cases in this way and with entire satisfac-sulting in flexion, are quite proper, and I agree with tion, and never had a case of acute inflammation of him fully. We all know that the conditions precedany kind occur as the result. I believe, however, ing and accompanying these bent conditions of the that a majority of cases of flexion are attended with literus are very various; and in many cases no stem, versions more or less. I don't believe that flexions incision, or other means will have a beneficial effect, occur so frequently as is generally supposed, unaccompanied with version, the uterus is tipped over more or less in connection with the flexion, and in the main element of cure. When the uterus has connection with the treatment which I have suggested been chronically flexed there will be a thinning of I have always corrected the version, and used the the side towards the angle, showing local failure of ordinary support or pessary to keep the uterus in its nutrition, either as cause or effect of the bending. proper place, thereby relieving any contraction or Straightening, therefore, is one element of cure in a pressure which would keep up the flexion. I think uterus where there is insufficient nutrition, and I do the paper an admirable one, and the Doctor's pre- not believe that any other means exclusive of this cautions in the use of the instrument he has advised, cures flexion. But it must not only be straightened, but its circulation must be fully restored, otherwise Dr. H. C. FEEDER said: I would like to ask for the organ will resume its bent condition. We caninformation. In the report of these sixty cases of not put a splint on the outside of the uterus, and the

for the safety and success of the treatment are, I which, for sufficient reasons, we did not do. think, correctly attributed to the preliminary measures—the slowness of the straightening and the prompt-tion had been normal except the first two hours after ness with which any tendency to harm could be met. the injury. The object was to accustom the uterus to its tenant, so that by and by it would accommodate a larger one and in this way the uterus has been made to receive, and tolerate the presence of an inflexible instrument. In one case a Chambers' stem was retained twenty months, and I think if the patient had not rebeen elected Professor of Ophthalmology, Otology turned and told me she was wearing it, it would be and Laryngology in the Universities of Nashville and there yet. It produced no unfavorable symptoms. Vanderbilt.

Dr. A. R. Small reported

## A CASE OF PISTOL-SHOT WOUND.

On May 2, 1886, he was called to see F. R., aged 23, who, a few minutes previously, had received a shot from a No. 32 pistol. Patient was suffering from shock, difficult breathing, and excessive pain in the left leg below the knee. The ball had struck the right eighth rib, about two inches external to the Capt. Jas. C. Merrill, Asst. Surgeon, ordered from Columbia costal cartilage. Sensation was lost in the right leg below the knee. Motion was not impaired in the right leg, though the sensation was lost below the Capt. Saml. Q. Robinson, Asst. Surgeon, ordered from Dept. knee. The left leg was hyperæsthetic below the knee, and motion slightly impaired. A drainage-tube was inserted about two inches into the wound, and the wound dressed antiseptically. The patient com- Capt. J. V. Lauderdale, Asst. Surgeon, ordered for duty as Post plained of no pain except in left leg below the knee, where the pain was excessive. Morphia was given hypodermically in sufficient doses to control the pain. Nothing was allowed the patient the first twelve hours but ice, and occasionally water. About 10 P.M. there was evidence of internal hæmorrhage, and the patient seemed to be sinking. Milk was then given in small quantities frequently. The morning of the 3d he had rallied somewhat.

The urine was drawn by the catheter every eight hours, and contained blood. There was no expulsive force to the bladder. Respiration was normal after the first two hours.

On the afternoon of the 3d patient became delirious, and continued so, with occasional lucid intervals, until death, which occurred at 4.20 P.M. of May 4th.

May 4th.

Autopsy five hours after death. Rigor mortis well-marked. Unfortunately, through a misunderstand-surgeon, detached from the "Wabash" and ordered to the "Essex." July 1.

Smith, Howard, Surgeon, ordered to the "Wabash."

may be kept straight enough to allow of circulation ing, the undertaker had preceded us and injected his on each side. The method of treating flexions by preserving fluid, so that we were unable to determine forcible and extensive dilatation does more than di- exactly the amount of blood in the right pleural cavlate. It straightens, also. A bend may be just as ity. It must have been quite large, however, as the acute in a large tube as in a small one, and mere right lung was entirely collapsed. The ball made a stretching will not suffice, and its results usually not clean round hole through the centre of the eighth be permanent. Gradual dilatation is much more rib on the right side, about two inches from the cospromising, and next to the method by the stem I tal cartilage, passed through the lower side of the would prefer it. I have only treated cases of flexion in which dysmenorrhoea was present, a symptom that through the diaphragm, right lobe of the liver, and interferes with the patient's health, and the dysmenor- superior portion of right kidney, and through the inrheea was usually cured or relieved. I do not think tervertebral foramen between the eleventh and twelfth this such wonderful success; only about two-thirds dorsal vertebræ, on the right side of the spine, and of the cases were cured, some were simply improved, lodged against the posterior surface of the body of and in some I do not know the result. Yet I think the eleventh dorsal vertebra, just within the spinal there is no other method that will do quite as well. cord, where it was so firmly imbedded that it could The suggestions made in the discussion accounting not be removed without disarticulating the spine,

# MISCELLANEOUS.

Dr. G. C. Savage, of Jackson, Tenn., has recently

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM JUNE 12, 1886, TO JUNE 18, 1886.

Major J. S. Billings, Surgeon, granted two months' leave of absence, with permission to go beyond sea, to take effect July 9, 1886. (S. O. 138, A. G. O., June 16, 1886.)

Major Wm. E. Waters, Surgeon, ordered from Dept. East to Dept. Columbia.

Bks., Ohio, to Dept. Columbia, to take effect upon the expiration of his present leave of absence.

Columbia to Dept. Texas.

First Lieut. Wm. O. Owen, Jr., Asst. Surgeon, ordered from Dept. Columbia to Dept. Texas. (S. O. 133, A. G. O., June 18, 1886.)

Surgeon at Fort Concho, Texas. (S. O. 70, Dept. Texas, June 12, 1886).

Capt. Edward T. Comegys, Asst. Surgeon, ordered for duty as l'ost Surgeon, at Madison Bks., Sackett's Harbor, N. V. (S. O. 60, Div. Atlantic, June 15, 1886.)

First Lieut, C. S. Black, Asst. Surgeon, ordered from Ft. Stockton, Texas, to Ft. Clark, Texas. (S. O. 69. Dept. Texas, June 11, 1886.)

FICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U. S. NAVY, DURING THE WEEK ENDING JUNE 10, 1886.

Swan, R., P. A. Surgeon, detached from "Brooklyn" and

want Grees.

Lovering, P. A., Passed Asst. Surgeon, detached from Navy Yard, New York, and ordered to "Brooklyn."

Ar'hur, George, P. A. Surgeon, ordered to Navy Yard, New

Rush, C. W., P. A. Surgeon, detached from the "Franklin" and ordered to the "Brooklyn."

# OFFICIAL LIST

Of Delegates and Members in attendance upon the Annual Meeting of the American Medical Association in St. Louis, May 4, 5, 6, and 7, 1886.

#### ARKANSAS.

State Medical Society—Joseph W. Case, Batesville; James A. Dibrell, Jr., Philo O. Hooper, Roscoe Greene Jennings, Thos Edgar Murrell, Claiborne Watkins, Little Rock; Clifton Thos Leggar Murrell, Claiborne Wakins, Little Rock; Chilton S. Gray, Fayetteville; Wm. Harrison Hawkins, Texarkana; Thos. W. Henley, Bentonville; Geo. F. Hynes, Van Buren; James M. Kelleam, Fort Smith; Jas. M. Keller, Hot Springs; Wm. B. Lawrence, Batesville; Daniel A. Linthicum, Helena; Zaphney Orto, John Franklin Simmons, Chas. P. Tobin, Pine Bluff; Wm. Blackwell Welch, Fayetteville; Asbury J. Vance, Harrison; Phillip VanPatten, Forest City; J. M. Watkins, LaCrosco. LaCrosse

Benton County Medical Society-H. Wunst, Rogers. Washington County Medical Society-John Young, Spring-

Permanent Member-James A. Owens, Pine Bluff.

### CALIFORNIA.

State Medical Society-Wm. P. Gibbons, Geo. P. Reynolds, Alameda.

Permanent Member-R. H. Plummer, San Francisco.

#### COLORADO.

State Medical Society—John Chase, John W. Graham, Thomas H. Hawkins, Denver; B. St. Geo. Tucker, Colorado

Permanent Member-Russell G. Floyd, Boulder.

### CONNECTICUT.

Fairfield County Medical Society-Wm. C. Wile, Newtown. Hartford County Medical Society-George R. Shepherd, Hartford.

Permanent Member-Francis J. Young, Bridgeport.

### DAKOTA TERRITORY.

Territorial Medical Association-J. B. VanVelsor, Yankton. DISTRICT OF COLUMBIA.

Medical Association of Dist. of Columbia-John W. Bayne, John W. Bulkley, Alex. Y. P. Garnett, John B. Hamilton, C. H. A. Kleinschmidt, DeWitt C. Patterson, Edw. M. Schaeffer, Joseph M. Toner, Washington.

Permanent Members-Philip H. Barton, Albert L. Gihon, Washington.

Jacksonville Academy of Medicine-Thomas Osmond Summers, Jacksonville.

## GEORGIA.

State Medical Society—J. W. Bailey, Gainesville; Henry F. Campbell, Augusta; James A. Gray, J. McF. Gaston, Atlanta; Robert Hope Taylor, Griffin.

# ILLINOIS,

State Medical Society—A. E. Baldwin, Albert E. Hoadley, John H. Hollister, W. W. Jaggard, Samuel J. Jones, Wm. T. Montgomery, John D. Skeer, Plumer W. Woodworth, Chicago; David S. Booth, Sparta; Edgar P. Cook, Mendota; Wm. M. Cox, Mt. Sterling; B. M. Griffith, Springfield; Francis B. Haller, Vandalia; Charles C. Hunt, Dixon; Ellen A. Ingersoll, Canton; William T. Kirk, Atlanta; J. H. Ledlie, Pittsfield; Chas. H. Norred, Minncapolis, Minn; Newton S. Read, Chandlerville; Augustus R. VanHorne, Jerseyville; Wm. H. Veatch, Carthage; Chas. M. Vertrus, Murrayville; Alphonzo Wetmore, Waterloo. Northern Central Illinois Medical Society—Wm. J. Cheno-

with, Decatur; S. Dickey, J. Huber, Pana; Wm. O. Ensign, Rutland; Thomas Gdeon Hickman, Vandalia; J. H. Miller, Oconec; Kendall E. Rich, Wenona.

Southern Himos Medical Society—J. K. Berkebile, Millstadt; J. L. Brant, Lakewood; Hosca V. Ferrell, Carterville; William Alexander Gordon, C. A. Mann, Chester; Hugh R. Guthrie, S. W. Marshall, Sparta; Wm. Weir Hester, Anna; H. P. Huntsinger, Pinchappellik, Neikheld, K. Leifer, Guthrie, S. W. Marshall, Sparta; Wm. Weir Hester, Anna; H. P. Huntsinger, Pinckneyville; Archibald K. Leifer, Coul-

terville; P. H. McMillan, Shiloh Hill; John Barnes Rosson, Vergennes.

Iowa and Illinois Medical Association-George L. Eyster, Samuel C. Plummer, Rock Island.

Adams County Medical Society—L. H. Baker, Payson; T. Gilmore, Quincy; W. M. Lander, Chouler; Richard Williams, Æsculapian Society of Wabash Valley—Wm. M. Chambers, Charleston; C. S. Laughlin, T. C. McCord, Paris; J. L. Polk, Arcola; A. T. Steele, Charleston; Jos. B. Walker,

Effingham. Alexander County Medical Society-Geo. J. Parker, Cairo.

Aurora Medical Society—Mary C. Knight, Aurora.
Brainard District Medical Society—Rob't U. Berger, Hopedale; Alonzo F. Burnham, Ashland; W. A. Mudd, Athens; Philip K. Oyler, Mt. Pulaski.

Centennial Medical Society—John M. Hoyt, N. S. Marshall, H. J. B. Wright, Olney; Wm. M. Johnson, Johnsonville. Chicago Gynacological Society—A. Reeves Jackson, DeLas-

Chicago Gynecological Society—A. Reeves Jackson, DeLaskie Miller, Chicago.
Chicago Medical Society—Walter W. Allport, Edm. Andrews, Wm. T. Belfield, D. R. Brower, Henry T. Byford, Isaac N. Danforth, Nathan S. Davis, S. C. DeVeny, Edw. J. Doering, Jas. H. Etheridge, D. W. Graham, Joseph L. Gray, Alfred S. Houghton, E. F. Ingals, G. F. Lydston, John S. Marshall, F. H. Martin, E. L. McAuliff, T. W. Miller, Liston H. Montgomery, John E. Owens, Augustus V. Park, Jas. H. Pleaker, Edwin Powell, A. R. Reynolds, H. J. Reynolds, F. Webster, Nathan S. Davis, Jr., Chicago.
Chicago Society of Ophthalmology and Otology—S. S. Bish-

op, J. E. Harper, Chicago.
Chicago Pathological Society—Emma A. Baldwin, A. W. Harlan, C. J. Lewis, C. E. P. Silva, A. H. Tagert, Chicago. Decatur Medical Society—Josiah Brown, Decatur.
De Witt County Medical Society—F. B. Bullard, Chesnut.

Fox River Valley Medical Society-Catherine B. Slater,

Jersey County Medical Society-E. G. Proctor, Kane. Lake County Medical Society-Alfred C. Haven, Lake Forest.

LaSalle County Medical Society—John S. Ryburn, Ottawa. Macon County Medical Society—John G. Harvey, Geo. F. Waldron, Blue Mound

Macoupin County Medical Society—Fred. Brother, Bunker Hill; T. N. Burwash, Plainview; A. C. Corr, Chas. H. Holloday, Carlinville; Geo. N. Gilson, Shipman; W. A. Trout,

McLean County Medical Society-E. P. G. Holderness, Chenoa; John Little, John L. White, Bloomington; L. E.

Spear, Shirley

Military Tract Medical Society—R. F. Henry, Princeville; N. B. Hoornbeck, Youngstown; J. C. Kilgore, Monmouth; L. A. Malone, Jacksonville; Edw. L. Mitchell, Roseville; Madison Reese, Abingdon; Thos. A. Scott, Galva.

Morgan County Medical Society—W. C. Cole, E. L. Her-riott, T. J. Pitner, Jacksonville. Ogle County Medical Society—Wm. T. Speaker, Mt. Morris. Peoria County Medical Society—Otho B. Will, Peoria. Shelby County Medical Society—W. G. Wilson, Shelbyville.

St. Clair County Medical Society—Boyd Cornick, Mascoutah; Orburn T. Moore, New Athens. Tazewell County Medical Society—Benj. H. Harris, Grove-

White County Medical Society-Chas. T. Hunter, Spring-

Will County Medical Society-David W. Jump, Plainfield;

Alfred Nash, Wn. M. Richards, Joliet.
Winnebago County Medical Society—A. E. Goodwin, D. Lichty, H. Richings, Rockford.

Permanent Members—Wm. A. Allen, Donnellson; C. Armstrong, Jas. T. Crow, Geo M. Ross, Carrollton; J. M. Armstrong, E. W. Fiegenbaum, Edwardsville; Wm. A. Byrd,

Michael Rooney, Quincy; R. W. Crothers, Delavan; G. M. Michael Rooney, Quiney; R. W. Crothers, Delavan; G. M. Chamberlin, O. C. DeWolf, C. Fenger, Moses Gunn, H. A. Johnson, John H. Rauch, C. G. Smith, E. S. Talbot, W. P. Verity, Chicago; J. J. Conner, Palmer; G. W. Cox, Clayton; P. L. Dieffenbacher, Havana, F. S. Dodds, Anna; Jas. W. Dora, Mattoon; C. DuHadway, Jerseyville; Isaac W. Fink, Hilbsbor; Earl Green, J. H. Mitchell, Mt. Vernon; W. A. Haskell, Alton; G. Wheeler Jones, Danville; W. T. Lampton, Olney; J. T. McAnally, Carbondale; S. T. McDermitt, Cowden; H. H. Littlefield, Beardstown; D. S. Jenks, Plance; J. P. Watthew, Carlinville, R. I. Witchell, Gregord Plano; J. P. Matthews, Carlinville; R. J. Mitchell, Girard; I. C. Myers, Clinton; A. M. Powell, J. L. R. Wadsworth, Collinswille; Geo. J. Rivard, Assumption; J. Schneck, Mt. Carnel; M. W. Seaman, Shipman; J. H. Stewart, Exeter; W. L. Sugget, Flora; L. Tibbets, Rockford; T. F. Worrell, Bloomington.

#### INDIANA.

State Medical Society—F. W. Beard, Vincennes; W. H. Bell, Logansport; Wm. M. Holton, New Harmony; W. O. Jenkins, Jno. E. Link, Terre Haute; A. Maxwell, J. L. Thompson, Willoughby Walling, Indianapolis; W. V. Morgan, Julison, whoughby walling, indianapolis; w. V. Morgan, Junetta; S. E. Munford, Princeton; B. Newland, Bedford; G. R. Pickenpaugh, Mt. Vernon; J. R. Weist, Richmond.
Allen County—Jas. S. Gregg, G. W. McCaskey, Fort

Wayne.

Bartholomew County—A. J. Barker, Columbus. Blackford County—C. Q. Shull, Montpelier. Clark County—H. A. Graham, Jeffersonville.

Dearborn County-Jas. Lamb, Aurora; C. B. Miller, Wm. Terrill, Lawrenceburg.

Elkhart County-L. H. Dunning, South Bend; Wm. A.

Floyd County-C. P. Cook, C. W McIntyre, New Albany. Grant County-Alpheus Henley, Fairmount; L. P. Hess, Marion.

Hendricks County-G. II. F. House, Pecksburg.

Henry County—G. W. Burke, Newcastle. Howard County—Wm. Scott, Kokomo.

Huntingdon County-A. J. Boswell, Andrews; A. H. Shaf-

fer, Huntington.

Jay County—C. S. Arthur, Portland. Kosciusko County—Jno. H. Davisson, Warsaw; F. M. Pearman, Palestine.

La Salle County-C. A. Landers, Ottawa.

La Salle County—C. A. Landers, Ottawa.
Marion County—Jo. Chambers, Geo. Cook, Jos. Eastman,
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