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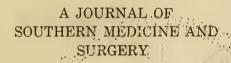
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LISTERINE

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No. 1

Original Communications



A PLEA FOR THE MORE GENERAL USE OF ARTIFICIAL PNEUMO-THORAX IN TUBERCULAR CASES.

Jos. L. Spruill, M. D., Director of State Tuberculosis Clinics, Sanatorium, N. C.

It is not the purpose of this paper to describe the operation for Artificial Pneumothorax or to discuss the indications for its use, but to call attention to the necessity of having more members of the profession familiar with the operation in order that those patients upon whom the treatment has been begun in the various sanatoria, may have advantage of the treatment at home.

It is estimated that only 7% of all cases coming to sanatoria are benefitted by this operation; including of course those who could have it done on account of lesions in both lungs or other causes; but the principal cause of failure is due to the fact that patients do not have it continued long enough.

In the North Carolina Sanatorium for Tuberculosis the operation has been successfully begun on a number of patients and continued as long as they have remained in the institution, but since it requires from one to three years to secure a complete compression of the lung, and since the average stay of a ratient is only five months, it can readily be understood that the operation under the present circumstances is a failure so far as permanent results are concerned. Time and again have we used it with brilliant results so long as the

patient remained in the sanatorium, where treatment was given at regular intervals, only to have them leave, go home and die, for lack of someone in their locality to continue the treatment.

The operation itself, while a delicate one, and not without danger, can be understood and done by any physician who has a good working knowledge of physical diagnosis and the ordinary laws of physics, together with a thorough knowledge of the anatomy and physiology of the chest wall, pleura and lungs.

At present, only two physicians in North Carolina outside of T. B. Hospitals, so far as the writer's knowledge goes, are familiar with the operation, and neither of them is connected with a hospital.

The State is full of general hospitals. All doing good work, and manned by capable men, but in none of them so far as the writer knows, is this operation, which is capable of saving so many lives done. And, there are no patients discharged from any of the various T. B. sanatoria that live so far from any of the hospitals that they cannot reach them easily, and have the operation done at regular intervals at little cost of time or trouble. It is better and safer that it should be done in a hospital or by some physician who has access to a fleuroscope, as by this means alone (except of course by the X-ray plate which is necessary) can the progress of the lung be watched.

This is necessary because by this means alone can one discover if a patient has a movable mediastinum, which will allow its contents pushed to lungs and displacing the heart. Again

^{*}Read before the Seaboard Medical Society of Virginia and North Carolina at its 25th annual meeting at Elizabeth City, N. C., Decem- the opposite side, thus compressing both ber 7th, 1920.

tion, I do not think this should be under- the body, either mental or physical. taken except by an expert; as it simply ed the technice.

study of tuberculosis conducted at the State Sanatorium, this operation can be studied and learned by any physician in the State who wishes to take advantage of it. Recently the staff at the Sanatorium has put on a move by which the pneumothorax patients discharged from the Sanatorium can be cared for at home. The family physician provides himself with the apparatus for doing the pneumothorax, and the Sanatorium sends the man who demonstrates to him the operation. We now have one patient in the town of Greenville who is doing well under her physician's care, the operation having been demonstrated to him in this way.

CHECKING UP THE DIABETIC.*

W. W. Silvester, M.D., Norfolk, Va.

In the medical profession the paramount aim is to prevent and cure disease. Unfortunately, this is rarely possible and the chief occupation of the doctor is relief of suffering and the attempt to modify the cause of the disease. It is to be regretted that diabetes sugar comes in the urine. is a condition which in the average instance has been present in an individual sometime before they appear for treat- threatened with acid poisoning. ment. This is due chiefly to its insidious onset and mild initial symptoms, so eling if his usual diet is not available. the most the doctor can do is to make the best of a damaged condition. The cases. In the average instance it is slow onset is not a constant rule by any means.

I believe many cases that have been regarded as acute in the onset are not primarily acute but in reality an acute

it shows how compression is going on exacerbation of a chronic process. This and whether adhesions are such as to may be due either to an over indulgence justify the continuing of the operation. in food or impairment of metabolism As to selecting the cases for opera- due to involvment of some other part of

Fortunately if the doctor understands means the destruction of one lung, and the source of danger and recognizes the since it is obviously a grave question signs which indicate danger, he can do a should be decided on by the specialist; great deal for his patient. The question but once the operation is begun and suc- of understanding the significance of cessfully done, there is no reason why signs is a matter of the greatest imit should not be continued by any intelli- portance. A diabetic in some instances gent physician after he has once learn- can relax at times and still come back. but there will come a time when the At the post graduate school for the over indulgence will be fatal. It is essential that we realize that every patient is a new patient. In every type condition there are various grades of the condition and nowhere in the study of medicine is this fact brought more forcibly before one's mind than in the metabolic disturbances. Probably more forcibly in metabolic disturbances because we deal in figures to a greater extent than other conditions.

> Joslin makes the following statement with which I heartily agree: "A diabetic patient at the beginning of treatment should be made to understand that he is taking a course in diabetes. For successful graduation in the course he should demonstrate his ability.

"1. To test the urine for sugar.

2. To serve himself with approximate accuracy without scales, 75 grams of a 5 per cent vegetable.

"3. To record a summary of his diet

for the previous day.

"4. To explain the quantity of carbohydrate which it contains.

"5. To state his diet on his weekly fast day.

"6. To describe what he is to do if

"7. To describe what he is to do if he has reason to believe that he is

"8. To know what to eat while trav-

"The above I try to teach my diabetic more of an incentive to adhere to what had been told them. If necessary I lend the patient a pair of scales until they have learned approximate weights."

The ideal desired in a diabetic is to so arrange their diet and life as to main-*Read at twenty-fifth annual session of Sea- tain their nitrogen equilibrium, blood furnish the patient with enough food to

board Medical Association, Elizabeth City, N. sugar normal, free from acidosis and C., December 9, 1920.

make him mentally and physically effi- of diet; absence of acidosis; no marked cient. It is a painstaking procedure on loss of weight nor great weakness; pathe part of the patient and doctor and tients more often middle aged or older, requires a whole hearted co-operation, stout, and of "gouty" type than young Every diabetic is individual. You may and slight or emaciated. Mild cases control a very mild case by the most long continued and neglected are apt to simple advice, such as a little rest (ab- become refractory and severe. solute) in their daily life. On the other hand a severe diabetic may have reach- cosuria is less readily removed than in ed the point where every known available form of treatment will not improve their condition. To accurately check a stricted as to fat and protein; tendency diabetics condition determination of blood sugar and plasma carbon dioxide strength. tension are essential.

A diabetic should never feel that they have been educated to the point where they can do without the services of a

doctor.

Any diabetic in the beginning should be treated as a case of baby feeding. Their tolerance for fat protein or carbohydrates is involved. It may be one or all and just where the trouble exists has to be established. Rest in bed while tolerance is being established is essential. After getting up tolerance may improve.

To consider diet alone of importance would be a great error. Mental relaxation and physical exercise should be promoted. If we are to bring about a is placed on a "preliminary diet"-1, 2, decrease of diabetes in a community it or 3, according to the gravity of the will be with such measures. Every case: agency which promotes health and physical development tends to prevent an Breakfast: outbreak of the diabetic tendency.

REMEMBER—"IT IS EASIER TO KEEP WELL THAN TO GET WELL."

A valuable set of diet lists used in checking up the diabetic have been devised by the medical staff of the Hospital of the University of Pennsylvania and are given below.

Classification of Diabetes Mellitus.

Unless there is clearly a temporary glycosuria only, the presence of sugar in the urine should, for practical purposes, be considered as establishing a diagnosis of Diabetes Mellitus.

A rough working classification of "types" of the disease is useful as a guide to treatment. It must, however, be remembered that no fixed classification can be laid down. Experience in a given case may require reversal of opinion as to mildness of severity.

1. Mild Diabetes—Moderate, though in the same cases severe glycosuria easily removed by moderate restriction

2. Moderately Severe Diabetes-Gly-(1), though, as a rule, disappearing on a carbohydrate free diet moderately reto mild acidosis; loss of weight and

3. Severe Diabetes—Glycosuria usually marked; persists on protein-fat diet; tendency to acidosis more or less decided; considerable loss of weight and strength; "cardinal symptoms" of diabetes pronounced.

Preliminary Diets for Diabetics.

 When admitted patients are placed for 24 hours upon a general diet to obtain an indication of their reaction to this. In case of patients in a serious condition, or of such as have had satisfactory outside study, this general diet for 24 hours is omitted.

2. After the first 24 hours the patient

Preliminary Diabetic Diet No. 1.

meaniast.			
	P.	F.	C.
Two eggs	. 12.	12.	_
Cream (20%) 15 c.c	0.5	3.	0.5
Coffee—150 c.c	. —		-
Dinner:			
Broth—150 c.c	3.5		_
Lean meat-120 Gms	. 32.	12.	_
Cream—15 c.c	0.5	3.	0.5
Tea-150 c.c	. —	_	_
5% vegetables—150 gms	s. —	_	4.5
Supper:			
One egg	6.	6.	-
Lean meat—90 gms	24.	9.	_
Coffee—150 c.c	_		_
Vegetables 5%, 150 gms			4.5
Cheese-30 gms. or ba-			
con 25 gms	8.	11.	_
Total gms	87.5	56.	10.0
	4	9	4
Calories	350.0	504.	40.0
Total calories—894.	,-		

Preliminary Diabetic Diet No. 2.

For patients with moderately severe diabetes and slight evidence of acidosis.

Breakfast.

	Р.	F.	С.
Two eggs	12.	12.	
Coffee—150 c.c			_
Bran biscuit	_		_
Dinner:			
Broth—150 c.c	3.5	_	
Lean meat—90 gms	24.0	9.	
Tea—150 c.c			
5% vegetables, 150 gms.		_	4.5
Supper:			
One egg	6.	6.	
Coffee—150 c.c	_		
Bran biscuit			
Cheese—30 gms. or ba-			
con—25 gms	8.	11.	_
Total gms	52.5	38.	4.5
Total glis	4	9	4
Calories	214.0	34.2	18.0
Total calories—574			

Preliminary Diabetic Diet No. 3.

For patients with severe diabetes and seriously threatened acidosis. (Omit yolk of egg and meat and increase the COH if the acidosis increases.)

Breakfast.

Dicariast.			
	Р.	F.	C.
Oatmeal (cooked) - 90			
gms	2.5	0.5	11.0
One egg	6.0	6.0	
One orange	_		10.0
White bread-30 gms	3.0	_	18.0
Coffee, 150 c.c	_	-	
Dinner:			
Broth-150 c.c	3.5	_	_
Potatoes-60 gms	1.5		12.0
5% vegetables—150 gms.	_		4.5
Tea—150 c.c	3.0		18.0
Supper:			
One egg	6.0	6.0	
Lean meat—90 gms	24.0	9.0	
Boiled rice—30 gms	1.0	_	6.0
White bread—30 gms	3.0	_	18.0
Total gms	53.5	21.5	97.5
gills	4	21.5	4
	4		4
Calories	214.0	193.5	390.0
Total Calories—797.5.			

Preliminary Diabetic Diet No. 4.

Diet for "fast" days and previous to "oat-meal diet,"

ea	1.1	0	C1	

Coffee—200 c.c	_		
5% vegetables — 150			
gms	_		4.5
2 bran biscuits	_		_
Dinner:			
Broth-150 c.c	3.5	_	_
Tea—150 c.c	_		
5% vegetables — 150			
gms	_	_	4.5
2 bran biscuits	_		

Sunner

supper:			
Broth-150 c.c	3.5	_	_
Tea—150 c.c			_
2 bran biscuits	_	_	_
Totals gms	7.0	0.0	9.0
	4	9	4

Calories _____ 28.0 0.0 36.0 Total Calories—64.

Total Calories—64.

Note—Additional feedings of broth or 5% vegetables may be given between meals and at bed time. Whiskey may be added when specially prescribed.

1. Protein Foods Free of Carbohydrate and Fat.

	% P.	%F.
Gelatin	90.0	
Soups-Broth	2.0	
Vegetable	2.9	
Egg whites	12.0	
Protein Foods Free of Carbob	drates	

2. Protein Foods Free of Carbohydrates.

Low in fat (below 10%).		
	%P.	% F.
Dried beef	40.0	6.0
Beef tongue	20.0	9.0
Sweetbread	20.0	9.5
Lean veal	20.0	6.0
Chicken-broilers	22.0	3.0
Fish-various fresh	18.0	1-2.0
Shad, halibut and mackerel	19.0	5 - 9.0
High in fat (over 10%).		
Lean beef—cooked	25.0	12.0
Beef	24.0	25.0
Mutton	25.0	23.0
Ham, lean pork, pork chops	20.0	20.0
Bacon	10.0	60.0
Chicken	20.0	16.0
Herring	37.0	16.0
Sardines	23.0	20.0
Two eggs	12.0	12.0
Salmon	22.0	13.0

3. Fats Free of Protein and Carbohydrates. Butter ______ 85.0 Olive oil ______ 100.0

- 4. Carbohydrate—Containing Foods, Grouped by Percentage of Carbohydrate.
 - (1) Vegetables.
 - (2) Fruits.

demands either slowing of the advance, or a return to a lower diet or a "fast day."

- 5. In moderately severe diabetics rendered sugar free on Diet No. 2, but still having evidence of acidosis, keep tiously.
- 6. Moderately severe diabetics not underlying causes of disease. becoming sugar free on Diet No. 2 By foci of infection we me as in paragraph 7, section 2 (below).
- nite acidosis threatening to become or generalized infection. marked, after a brief use (2 or 3 days) days until the patient is on a full fast- evidences. ing basis.
- creasing gradually to reach 50 gms. per day in 3 or 4 days), and as little fat as such protein feeding entails (skimmed suited). Then add fats and COH very gradually (5 gms. of fat and 10 gms. of body. COH daily) for a week.
- (3) The subsequent increase in total calories and in fat and carbohydrates is the most difficult part of the treatment. More rapid increase of COH may the fats; but in other cases proportionate increase of fats and COH may be possible. Proteins should be gradually raised to 70 or 80 gms. per day, after frequency. the fats and COH have been restored to the diet in moderate amounts.
- (4) A "fast day" each week should interrupt the gradually increasing diet increase of sugar.
- N. B .- In the above and in the outlined diets the amounts are adapted (roughly) to individuals weighing 50 kilos. For less or greater weights make proportionate alterations.

*FOCI OF INFECTION.

By Frederick C. Rinker, B.A., M.D. Visiting Physician Sarah Leigh Hospital, Norfolk, Va.

Clinical and laboratory research durthe fat at the same amount, and very ing the past few years has done much gradually increase the COH (protein is to establish the principles of foci of sufficient). Later if acidosis disappears infection and the trend of modern day increase the fats and proteins cau- medicine is more and more working towards the goal of determination of the

By foci of infection we mean circumshould be changed to a fasting basis—scribed areas in the human organism in the fats and protein being withdrawn in which bacteria are localized and multwo or three days. Thereafter proceed tiply, giving off toxines and serving to furnish microorganisms for an oncom-7. (1) In severe diabetics with defi- ing Bacteraemia and later a systemic

A focus of infection may be either of Diet No. 3, begin fasting treatment acute or chronic or it may be primary by cutting out the fat and protein first, or secondary. It may exist for some and then reducing the COH in 3 or 4 time with very little local or systemic

Time does not permit, and it is not (2) When sugar free (expected in 2-4 my desire in this paper to attempt a days), begin with protein foods (in-consideration of the entire question of focalized infections, but I merely wish to emphasize some of the points already established on the more common local sites of local infectious processes which broth, white of eggs and fish are best may sooner or later produce systemic or generalized disease in the human

It is an accepted fact that pathogenic bacteria, in the majority of instances, enter the body through the open avenues-nose, throat, mouth, urethra, rectum, vagina—and through abrasions on the surface of the body. Thus primary be possible by prolonged restriction of foci of infection are usually found in tissues communicating mucous membrane and skin surfaces.

> Let us now consider these sites of infectious processes in sequence to their

1. The Upper Respiratory Tract— The incidence of bacterial invasion through the mucous membrane surfaces of the nose, naso-pharynx and nasal accessory sinuses has been established as and a "fasting period" any considerable being high by Evans, Billings, Rosenow, LeCount and others.

> The common nose colds known as Coryza, Grippe, Rhinitis, etc., are frequent occurrences and readily recovered

^{*}Read before Seaboard Medical Society, Elizabeth City, N. C., 1920.

from in the majority of instances. But more prevalent among the adults than unfortunately the these colds too frequently invade the are frequently found in patients who cells of the accessory sinuses. Here the exhibit a well kept set of teeth and who anatomy is such as to promote poor state that their teeth have never given drainage and there often results a lo-them trouble. Thus in order to elimicalized, persistent infection first acute nate the mouth as a possible underlying and later chronic. This infectious pro- factor in disease it is necessary that cess is at all times a source of grave X-ray pictures be made of the teeth, danger to the general system. Infec- and important that these films be proptions in these sinuses do not necessarily erly interpreted. form pus, but may result in catarrhal, 4. Aural Infections-The middle ear quently will show up on the X-ray plate should be eliminated in an attempt to when properly interpreted. Thus an in-run down a focus of infection. fectious process localized in the nasal 5. The Genito-Urinary Tract—Infecsinuses in many instances can only be tious processes may occur at any point diagnosed by a process of elimination, along the male and female genito-urin-The adenoid tissue, particularly in any tract, either by direct bacterial inyouth, is also a frequent site of local vasion or by hematogenous metastasis.

2. The Tonsil—The invasion of the any of the other pathogenic bacteria. tonsils by bacteria is common in all ages but particularly during youth. All of dence of secondary manifestations, reus recognize the dangers of acute rheu-sulting from skin infections, is low, the matic fever, acute valvular heart disease and many other secondary pathological processes resulting from acute tonsilitis. These conditions may become tions about the finger nails. The author chronic and have as their underlying has seen one such case in whom recovcause chronic infections harbored in ery from the joint condition followed tonsillar crypts. The anatomical struc- very rapidly after the fingers were enture of the tonsil is such that invasion of bacteria into the crypts may be retained and form small abscesses or foci gall-bladder, appendix and the intesof infection. Thus many tonsils appearing innocent on casual examination may, on more careful and prolonged consideration, be found to be a "load of to some primary focus through lymphodynamite." The stumps, too frequently genous metastasis but they are menleft by the operator, and the lingual tonsil, may be the seat of disease which in the cause of disease. In many inwould result in just as serious compli-stances when searching for the cause of cations as though the entire tonsil had disease is found in either the gall bladbeen left in the throat. Therefore from der, the appendix, or in the intestines as a clinical point of view let me urge that ulcerative colitis. the entire tonsil be removed either intact or in piece meal whenever the oper- do not want to be interpreted as advoation is performed.

dental abscesses and of pyorrhoea alve- conditions unnecessarily. But I do adolaris as the causes of systemic disease vocate a thorough search for foci of is being impressed upon us with ininfection in all obscure cases and when creased gravity from year to year. This a focus is found that it be removed thorough type of focal infections is obviously oughly and promptly.

bacteria causing the young. Infections of this nature

non-suppurative, granulating pathology, may become infected through direct ex-On the other hand suppuration may octension from the throat through the The latter is more easily diag- Eustachian tube or by blood metastasis. The former does not throw a This infection might become chronic, shadow by transillumination but fre-therefore the middle ear and mastoid

infections in the upper respiratory These infections may be syphilitic or tract.

gonorrhoeal, or they may be caused by

6. Skin Infections-While the incipossibility should be remembered. Billings reports two cases of chronic arthritis resulting from persistent infectirely cured.

7. The Gastro Intestinal Tract—The tines are frequently found to harbor focalized infections. These infections are. in the opinion of the author, secondary tioned here because of their frequency

In closing I wish to say, first, that I cating the wholesale slaughter of tonsils, teeth, gall bladder or appendix, or 3. Oral Infections—The presence of the promiscuous operation upon nasal

2. It is recommend that careful study writer, and in 1766 by a German. be made in search for some local infec-

ECLAMPSIA*

George E. Newby, M. D., Hertford, N. C.

Eclampsia, is a subject in medicine, which has challenged medical minds, since medicine became a branch of human knowledge. It creates a problem always, and should attract the attention lieve that the kidney is secondary. of medical men whenever they meet together. It is for this reason that I am not going to apologize for referring to this condition, but trust that it will meet with your approval, to the end, that it will be freely discussed.

Presently I am going to refer to this disease from the angle of the man in country work, separated as he is, often, from civilization-so to speak, and assistance, where he has to depend on his own judgment, and quick action. Most of the papers read on eclampsia are by men associated with well appointed hospitals, where they can command every facility, and all the assistance required. This distinction, however, does not imply a difference in treatment. I would like to emphasize the frequency of these cases already in the throes of this terrific malady, before we are called at all. which puts us on the defensive at once without either the proper equipment, or help.

Definition-Eclampsia comes from two Greek words meaning-out-to flash. To flash out or to shine out. Dorland defines this diseases as convulsions of peripheral origin.

Historical — Hippocrates mentioned convulsions in pregnant women, knew they most often occurred in women who suffered headache, and a tendency to sleep.

Etiology—The cause of this disease is tious process in cases of so-called indi-gestion; chronic and acute nervous dis-vanced. Now medicine regards it as eases: chronic skin diseases and in those one of the three toxemias of pregnancy, cases complaining of general malaise and this is about as far as it dares to with tachycardia, dyspnoea and indefi- discuss it. This toxemia results from nite body pains, particularly when there the accumulation of poisons in the blood is no demonstrable pathology in the that are imperfectly eliminated. The heart, gastro-intestinal tract or lungs, kidney of pregnancy is probably the first gradation which eventuates in this climax.

> The kidney of pregnancy is particularly emphasized by DeLee of Chicago. He takes the position that it is the first step in the evolution of this disease. which would seem to imply that the kidney is responsible for the development of this condition, when many writers be-

> The toxins may be fetal or maternal, in origin. We all know that during the process of gestation that the metabolic activities of the mother are very much increased, and demand a double function of her eliminative organs. To stress the kidney in this condition in my experience is a mistake; for it has been my observation that frequently the urinalysis will show a very large percentage of albumin-even solidify on the application of heat, and still the patient does not manifest in any way the probability of eclampsia. On the other hand I have seen very small percentages of albumin-amounting to only a faint trace. particularly if this is in the presence of a blood pressure of 160 M. M. Hg., should always put us on our guard.

Pathology has been investigated enough by this class of workers to establish lesions in the liver, kidney, brain and other organs. The miscroscope reveals a hemorraghic tendency. The functional structure of the organs is impaired. Where these cases have come to the autopsy table, the liver is always found involved, and simulates acute yellow atrophy. It is for this reason that chloroform is advised against as an anesthetic in these cases, because it is known that this chemical produces the condition referred to. The thyroid gland has been incriminated in causation of this affection. Writers are The word eclampsia was first intro- agreed on a loss of balance of the enduced in medicine in 1760 by a French docrine organs, believing that a correlation—perfectly attained—of the or-*Read before the Seaboard Medical Associa- gans or internal secretions is essential tion, Elizabeth City, N. C., December 7-8-9, to the correct progress of gestation. The decrease of nitrogen-urea is always of

^{1920.}

importance. Williams of Hopkins has tion goes, this is not done now. Armed to the liver, kidney and brain already with a beginning heart lagging. mentioned, autopsy findings are located in the lungs, circulatory system, and even the fetus itself. No special changes are found in the blood.

Clinical Course:

This divides itself into-First: The Pre-eclamptic stage. Second: The attack.

In the pre-eclamptic stage the patient usually complains of headache, gastric distress, sometimes very acute epigastric pain, which may be mistaken for acute indigestion, scotomata, and there may be slight edema of the eye lids, and ankles. Swelling of the legs within itself as term approaches carries very little significance. I have seen this condition particularly noticeable, and still the patient did well.

The two most important things to do are, first, to watch the output of urine for 24 hours, noting especially the urea. and albumin, and secondly, the blood pressure. The percentage of albumin should not concern us unless associated with other phenomena—by this I mean that a 2%-4% albumin does not mean that the patient will develop eclampsia. A trace or faint trace in the presence of a blood pressure of 160 MM. Hg. carries more significance. Right here wish to laud the North Carolina State Board of Health for the step it has taken in pre-natal literature for the education of expectant mothers. It is one of the big things that this Board has done. It is a mistake for doctors to be rebellious to this because they think that it is an encroachment on their professional skill. It is designed to reach all classes, but especially that class of women who do not concern themselves as they should in this borderline pathology. I believe that the Calorimeter is destined to play an important function in the care of pregnant women. If this Phthalein test is valuable in the progress, and prognosis of rental insufficiency, why not apply this to the kidney of pregnancy. So far as my informa-

made it a rule—resulting from recent with a urinary test set, Sphygmomano-studies—to induce labor if the ammonia meter, Calorimeter and doing your duty co-efficient reaches 10% and the blood in the care of these patients will I bepressure reaches 160 MM. Hg. As lieve very materially lessen the inciearly as 1894 the idea of fetal or placen- dence of Eclampsia cases. Another phetal poisoning was entertained. These nomenon I would like to refer to is toxines do not pass through the liver, dyspnoea; this should be considered as and so are not oxidized. In addition an explanation of renal inefficiency,

The Attack.

This is usually announced by the patient falling in coma. The pupils dilate, the eyes are turned, and the head also: the patient usually opens her mouth, and the jaw is pulled to one side. There may be a cry. The whole body becomes rigid: features are distorted: flexed: hands clenched: feet inverted: toes flexed; and the whole body finally passes into a clonic spasm, which constitutes the first stage. Then the eye lids open and close, the jaws snap, twitchings begin in the face, usually one arm, and then one leg, and then the whole body. This is the second stage, or clonic spasm. It is quite possible for the patient to do herself an injury during this stage by being thrown from the bed in this muscular contraction, causing bruises, lacerations, and even fracture of the skull. The tongue is protruded, and frequently injured by the teeth if not protected. Bloody froth makes its appearance in the mouth, and respiration is locked. This locking of the respiration causes evanosis of the face. The blood pressure is usually high, indicated by a hard pulse, which weakens as the convulsions continue. The convulsions usually last from a few seconds to about two minutes, and range from 5 to 15. Oldhausen reports two cases in which 81-104 convulsions occurred in two patients respectively. Both died. Relaxation gradually occurs, and the patient complains of headache, and frequently, muscular soreness. Between the attacks the natient may be quiet or restless, and this restlessness may amount to a mild delirium. Eclamosia usually occurs as late as the 7th to the 8th month during the progress of gestation, during labor and post partum. During labor gives the most favorable prognosis. Post partum convulsions are of interest because of their rarity, and the favorable prognosis that it carries. Leipman's theory is that if the convulsions begin after delivory, or sometime after the death of the fetus:

He claims that if these pathologic find- output. ings are absent you are compelled to able whenmake a diagnosis of Appoplexy, Epilepsy, meningeal disease or reflex irri- severe. tation. After all, this manifests itself because of the destructive effect of poisons on the kidney structure, and in no val between the attacks. way indicates that the kidney is primarily at fault.

Diagnosis—The diagnosis is to be differentiated from convulsions occurring as terminal events in pregnancy from other causes. The kidney is an index to this. If urinalysis fails to reveal casts, and albumin, you are bound to exclude this condition—in as much as present day medical teaching pre-supposes these pathological elements. The difficulty of establishing a diagnosis of eclampsia lies in our unfamiliarity with the history, because these patients neglect to place themselves under our care early enough. The conditions that are most apt to be confused with eclampsia are epilepsy, and hysteria major, and the convulsions of acute intercurrent disease like meningitis. Those ought readily to be distinguished from eclampsie however by reason of the absence of toxic symptoms, except in the status of these affections where the stupor, convulsions, and high temperature supervene, although the history of the case should clarify this,

Given a case of pregnancy with nephritis it is quite possible for uremic convulsions to develop. Uremia is distinguished from eclampsia by the absence of fever, and a history of Bright's Disease. Appoplexy rarely occurs in pregnancy: there are no prodromata, and coma quickly follows.

Cases of eclampsia are on record without convulsions. In these cases you have a history of the kidney of pregnancy, pre-eclamptic state, edema, retinitis, and coma.

Prognosis-Edgar puts the maternal mortality at 35% and the fetal of 50%. The danger of a seizure is forecasted by days. toxemia, albuminuria, diminution in the quantity of the urine for twenty-four proves. hours, and a rising blood pressure. The gravity of the prognosis increases in nancy at which the convulsion occur. prove.

that a poison that has been retained has The danger comes more pronounced, in been liberated and unites with the brain proportion to the increase of albumin, DeLee stresses the marked albu- decrease in water excreted in 24 hours, minuria, and tube casts, in these cases, and a loss of balance of the nitrogen The prognosis is more favor-

1—The attacks are far apart, and not

2-The child perishes.

3-The patient has a conscious inter-

4—The quantity of albumin is small.

5—Decrease of temperature.

6-The seizures occur in advanced labor or the puerperium.

The causes of death are as follows:

1—Exhaustion.

2—Cerebral appoplexy.

3—Asphyxia.

4-Edema of the lungs or brain.

5—Cardiac paralysis.

Note-The quantity of albumin referred to by text books is not substantiated by actual experience—that is—as a danger signal. I have seen eclampsia in more cases where the percentage of albumin was quite small. Here the microscope is the determining factor.

Treatment divides itself into prophylaxis, and treatment of the attack.

Prophylaxis comprises a close surveillance of the patient from conception to the end of term. These physical surveys, and urinalyses should be practiced every three weeks for the first semester, and then every week until confined. "Every pregnant woman should be considered a possible candidate for eclampsia, and our efforts should be directed to that end." The family and previous histories in the cases are very important, bringing out any nervous instability of the parents, grandparents or collateral branch of the family, and especially eclampsia in preceding pregnancies. Three factors demand immediate attention.

1—A diminished urine

2—Albumin, especially if in small percentage.

3—A rising blood pressure.

This consists in:

1—Put patient to bed.

2—Allow nothing but water for three

4—Allow milk after the condition im-

5-Allow starches and the proteid vegetables with the vegetable oils and proportion to the early stage of preg-butter if the condition continues to im-

6—If improvement is progressive one egg a day may be allowed.

but never a free meat diet. Spices, tea, 15.9% as compared with 28.9% in coffee, alcohol, beef, veal, mutton and treated by the conservative plan. pork are strictly inderdicted. Water is usually recommended unless the heart is already burdened. Buttermilk and kumyss is recommended. The salt free diet in these cases has been disappointing. Increase excretion of the bowels. kidneys, skin and lungs. Salines and placenta previae, etc. vegetable cathartics are useful. Encouramounts. The use of diuretics except mixture, diuretin, and the vegetable diuretics has not in my experience been effective. Normal salt solution is useful in starting the skin and kidneys to activity and may be given by hypodermoclysis, unless it is necessary to resort to more energetic measures for the relief of the attack, then it would be wise to practice venesection and administer the salt solution intravenously.

The attack:

ideal thing to do would be to imme- is Cesarean section. This applies to the diately transfer the patient to a well hospital, however, and presently I am appointed hospital, but it is right here going to report a case, which would that I want to emphasize the impracti- have been ideal for this method. but cability of this, because women in the impractical because of environment. country have eclampsia as much or more than the women of cities.

beled as conservative and radical. Be-tion. Cesarean section is preferable, or tween these is a middle ground. An even a bilateral incision as advised by exponent of the conservative method is Berkley and Bonny in their work on Stragonoff. He advises putting the pa- Obstetric Emergencies. tient to bed, protect her from injury, light and noise and give narcoticsmorphine, chloral—stimulate the emunc- especially the tongue, which can be done tories, bleed, and wait the natural ter-very effectively by a clothes pin wrapmination of pregnancy and labor.

An exponent of the radical method is Duhrssen. His dictum is after the first from noises and company. convulsion, put the patient into a deep sleep and deliver at once. The accouch- pneumonia. ers who occupy the middle ground use the medical treatment more or less and hasten labor only if the patient's condition is growing worse.

Carl Baum, Duhrssen, Oldhausen, Seitz and Reuben Peterson have accum- different success. ulated evidence enough to prove that the lowest mortality is in those series should be particularly emphasized. of cases where the patient is delivered under deep narcosis as soon as possible because it increases coma and frequentafter the first convulsion.

Peterson collected 615 cases of early delivery (as soon as possible after the Later fish, chicken, turkey is added, first convulsion), finds a mortality of 15.9% as compared with 28.9% in cases

Methods of choice:

1—Period of pregnancy.

2—Environment of patient.

3-State of cervix.

4-Skill of the operator.

5—Complications, contracted pelvis,

Before the seventh month the fetal age the free use of hot water in large mortality is 100% and therefore it is necessary to procure only enough diliwater is to be discouraged. Basham's tation of the cervix to do craniotomy and extraction.

In the private home, without skilled assistance, it is best to resort to less active measures—puncture of the membranes-the use of dilating bags and manual dilitation. After the cervix is fully dilated and the head engaged, delivery is very promptly accomplished by forceps. If the head is above the brim podalic version and extraction. In the presence of an elongated cervix and a When the first convulsion occurs the rigid external os the method of choice

Manual dilitation requires from one to three hours and not infrequently mu-The two positions held may be la-tilates the parts so as to invite infec-

Adjuvant treatment:

1—Protect the patient from injury, ped by a handkerchief.

2—Procure quietude, keep room free

3—Mop throat to prevent aspiration

Narcotics:

1-Morphine introduced by Veit.

2—Chloral introduced by Winkel.

3-Bromide.

4-Veratrum viridi is used with in-

5—Venesection is a procedure that

DeLee does not approve of morphine ly causes the death of the baby.

Chloroform is to be condemned for EPIDEMIC the reason already mentioned.

Report of three cases out of a series of seven as illustrative of the methods employed by me.

Time, May 15, 1915. Case 1.

Mrs. W. F., age 20, primipara. Had seven convulsions before reaching her. First time patient seen by me. Consultation. One-half grain morphine given subcutaneously. Vaginal examination disclosed an elongated cervix, with a very rigid os. Manual dilitation was practiced one hour without results. The anterior lip of the cervix was seized with a pair of volsella forceps and the uterus brought into view. A bilateral incision two inches long was made. The head was engaged. Applied short for-ceps and delivered. Both incisions were closed with chromic catgut. Temperature 101 the third day. Patient put on three grain doses of quinine at intervals of three hours. Breast was given proper attention. Convalescence was prompt and patient out of bed the tenth day. Fetus dead before delivery.

Case 2. Time, March, 1919.

Two Mrs. S. L., age 28, two para. convulsions before reaching her. Wednesday night. Not in labor. Blood pressure 180 MM. Hg. Gave one-half grain morphine subcutaneously. Venesected her until the pressure fell to 140. When patient reacted gave her a saline and gave her 10 grains Chloral every three hours. This patient went into labor Saturday night about 76 hours from the time I first saw her. Delivered herself. Convalescence uninterrupted.

Time, February, 1917. Case 3. Mrs. J. L., age 31, two para. History of this case was eclampsia in the preceding labor.

Delivered her 11 P. M. Tuesday night. Wednesday 3 P. M., developed eclampsia, 16 hours after delivery. Had three convulsions before I reached her. I immediately gave her one-half grain mortill her pressure dropped to 120. Gave saline by mouth and small doses of chloral for a period of two weeks. Put this case on diuretics.

This patient has been delivered since without any untoward results.

ENCEPHALITIS WITH REPORT OF TWO CASES.

John P. Kennedy, M. D., Charlotte, N. C.

The epidemic of encephalitis in the United States appears but a part of a pandemic, for epidemics of like nature have been reported from different countries. The first case was reported from Vienna by Von Economo in 1917, and in the same year cases were reported from Australia. In 1918 it was reported from France, England. Africa and other countries. Something less than two hundred cases have been reported from our own country but from newspaper reports of sleeping sickness many other cases must have escaped reporting. Of the first 100 cases reported in th's country 31 died. Apparently the later cases have been less severe or else many less pronounced cases are being recognized since the later cases have a much diminished mortality. Barker and his associates report 8 cases without a death.

The pathology of epidemic encephalitis is pretty well understood. It consists of an inflammatory process scattered throughout the nervous system which shows itself chiefly as perivascular infiltration and punctate hemorrhages. The chief pathologica! changes are summed up by Dunn and Heagev as: (1) meningeal oedema and thickening; (2) softening and congestion of both gray and white matter of the brain and pituitary gland; (3) punctate hemorrhages in the mesence halon, thalmus and basal ganglia; (4) thrombosis of small vessels; (5) perivascular infiltration of the small vessels of the brain stem; (6) oedema of the mesencephalic area. The brain stem is most susceptible and accounts for the great variety of symptoms.

Since any area of the nervous system or its covering may be involved with either increased, decreased or perverted function it is not strange that we should find a great variety of symptoms nor that a great many symptoms may be abphine subcutaneously. Venesected her sent in any one case. The onset may be in almost any conceivable way. The most striking general symptom when present is lethargy that may show itself in any degree from dullness to absolute

^{*}Read before the staff of the Presbyterian Hospital December 16, 1920.

stupor. This symptom is present in so early in the disease. Facial nerve about seventy-five per cent of the cases palsies last four or five months and and is responsible for the lay term asthenia lasts six months or longer. "sleeping sickness" and the term given The diagnosis rests largely on three by Von Economo of encephalitis lethar- things: A negative or atypical spinal gica. Usually the patients can be arous-fluid associated with lethargy and eye ed and present a dazed, expressionless symptoms or with either of the latter stare when awakened. Headache is alone. The presence of fever with usually present and may be very severe. either of the above symptoms is very In the first case reported below it was suggestive in the presence of an epivery intense even while the patient was demic. in coma and she said when woke up that Case 1. L. N. J. Young, married it seemed like there was a hammer woman, 21 years old. Appendix removbeating on her head and she continued ed 4 years ago. Has had trouble off and

Laboratory examinations are of value chiefly in ruling out some other disease. The urin is practically normal. The blood shows a very slight leucocytosis with a normal differential. The spinal examination is most important and shows a clear fluid under normal or slightly increased pressure, increase in the cell count, positive globulin and negative Wasserman

The exact cause of the disease is still unknown. That it is infectious in nature seems certain and that the cause is

bed, bland diet, protection from exter- creased cell count. Unfortunately no some cases. In the two cases reported tities. September 17th became con-

to talk about the headache for days on ever since in the right lower abdoafter it was gone. Vertigo, tachycardia, men. In March, 1920, had another opvomiting and fever are other prominent eration for removal of a right cystic symptoms. Fever is usually present for ovary and according to her surgeon, an-part of the course but not usually high. other, or the same, appendix. Patient The focal symptoms are mostly motor; was first seen August 12th with a disthe most common being ptosis or charging sinus following her operation ophthalmoplegia involving either the in- in March. Operation following day and ternal or external rectus. Monoplegias, fistulous tract dissected out and piece hemiplegias, aphasias and contractures silk-worm gut three-fourths inch long may be seen. Diplopia is a very com- removed from below fascia. Wound mon symptom and often the initial and drained slightly following operation and rarely the only symptom. Meningeal patient went home in two weeks. On symptoms are not common. The re- the night of August 8th, less than a flexes may be changed but are about as month from last operation, the patient often decreased as increased. Three had a severe headache and felt queer cases with polypnea are reported with and asked her mother if she were going a respiratory rate of 60 Peripheral crazy. Next day seemed perfectly nor-pain may be present and be severe. mal. That night she became stuporous, failed to respond when spoken to, did not recognize anyone, restless, turning in bed, moving at the sound of any noise and keeping one hand on her head and the other at the back of her neck. At the sound of the train whistle she became very restless and all her muscles became rigid. At this time her pupils were equal, reacted, tongue clean, neck a little stiff and seemed to give pain when flexed but could be flexed. Reflexes including the abdominal all increased. No Babinski, no Brudszinski, no ancle clonus, suggestive Kernig. B. associated in some way with influenza P. 142-80, heart sounds good, pulse 84, temp. 99.2 September 11. Spinal punc-In the treatment prolonged rest in ture clear fluid, normal pressure, innal stimuli, relief of headache and peri- Wasserman was done at this time. pheral pains seem indicated. Lumber Leucocytes 10,100. Patient still unconpuncture has relieved the headache and scious, no localizing symptoms. Patient dispelled the lethargy temporarily in will take food and water in small quanbelow lumber puncture gave temporary scious for the first time in a week and relief to irritability in one case and remained conscious most of the day, that headache in the other. Complete recov- night became unconscious and remained ery without residuals seems to be the so until Sept. 22nd, when she woke up rule in this country. Those that die do complaining of a violent headache, inability to hear out of left ear, pain behind left ear and diplopia. November 11 she got up into wheel chair. She has since shown steady improvement but she is still in wheel chair, December 16 complains of stiffness in muscles of neck and marked indigestion. This patient had not had influenza.

Case 2. L. W. Female, 18. Had bad attack influenza 1918 and again 1919. its prevention and treatment. Had no other serious illness. May 15th and acute appendix. Made good recovery and had no trouble until October sciousness and stayed that way until following morning, when she complained of pain between the eyes and back of the neck. Was in bed for one week having lapsed into unconsciousness and complaining of diplopia. At one time but did not seem just at herself. Following week had three or four attacks of unconsciousness lasting about an hour. When she came out of these attacks she had a wild look in her eyes, pulled at her hair and back of her neck, and on one occasion bit her tongue and hand. She was first seen November 20, cases observed during the spring over a month from the time she was taken sick, and was only under observation two days during which time she had several attacks of marked lethargy. Physical examination was entirely negative except for increased knee jerks and suggestive Kernig. Pupils equal ski, no ancle clonus, no tremor. Spinal puncture showed clear fluid under normal pressure, cell count of 1, albumin 1 plus, Wasserman reaction negative in all dilutions. The diagnosis in this case as in the former one was made on the presence of lethargy, diplopia and an atypical fluid.

PNEUMONIA.

Stuart Mann, M. D., Movock, N. C.

At this season of the year it is well to consider one of the most dreaded of diseases; namely, pneumonia which is now prevalent and is doing its deadly work and will continue with increasing prevalence until after the months. So it is well to reconsider some of the fundamentals of its nature.

The fact that the death rate is inhad operation for right cystic ovary creasing shows that there is need for more careful studies.

Pneumonia is a self limited disease usually running a definite course but 25th when she got up from the dinner sometimes indfinite. Is usually primary table, complained of feeling cold and in origin affecting the right lung and numb, fell on bed, lapsed into unconin origin and either unilateral or bilateral. Many things influence the course of pneumonia, for instance the idiosyncrasies of the patient and the environment all have a great deal to do with the cases; in consequence of which many types have been described.

Croupous or lobar pneumonia is charcomplained of pain in right arm, abdo- acteristic, with well defined symptoms men and leg which lasted for a day, which may be readily and easily made She then got up and was about the house out; viz., the initial chill, pain in the but did not soom just at herself. Fol. will confirm the diagnosis. On the fifth, seventh, ninth, or eleventh day we may look for a crisis and every day the crisis is deferred, increases in direct proportion the probability of trouble, I refer to delayed resolution, abscess or at least tedious convalescence.

This paper is based on a series 1909, 1919 and 1920. The number of cases during this time was forty-three, all well defined types of the disease, the prevailing type being catarrhal or influenza pneumonia. Bacteriologists form us that we have the influenza bacillus, in abundance, located in the smaller bronchi and combined with the diplococus, the true microorganism of and react to light and accommodation, pneumonia. Thus we have a combinamuscles of the eye normal. No Babin-tion which, in effect, is more deadly than the German bullets. It is this type of pneumonia to which I have special reference as being the prevailing type which was very difficult to treat,

It is generally conceded that pneumonia is epidemic at times and with a

^{*}Read at twenty-fifth annual session of Seaboard Medical Association, Elizabeth City, N. C., Dec. 7-8-9, 1920,

fluenza we often have a condition not up reaching 103 to 104, not able to unlike the epidemic type. Aside from sleep, this lasted several days at which ordinary precaution and isolation, which time crepitation was made out posis inadequate, what has been done teriorly with large area involved. A along the line of prophylaxis? The pseudo-crisis was reached on the 10th North Carolina State Board of Health day at which time I congraulated myhas been doing more along health lines self that the case was doing well when than any State I know any thing of. I to my surprise there was a distinct reportance of each county maintaining almost precipitated the third relapse. public health nurses sufficient to meet emergency. It will not be a useless expense as the nurses may find employment in many ways in the counties.

During the spring of 1909 in my first series of cases there were 17 which I had to treat within a period of 21 days and had it not been for able nursing I could not have expected to ger the re- basis as possible. sults I did. Out of one family of 10-7 contracted the disease, 5 recovered promptly, two developed pulmonary abseess which finally ruptured sociationeously. The conincidence in this was that these cases were sisters and the abscess ruptured the same night within

two hours of each other.

tracted the disease another of 5-4 con- mometer. tracted the disease one of this number was an alcoholic over 50 years of age. ed nurse. It is the best spent money He had delirium tremens and a very ever spent to have a nurse and a comslow convalescene. Still living and well. plete case record. Another of this group of the atypical type had delayed resolution complicated is removed, and gown is to be worn by pleurisy with effusion which I as- which opens all the way down the front pirated. This case made a slow yet so as to have easy access for bathing, steady recovery.

A case of last season is typical in

rhea for several years standing, cause tendants may have access on either side. not known, weight 180 lbs. She was Feeding-Much depends on diet. In taken in the usual way with chill, catar- all cases strict directions should be rhal symptoms, headache, backache, given and enforced, especially where sneezing, weeping, in short pains all there is gastro intestinal disturbance,

high mortality. In connection with in- over her body, fever ranging steadly am proud of what our State has done lapse with a similar involvement of the and is doing, yet, it seems that some-other lung and with most excruciat-thing more definite might be done to ing pain. Beginning on the 11th day assist in the prevention of this awful we retraced our former treatment as Measles and scarlet fever, best we could with a slight improvehave no specific treatment yet we are ment. About the nineteenth day there compelled to enforce rigid quarantine was another relapse or an exaggeration and isolation-not so with pneumonia. of all the symptoms with both lungs in-Broncho-pneumonia is a reportable dis- volved posteriorly. At this time we sucease yet it appears that this disease has ceeded in getting a trained nurse and been neglected and many deaths might with careful nursing she made a slow have been avoided had we more efficient but tedious recovery, not withstanding methods of nursing-I refer to the im- that giving a small piece of beef steak

Treatment.

It is agreed that pneumonia is one of the most dreaded diseases and we should direct our treatment to every thing that will aid and assist our patient through the attack. Treatment is mecessarily empirical yet we must place; the treatment on as rational a

The serum treatment is in the experimental stage and we as practitioners cannot afford to accept it, certainly until our State Board of Health has endorsed a definite procedure. This being true, and with no treatment we must study each case not only in the usual way but we should also consider Blood In another family of 8-4 four con- Pressure findings as much as our ther-

In all cases we should secure a train-

Preparation of patient-All clothing counter irritants, cotton jacket, etc.

The room should be on the second many ways which I wish to detail show- floor to secure better ventilation and to ing the importance of scientific nursing, admit lots of sun light—the bed should Patient age 40. Family history good, be a single one and with a suitable she had never been ill except amenor- mattress-bed placed so that the at-

be given very guardedly on account of of note that Tt. Strophanthus is the flatulence. Predigested beef, cerials, ideal cardiac stimulant for children. broths, toast, eggs, fruits, are admisster.

Medicinal Remedies.

In the beginning give hot drinks, hot applications and probably a Dovers powder at night. With the onset we have an over burdened liver, heart, and kidneys and a torpid liver hence the initial dose of calomel, divided dose, followed with a saline—this may have to be repeated as indicated, for flatulence which must be relieved at once and here we get good results with castor oil and assafoetida. A snug cotton jacket, if properly applied, does great good-while it may not affect the pathological condition directly-yet it gives great deal of rest, relieving cough and severe pain. Furthermore it aids resolution and prevents extension of congestion. I realize there are some very eminent men who condemn the cotton jacket yet I have used it on almost all my cases, especially children.

After active elimination I have always used salol and spartein every 4. I will withhold salol, Alternating with carbonate creosote in capsules, every will there be many valuable lives saved 4 hours. With the carbonate creosote I and life will be worth living. combine my stimulant, either stryph or nitroglycerine depending on blood nitroglycerine depending on blood pressure. Usually in the beginning nitroglycerine serves me well and when the blood pressure is about normal I prefer some other stimulant, like strychnin. This should not be started too early; the nitroglycerine brings out the peripheral circulation,-heat radiation so to speak, thereby the tem- science and practice of medicine and perature is better controlled.

lacks quality and the second pulmonic rious problem which will require much sound is accentuated we may use effort to solve and arrange in a practistrychnine. In exceptional cases when cal way. the heart is weak and lacks tone on the then I like digitalis.

In cases when the expectoration is ad-methods. hesive and cohesive, ammonium chlo-

which we often encounter. Milk, should monia with good results. It is worthy

In cardiac failure with edema, adrenable and also liberal quantities of wa- lin chloride is a life saver and should be carefully given either by the doctor or a

trained nurse.

I have used camphorated oil in a few cases but not enough cases to give an opinion. Yet I am convinced of its value and will give it further trial. Complications have to be met as indicated. have given a brief outline of a few cases of pneumonia as observed in three sep-

arate epidemics.

Conclusion—I think there should be several public health nurses in each county to assist in emergencies like we have had in recent times. In illness like pneumonia we have to administer medicines hypodermically and doctors, especially in the rural sections, more efficient assistance. Many tients are not able to pay the price of a special nurse, yet these people need the best and should have competent aid when in need. People who can pay let them pay a nominal price to the county. In this way the death rate from penumonia will be reduced and the sooner hours. Should there be any albuminuria we wake up to the importance of more efficient ways of doing things like betmy salol and spartein. I always give ter roads and better nurses the sooner

GROUP PRACTICE.

By Southgate Leigh, M. D., F. A. C. S., Norfolk, Va.

Attending Surgeon and Gynecologist, Sarah Lee Hospital and Clinic.

The rapid advances made in the surgery during the past few years, Much depends on as near a normal while eagerly welcomed by the profesheart action as possible. When the heart sion, have nevertheless presented a se-

The truth of the matter is that mediright side and a bloody expectoration cine has grown to be too big a science to be handled by old and time honored

Among our predecessors, many great ride in the form of Brown Mixture is men, who became renowned through reindicated, the carbonate of ammonium search and developments, and did much in syrup of acacia works well with chil- toward placing our profession on the dren. Sometimes when there is gastric high plane which it occupies today, distress I give just the plain spts, am- were general practitioners, as the term

was used in their time, men who looked after practically every ailment, med- moment, and say a word about journal ical or surgical, which came to their clubs or reading clubs, or whatever you notice.

Medical education, too, covered a comeven at the best schools. Take for ex-various lines, each reporting and disample the University of Virginia. The cussing new ideas and methods most fastudent of that great medical school, and discussions give men knowledge that was there at a time when it was a fre- they can get in no other way. quently boasted fact that no graduate in medicine had ever failed to pass a State Board of Examiners, and when a majority of the members of the medical corps of the Army and Navy were Alumni of the institution. That was in the days of Cabell, Towles, and Mallet. Knowing how thorough the instruction was under those great master minds, how difficult were the examinations, and how high was the standard compared with other first class schools, it is hard to realize that in those days some men medicine in one year's time.

Now the minimum required in all medical schools is four years.

That shows us what tremendous strides have been made in our profession, in the past few years, how greatly our knowledge has been increased, and how widely the facilities for investigation and treatment of disease have been expanded.

There is no question about the fact that the conscientious men of the profession have been in a great quandary to know how to take care of this advanced situation in a satisfactory manner.

Specializing, starting many years ago, has of course rapidly expanded, until now in every important center there may be found competent men confining themselves to any one of a number of limited lines of endeavor.

These men are making good, are getting better results from their ability to concentrate on more limited fields work, but the problem in a way is becoming still more complex.

The trouble about a specialist is that he sees the case entirely too much from the viewpoint of his specialty. However broad a man he may be, however hard he may try, he nevertheless cannot help being somewhat narrow in his medical ideas and practice.

At this point let me digress for a may prefer to call them.

Such a club is a boon to specialists, if paratively small field in those times, it be composed of a number of men in Essavist was fortunate to have been a miliar to his work. These reports and

> In other words at the weekly meetings, reports are made which from time to time cover all the specialties, medisurgery, children, obstetrics. cine. X-ray, etc., and keep the members in at least superficial touch with the developments of the profession.

I cannot commend to you too strongly the advantages and importance of the weekly journal clubs.

But to return to our original line of thought.

Only too often, the patient goes to succeeded in getting their degree in one specialist when he may need a different one or both. It is hard for patients to differentiate between medicine and surgery. And indeed the surgeon gets a large part of his major surgery from patients who consider that they have medical troubles, and who go to the medical men for advice.

> And even the most sensible of patients do not understand why they have to be sent from one doctor to another, feeling that the man whom they consult should take care of the entire situation.

> We frequently hear of an eminent internist in a large city north of us, who as a routine, sends his patients to from four to seven other men located in various parts of the city, for their special examinations and reports, before giving his final diagnosis and advice.

This gentleman must have a wonderful control of his clientele. But few of our patients would put up with such an expenditure of time and money.

Such an arrangement is unweildy and unnecessary.

But what can the conservative medical man do. He realizes that these various examinations and investigations are often necessary, and he cannot properly do them all himself.

It is to meet this very situation that the plan of group practice has of late, in certain sections, been developed. It is not in the least a new things, but simply a development which is being

forced on the profession by the necessities of the times.

sonal relationship, several men special- fice and hospital arrangements. izing in different lines.

each specialty represented, and to have the group associated in the same offices

and in the same hospital.

If it should not be feasible to have so complete an arrangement it is of course necessary to have the principal ones such as surgery and gynecology, internal medicine, urology and obstetrics tolaboratory workers.

To be successful the members of the group must work together in the most intimate manner and with the greatest interest and harmony. They must feel that the patients coming to the group belong to them all, and must have the

attention of all if necessary.

The great and overshadowing advantage lies in the practicability of frequent and informal consultations, both in the offices and in the hospital. For example a patient is examined by the gynecologist and it develops that there is also possibly some heart or lung trouble. While the patient is still in the examining room the internist is immediately called to pass his opinion on the medical condition.

In long standing digestive disurbances, the patient very properly is sent first to the internist, who does all of the preliminary work, aided by laboratory and X-ray, and when that is completed, and the case looks surgical, calls in the surgeon for advice and if need be operation. And even after operation the watchful aid of the internist is often of great assistance in tiding over difficult and worrying periods.

In a silimar way the internist frequently has need of advice and assistance of the surgeon, the urologist, etc.

There are but few cases coming to a group that are looked after entirely by one man.

The advantages to the professional man lie in their ability to make better and quicker diagnosis, and to give more thorough and satisfactory treatment.

tual advantages, already mentioned, days knows that it is impossible for him there is much saving in time and ex- to keep up in all departments of the propense.

It is not absolutely necessary that the doctors comprising a group be in part-It simply means the grouping to-nership. It is, however, essential that gether in intimate professional and per- they be closely associated as regards of-

Group practice has come to stay, the the ideal arrangement is to have men who have already tried it, are prac-

tically unanimous in its favor.

A common sense arrangement, greatly helpful to both patients and doctors.

It is helping to solve many of the serious problems of the day, and is gradually spreading in those sections where its advantages have become known.

Our remarks so far, giving very gether with the necessary X-ray and briefly some of the advantages of group practice naturally imply that it is appli-

cable only to the large cities.

That, however, is not intended. With necessary modifications the arrangement can be put into effect in the country districts, and I feel that certainly in a few years the country doctors may be forced to resort to it.

On first thought such an arrangement for country practice may appear to be impossible. The solution, however, will come eventually through the proper functioning of the local Medical Societies. In some sections of certain States, including North Carolina, the local societies have become small educational centers, with frequent meetings, well attended, and instructive session and with free interchange of knowledge, experience and advice.

In counties where such favorable conditions exist, and it should be so in a large proportion of them, the development of the modified group practice can be worked out without much difficulty.

Each county, or section, should have an X-ray machine. Let one man do that work along with his general practice, and with the understanding that he will make such examinations for all of the other doctors. Let another man develop a small laboratory where urgent and essential work may be done on the same terms. In a similar way have one man equip himself for difficult obstetrical work, also along with his general practice, but to be ready to help the other practitioners when needed. And so with children, urology, and emergency surgery.

This partial specializing will help the For the patient, in addition to the mu-conscientious medical man, who nowafession. He can, however, while doing

a bad fellow after all. Each of us has inexplainable unless the his imperfections and short-comings, changes are fully recognized. but if we realize fully how short life is,

nobility of our calling, or by word or unprofessional in even the least degree.

ARTERIOSCLEROSIS.

Clarence King, M. D., Franklinville, N. Y.

life has its own particular dangers, the patient happens to be a young or Thus, in infancy the gastro-intestinal middle aged person. In our experience diseases are most to be feared; in child-this form is most apt to occur in men hood the acute infections like measles who have followed occupations which and scarlet fever; while in adolescence call for severe muscular exertions and and early mature life the occupational who have not "favored themselves" diseases and accidents, the more chronic when they could; and they have usually infections as typhoid and tuberculosis been very hearty eaters. It is also met and the various inflammatory troubles with in elderly persons who have led of internal organs and structures pre-indolent lives and who have practiced dominate. But in old age and even in excesses at the table, in the daily but those who have not yet reached the al-not necessarially immoderate use of al-lotted three score years and ten we find coholic drinks and tobacco or in the still other causes occurring as the most pleasures of society. frequent destroyers of life. Here the secondary or terminal infections and kidney or brain. This form is more difthe malignant diseases hold high rank; ficult to diagnose because a blood presbut even these are probably surpassed sure reading furnishes us little or no asby the arterio-sclerotic changes in va- sistance, although the age of the patient rious organs with their resultant com- may arouse suspicion. If the brain sufplications and logical results.

momanometer has undoubtedly been the ing or momentary mental confusion or

general family work, equip himself both means of focusing attention upon the by study and the necessary appliances vascular system and of clearing up in one particular line, calling on his col- some of its problems. We have learned leagues to aid him in those severe or dif- that sclerosis does not always fall with ficult cases belonging to other special the same intensity upon each vessel of the body; but that it may remain local The latter part of my talk may have or nearly so and show itself only by deseemed rather theoretical, but I believe rangements in a single organ or assothe plan can readily be worked out. The ciated structures. Neither is marked only obstacle in the way is the lack of sclerosis necessarially associated with cordiality between doctors, unfortu- much elevation of blood pressure. Even nately existing in certain communities. a reading of moderate height, such as Cur county societies are, by the fre- we had thought well within the normal quent bringing of the men together, limits, may accompany a sclerosis in gradually doing away with such unsome organ or vital structure which pleasantnesses. We are finding out may eventually result in death and posrapidly that the other man is not such sibly under such circumstances as to be

When arteriosclerosis is diffuse or atand how much we may accomplish by tacks a large number of important vesunited effort, such minor matters as sels the resultant symptoms are various envy and jealousy will soon be over- and may be grouped as "cardio-vascular." These include a high blood pres-We must also never lose sight of the sure, marked beading and tortuosity of the radials, perhaps dizziness or syncoact permit ourselves to be unethical or pae and anginal pains or "neuralgia" in various locations. Besides these there are apt to be functional disturbances of the abdominal organs due to their faulty blood supply. Such cases ought to be easily diagnosed but unfortunately they are often overlooked for some time on account of the undue prominence of the In the plan of Nature each period of functional symptoms, and especially if

Local arteriosclerosis generally means fers the greater part of the arterial de-It is only within the last few years generation an apoplexy or a thrombosis that either the common occurrence or may be the first indication of serious the serious nature of arteriosclerosis trouble; sometimes, however, there may has been fully recognized. The sphyg- be slight antecedent dizziness upon rislapses of memory for names or recent events. But these are seldom severe enable enough to cause more than trivial annoyance and the patient himself and those about him usually consider him as in good physical condition, consider- 1920-21. ing his age.

When arteriosclerosis falls mostly upon the kidney there may or may not be marked elevation of blood pressure; usually we find a fixed and rather low specific gravity of the urine and a mod-The condierate amount of albumen. tion then closely resembles that of chronic interstitial nephritis; in fact it may be difficult or impossible to differentiate between the two during life, although many authorities, especially those of the Boston school, insist that the conditions are essentially different and that in the sclerotic disease the changes in the parenchyma, if they exist at all, are secondary to the vascular. Probably we can state that in the arteriosclerotic kidney the albumen will be greater in amount while the tube casts, both hyaline and granular, will be few, the blood pressure lower and the retinal changes, if any, scarcely perceptible.

CZECHO-SLOVAK COMMISSION

The International Health Board the Rockefeller Foundation announces a co-operative program in public health, agreed upon with the government of Czecho-Slovakia. This program provides:

1. Lending to the Czecho-Slovak government the services of an American competent in Public Health Administration.

2. Fellowships for training a select group of young Czechs for service in the field of Public Health.

3. Co-operation in the development of a national public health laboratory tor in Bratislava, Slovakia.

study public health administration in and Washington. Scenes of Rural Health the United States and England.

begun some time ago, and to carry it out Columbus. Colonel F. F. Russell went to Czecho-Slovakia last July. He was followed in October by Professor Selskar M. Gunn. formerly connected with the Public Health Department of the Massachu- Society will be held in Spartanburg, S. setts Institute of Technology.

Fellowships have been provided nine medical representatives from Czecho-Slovakia to pursue courses in public health, hygiene and preventive medicine in the United States for The nine successful candidates are as follows: Dr. Dohnslar Pour, Dr. Zdenek Klan, Dr. Ferdinand Tomanek, Dr. Otocar Fierlinger, Dr. Jesef Vesely, Dr. Bohuslar Feierabend, Dr. Vaclar Hee, Pr. Vaclav Dasek and Dr. Francis T. Netusil.

The nominations of these cand dates was approved in joint conference between members of the Czecho-Slovakian ministry and two represtatives of the International Health Board, Col. F. F. Russell, Advisor in Public Health and Laboratory Development and Edwin R. Embree, Secretary of the Rockefeller Foundation.

Public announcement of their fellowships has been made in Czecho-Slovakia by the Minister of Hygiene and those accepting the preferred courses agree to serve the Ministry for from three to five years after their return America.

Five members of the Commission from the Ministry of Hygiene of Czecho-Slovakia have recently arrived in America as guests of the Foundation. They are:

Dr. Vladimir Basika. Chief of the Medical and Sanitary Department of the Ministry of Public Health of Slovakia.

Dr. Drhumil Vacek, General Medical Health Director in Brno, Moravia.

Dr. Ivan Halek, Member of Parliament, and General Medical Director in Bratislava, Slovakia.

Mr. Antonin Kolinsky, General Director of Administration and Finance in the Ministry of Public Health, Praha.

Dr. Vladimir Petrik, Medical Inspec-

They will make a tour of the country, 4. Expenses of a Czech comission to which will include visits to Baltimore Work in North Carolina, and Boston, This program is based upon studies Albany, Saranac, Toronto, Chicago and

> The next meeting of the Tri-State C., Feb. 16-17.

The New

Charlotte Medical Journal

Published Monthly by the Charlotte Medical Journal Company

M. L. TOWNSEND, M. D. Editor.

J. C. MONTGOMERY, M. D. Executor of the Estate of the late Dr. Register

CHARLOTTE, N. C.

"Read not to contradict and confute, nor to believe and take for granted, nor to find talk Dr. J. Allison Hodges will present a seand discourse, but to weigh and consider."- ries of monthly letters entitled "Clinical Francis Bacon.

GREETINGS.

We wish for you all a most prosperous and happy year. Formally stated perhaps but genuinely heartfelt.

A general survey of all trade journals indicates that from this date there will be a gradually increasing confidence in all lines of business and that the country now is beginning a new era of solid growth and prosperity.

Certainly money will not be thrown to the winds with such wild abandon as has been, but what is better is that what money we get will be worth par.

Possibly no class or profession reflects the general business and community conditions more quickly than the doctors.

With the country's conditions improving we can wish for you and bespeak for you a prosperous and happy year with every assurance of fulfillment.

1921 Prospects.

The Journal is glad to tell you that we have good things for you this year.

whose father in 1877 was one of the Sooner or later the good worker pulls founders of the forerunner of the Charlotte Medical Journal, will serve as De-Editor of Medicine. Dr. Wood's work on Pellagra has given him world recognition and his recent two study and gasoline in extra trips to apyears in England, Europe and Africa where he has been studying the peculiar of the man who lounges in the arug conditions and diseases prevalent in the tropics and sub-tropics places him in a position to speak with authority on the subjects so vital to every doctor in the the blacksmith or Joe Smith the bar-South Atlantic Coast States.

In addition to the regular department. of Medicine which he will conduct with reviews of the latest literature and practical every-day hints to the medical men he will submit various original articles on pertinent subjects, among which will

"Schistosomiasis or Bilharziasis."

"Sub-acute Infective Endocarditis."

"Sub-acute Combined Degeneration of the Spinal Cord."

"Kala-azar," etc.

Beginning with the February issue and Professional notes."

Dr. Hodges needs no introduction to the profession of "Dixieland," for every one of our thousands of doctors know that for years he has been in the very front in the battle to place medical science on the very highest plane.

His "Clinical and Professional Notes" will summarize and deduct practical lessons from years of experience and interpret these in the light of modern advancement.

The Journal is also glad to announce that there will be contributions from many others of the foremost men in the profession, so that we start the new year with the assurance of a bigger and better Journal than ever before.

The February issue will come to you bearing a new name but continuing the same publication founded in 1877. It is not local in purpose or inclination. It is for every doctor and nurse everywhere but directed especially to the 40,000 doctors and almost as many nurses in the territory of the Southland.

RESULTS.

We all want to get on. We all want to earn more. The way to earn more is For one thing-Dr. Edward J. Wood, to learn more-and then do more. ahead of the poor worker. Sooner or later the doctor who, when he finds a puzzling case, burns "midnight oil" in ply his knowledge, is going to pull ahead store or his office, and surreptitiously boasts his superior skill to Bill Jones ber.

As water seeks its level so such a man will strike, or has already struck, his level. Truth crushed to earth shall rise again. In spite of all his pretense the people who furnish him his bread will know the truth-that he is a mediocre man, with more interest in "setthan in typhoid, measles or mumps.

Aren't we all willing to pay more for measure up to to be admitted a fellow. a good suit of clothes or a good pair of shoes than for a poor suit or poor shoes. The world is looking more and more in every line of endeavor for results. It's results that count. It isn't the number ance. of visits but the value of your visits to the patient that should be the unit of measure of your worth. To assume the responsibility of any case and then fail to do the very best it is humanely possible for you to do is nothing short of fraud and is as rank quackery as to advertise in the public press some "life giving balm" for all the ills of mankind including tuberculosis and ingrowing toenails.

To go a dozen times for a simple trouble that could have been corrected at once is obtaining money under false pretense and is only permitted because the person you go to see is ignorant of the real facts.

Qualify yourself to supply high grade service, then render that service—get results-and the other fellow will eat your dust.

The Tri-State Meeting in Spartanburg, S. C., Feb. 16-17.

The present indications are that this meeting is going to be the very best ever held by the Tri-State Society. The program is now practically made up and is filled with papers by the very best men, members and invited guests, and is so arranged that no time will be wasted. There will be, however, plenty of diversion and entertainment so that it is predicted that every man attending this meeting will return home feeling well repaid for his trip.

Meeting of N. C. Surgeons.

Preparations are progressing in way to assure a most important meeting in Charlotte January 20-21 of the North Carolina section of the Clinical Congress of the American College of Surgeons.

The program as announced in this Journal last month will be carried out practically as announced.

Speakers and guests of world prominence will be present and a lay meeting in the Auditorium the night of January 20 will explain openly and to everybody back" or checkers and his own pretenses just what the American College of Surgeons stands for and what a man must

> This meeting will be of peculiar interest to laymen as well as doctors and there is every indication now that the meeting will have a crowded attend-

A NEW NAME

"The American Physician"-Our old friend "The Medical Council" comes to us wearing a new dress and a brand new The Medical Council has long name. been the sweetheart of the American Physician and always devoted to his best interests—hence it is most fitting and proper to assume the new name. that the twain may march hand in hand to greater achievements and nobler deeds. We know the American Physician and the journal now bearing his name are absolutely devoted to each other and we hope that hereafter every American Physician will solicit the good council and sound advice of this spouse in helping him to solve his problems of the day, To "The American physician" nee "The Medical Council" we extend our heartiest congratulations and best wishes for a long and useful life.

International Public Health Journal. The first number of the new International Health Journal is now out, issued by the General Medical Department of the League of Red Cross Societies at Geneva, Switzerland. journal will be devoted almost entirely to public health work and preventive medicine and will be published every two months in four languages, French, English, Italian and Spanish. The editor is Dr. T. R. Brown, of Baltimore, and associate editor is Dr. W. F. Frana cis, of Montreal.

The next meeting of the Tri-State Society will be held in Spartanburg, S. C., Feb. 16-17.

BUBONIC PLAGUE IN U. S.

Rio Grande, in this long coast line, some 1907 and 1908 that is in marked contrast one of our readers will one day meet his to that of 1900 and 1901. Doctor Blue first case of Plague. This may be you was again called and early placed in and it may be the other fellow but we charge and, with his previous experibelieve all doctors in this territory espe- ence and the unanimous support of all cially will be interested in the following interests, carried on the work under the history of bubonic plague in the United most favorable conditions, the details States as quoted from a very interesting of which and results attained being too article by Dr. W. H. Kellogg, of the Cali-well known to need description here. fornia State Board of Health, which ap- The epidemic lasted six months, and the pears in the December issue of the total number of cases was 160, with 77 American Journal of Public Health:

discovered in the Chinese quarter.

Board of Health, and the case was referred to me by the city physician, who was required to sign the death certificates of Chinese dying unattended by white physicians. We had been on the lookout for plague, as it was present in Honolulu, which port it had reached on its westward march in December, 1899.

"This case was proven bacteriologically to be plague, and the Board of Health of San Francisco, on receipt of the preliminary findings, placed the entire district known as Chinatown, comprising about twelve square blocks, in quarantine, the quarter being roped off and police placed on guard.

"The events which followed will be referred to later. For the present, suffice it to say that the disease continued to manifest its presence by the discovery of cases now and then until a total of 121 cases and 113 deaths had been reached by February, 1904, when the last case of this series was found.

"In May, 1907, a year after the great fire and earthquake, plague was again discovered in San Francisco. A sailor taken to the Marine Hospital from a tug in the bay was found to be suffering from plague, but he died without being able to give any account of himself, and the tug was lost off the Mendocino coast, thus effectually blocking any further investigation. On August 12 the second case of the second epidemic appeared, followed by 13 others before the end of the month.

cluding the politicians, the press, and Merced 1, Monterey 3, San Benito 16,

the doctors, had learned their lesson in the first epidemic, and, as a conse-Somewhere between the Potomac and quence, we have a history of events in deaths; this time not in the Chinese "The first appearance of plague on quarter alone, but scattered all through the North American Continent was in the city. The last case of the series 1900 at San Francisco, when the body occurred on June 30, 1908. During the of a Chinese, dead of this disease, was year 1907 seven cases were found in Seattle, Wash. In the years intervening "I was then bacteriologist for the City between February 1, 1908, and the end of the year 1915, inclusive, sporadic cases of human plague of squirrel origin occurred in California to the total number of 13 in the counties of Los Angeles, Alameda, Santa Clara, San Benito, Contra Costa, San Joaquin and Monterey. During the years 1916, 1917 and 1918 no cases of human plague are known to have occurred anywhere in the United States. Extension of the infection to the ground squirrel population of the rural territory adjacent to San Francisco was first demonstrated in August, 1908, although it is probable that the infection was carried from rats to squirrels in the vicinity of the Port Costa warehouses during the first epidemic in 1900-1904. This probability is indicated by the occurrence of two deaths from plague in widely separated locations in Contra Costa County in August, 1903. The ground squirrels of this state have, therefore, harbored the infection for nearly twenty years, and if it is not eliminated from among them by a very wide and exepensive campaign of extermination there seems little room for doubt that a permanent endemic focus has been established. The extent of plague prevalence among the ground squirrels is shown by the following figures from the Public Health Reports of recent date. For the period of the report, which varies with different counties from a few days to three months, ending July 10, 1920, infected squirrels were found as shown below. Alameda "The citizens of San Francisco, in- County 28, Contra Costa County 46,

found was 398, the last one having been New Orleans. discovered in October, 1908, and in Oakinfected squirrels found being 1,698.

ground squirrels.

"This appearance plague in epidemic form, small as was land." the outbreak, is very disquieting. Plague of squirrel origin seems particularly prone to attack the lungs when transmitted to man, and the danger is that in another such series of cases a sufficient degree of specific organ virulence may be developed to insure the rapid spread of this type. If the conclusions of Teague and Barber are correct, and they appear most plausible, there is much to be feared from this contingency under circumstances permitting extension to some of our eastern states in winter. It is easily possible for a person, after inoculation by a squirrel flea, to travel to some eastern point, reaching his destination before the onset of symptoms. If now he develops a bubo with a secondary pneumonia, as did the first case of the Oakland series, in the proper climatic surroundings for transmission of the infection, the role of plague as a narecognized. In October of this same year plague reappeared in New Orleans, following an interval of nearly four years since its first appearance in that city. This was followed by three more in October, three in November and five in December.

"So far during the present year sporadic case of squirrel origin), in New Orleans (three cases in May and June), in Galveston, Texas (two cases), in Penthree in July), in Beaumont, Texas 2.3 in 1919.

San Mateo 3, San Joaquin 4, Santa Clara (seven cases between June 26 and July 12. Santa Cruz 26, and Stanislaus 2. 18), and in Port Arthur, Texas, one "The figures for the total number of case in July). Rat examination by the infected rodents found since the begin- Public Health Service in the abovening of the work in 1907 are startling, named cities discloses a rat epizootic in In San Francisco the number of rats Pensacola, Beaumont, Galveston and

"The disease is present in so many land 126 rats, the last one in December, countries now that a list of those har-1908. Alameda County has a record of boring it would include most of the na-431 squirrels, the last being found in tions of the world. In Europe it has September, 1919. Contra Costa County been reported recently in Greece, Engholds the record, the total number of land, Italy, Malta, Russia and France. In July, 1919, a dock laborer in Liver-"Following the decade ending with pool died of plague, and there is little 1918, plague showed a tendency toward doubt that the infection prevails among recrudescence. In Oakland a series of the rats of that city. Human cases have 13 pneumonic cases occurred in August, recently been reported from Hawaii, and 1919, the first of the series having its a sharp outbreak is in progress in Vera origin in exposure to plague-infected Cruz, Mexico, where it was first discovered in May of this year. Several cases of pneumonic have occurred recently in Newfound-

Pellagra and Income Vary Inversely.

Washington—That pellagra varies inversely with the family income in the cotton mill villages of South Carolina is the conclusion drawn after a three-year study by the U.S. Public Health Service. This is the first reported study in which the long-suspected relation of poverty and pellagra is definitely measured.

As the income fell the disease was found to increase and to affect more and more other members of the same family. As the income rose, the disease decreased and was rarely found in families that enjoyed the highest incomes, even though this highest was still quite low.

Differences among families with the tional problem would be immediately same incomes are attributed by the report to differences in the expenditures for food, intelligence of the housewife, and ownership of cows, gardens, etc. Differences among villages which were economically similar are attributed to differences in the availability and condition of food in local markets.

A recent statement by one of the plague has occurred in California (one largest life insurance companies in the United States indicates that the food standards of Southern wage earners must have improved remarkably of late, for the death rate from pellagra has sacola, Florida (four cases in June and fallen from 6.7 per 100,000 in 1915 to

Urology

A. J. Crowell, M. D., Department Editor

Treatment of Gonorrhea.

Inasmuch as the essential pathologic lesion of the chronically inflamed urethra is an infiltration of its submucosa. thritis, according to Edward L. Keyes, sidering that 32% of abortions are crim-Jr., New York (Journal A. M. A., Nov. inal, is important and lies in the educais the lesion that we are seeking to re-compromise. lieve. Dilatation should not attempt to cannot be stretched. The anetrior ure- vince ourselves-a most important point gations, however antiseptic, to the surpelled. face of the urethral mucosa can have Our but little effect on its pathologic pro-city and can be kept under observation, cesses. A mild urethral discharge may if we believe the chances are in favor be controlled by a mild injection, and of her having passed all the products, for this purpose astringent injections of we keep her in bed for a week, then up zinc sulphate and similar substances are in a chair for a few days and under obfar more efficacious than are the anti-servation for a month. If no further septics. If the treatments are gentle, it hemorrhage has occurred we do not is often quite as well not to introduce consider further treatment necessary. any antiseptics into the urehra; but But if she lives out of the city or hos-when beginning with a patient, or if pital time is an important economic facthere is any possibility of a reaction tor, we prefer to be sure the uterus is following the treatment, an antiseptic empty before discharging her. If the which washes out the major number of case is obviously incomplete and there bacteria and tends to diminish the vi- is no sepsis. the uterus is emptied with tality of others is worth while. Mas- the gloved finger, under an anaesthetic, sage of the prostate and seminal vesi- and she is kept in bed for a week aftercles is the best substitute for the pro- ward. cesses of Nature, and has the added advantage of being conducted in a rela-kept in bed on a liquid diet, the bowels tively calm spirit. The urethroscopic moved each day and no treatment of a treatment of granulations in the poste- local nature given until the temperature rior urethra by the application of chem- has been normal five days. The infecticals is most useful in cases that resist ing organism in these uteri is usually treatment by diletation. But the streptococcus and any stirring up treatment by dilatation. But the ure- of the uterus earlier than this means throscopic treatment is not to be con-diffusion of the process in a very large

sidered one of choice to replace dilatation-dilation is always the essence of the treatment of chronic urethritis.

Gynecology and Obstetrics

Robt. E. Seibels, M. D., Department Editor

The Treatment of Incomplete Aborthe essential treatment of chronic ure-tion—The prophylactic treatment, con-13, 1920), is dilatation which shall be tion of the public and the cleaning up made to simulate massage as nearly as of the medical profession. There are possible—dilatation applied both to the probably but few of us who are not apanterior and to the posterior urethra so proached from time to time with some far as the inflammation affects both moving story of hard luck. Some of portions of the canal. Dilatation should these cases are very sad and sometimes not cause bleeding; for bleeding is evi- one is stirred to the depths by the force dence of laceration, laceration is the of the appeal, but the law is clear and occasion of infiltration, and infiltration the ethics are plain-there can be no

Where an abortion has occurred and stretch scar tissue, because scar tissue we have seen sufficient proof to conthra may profitably be dilated to from is to be on guard against deception. 28 to 32 F.; the posterior urethra (by The question arises whether it is better means of the Kollman dilator) to from to clean out the uterus and treat the 33 to 38 F. The intervals between treat-case as an incomplete abortion or to ments should be from five to ten days, await symptoms, hoping that all the The application of injections and irri- products of conception have been ex-

Our rule is, if the patient lives in the

In a septic abortion, the patient is

peated hemorrhage.

hering to the endometrium. The uter- ence of acute infection. ine cavity is then gently wiped out with gauze packing. There is usually no well as afterward, fresh air and nour-hemorrhage and no packing need be ishing food is of the greatest importfifth day when the cervix is usually well normal involution of the uterus. contracted and should be given with care to avoid allowing the tip to enter the cervix and to be sure that the force of the current is not sufficient to carry fluid past the cervix.

The sponge stick is the only instrument we use in these cases and this only with the greatest caution—nor do we ever use the intra-uterine douche. The possibility of rupturing such a diceal abscess.

est pressure on the fluid in the uterus the topographical physiologist. may be sufficient to force it out through but little is accomplished by it.

number of cases—pelvic abscess, pelvic therefore time is saved by emptying the peritonitis and even general sepsis. The uterus at once. This is not in accordonly indication for local treatment dur- ance with statistics, for Hillis (Surg., ing the febrile period is severe or re- Gyn., and Obstet., XXI 605) analyzed 200 cases and found that the stay in After five afebrile days, if the cervix the hospital was shortened, the compliis not patulous, the vagina and lower cations fewer, the mortality lower and uterine segment may be packed with the end result better where essentially gauze for 24 hours, and under an an- this treatment was carried out as opaesthetic the gloved finger is used gent- posed to cases subjected to radical and ly to remove the pieces of placenta ad- prompt operation procedure in the pres-

left in. The after treatment is as given ance and the patient should take the above. Douches are, as a rule, not nec- best care of herself for at least three essary and are never used before the months after the abortion, to promote

NEUROLOGY.

R. F. Leinback, M. D., Department Editor.

APHASIA AND THE LINACRE LEC-TURE FOR 1920.

Among the clinical manifestations uterus is a real one—cases have been of organic brain disease, no symptoms so frequently reported where the most have furnished a more absorbing intercareful operators have plunged through est to the neurologist than the speech the softened uterine wall with the curet disturbances — aphasias. Why this or the douche tip. Further the curet should be so is not difficult to undereasily tears through the endometrium, stand. The intimate relationship existmay open the adjacent sinuses, dis- ing between all intellectual processes lodge a thrombus and set up a spread- and the use of language symbols estabing infection. Indeed, it seems no more lishes the close psychic connection on logical to use a curet in an infected the one hand, while the apparent deabortion than on the wall of an appen- pendence of the proper exercise of the various language functions on the in-Flushing out the uterus with a solu- tegrity of certain more or less sharply tion is a relatively safe procedure only defined areas of the brain fixes neural with a wide open cervix—for the slight- relationships assuring the interest of

Speech is a distinctive possession of the tubes, as we have seen it strikingly man as against the lower animals, thereillustrated at Cesarean Section. Here, fore, animal experimentation has been with little or no back pressure, blood precluded and all data for the construcruns out of the fimbriated extremities tion of theories of aphasia have had to of the tubes in many of the cases. So come from the observation of disease or it is only a relatively safe procedure injury in man. In the beginning of the with a wide cervix and a very slight nineteenth century Gall enunciated the head of flow, and with such a cervix, then obtaining views of the nature of drainage of the uterus is so perfect that aphasia. Since that time contributions, both of fact and theory, have been set Those who treat these cases less con- forth by eminent men of all countries. servatively point out that the tempera- Most important were the works of Broca ture often comes down very rapidly in 1861 and of Kernicke in 1874. At the after these cases are cleaned out and end of the nineteenth century it appeared established that aphasias were tion of new types of aphasia, he finds the nature of aphasia.

recent issue of the journal "Brain," and reader should consult the original arti-occupies nearly the entire number. This cle, as space does not permit here. lecture once again throws open the en- It is not too much to say that the a faculty of language.

The presumptive recovery of the cases studied by Sir Henry apparently precluded any contribution to topical learning was once asked how he mandiagnosis of aphasia. His cases have aged to know so much. "I don't know ly, and with the addition of various to find the things I want to know." new tests of his own designing. finds that the aphasias, when fully analvzed, do not fall into the generally accepted groups. The entire group of er seen Judge Gary rushed." Perhaps aphasias, as classified today, are reastable to the secret of his ability to direct sembled and fused by Sir Henry under the largest organization in the world. th head of disorders of "Symbolic He keeps a level head and makes every Thinking and Expression" and then minute count. subjected to an analysis based on the results of clinical examination by his Society will be held in Spartanburg, S. test. While warning against the erec- C., Feb. 16-17,

due to the destruction of brain centres that his aphasics may be grouped under in which were stored visual, auditory four headings, insisting, however, that or articulatory "memories." The year it is necessary to consider that these 1906 found the accepted views of the forms do not necessarily represent the nature of aphasia assailed by Pierre elementary basis of the acts of speak-Marie, with the advancement by him of ing, reading and writing. The four the conception that all aphasias were forms of disociation of symbolic thinkthe conception that all aphasias were forms of disociation of symbolic limit-built on the same functional base with ing and expression Sir Henry gives us the addition of anarthria (or aphemia) are (1) Verbal Aphasia, (2) Nominal as the motor element. In 1908 an im-portant discussion was held in Paris on Semantic Aphasia. Briefly, the first is a defect of word formation. The second Now again the subject of aphasia has is a defective use of names and want of been subjected to a critical exhaustive comprehension of the nominal value of analysis by the eminent British neu-words or other symbols. The third is a rologist, Sir Henry Head. Seizing the jargon aphasia; while the fourth is charopportunity presented by the war of acterized by a want of the recognition studying a large series of cases of head of the full significance of words and injuries with aphasic symptoms, Sir phrases. The meaning of a word or Henry has collected a mass of valuable brief phrase may be understood, but the data which he presented last year in synthesis of ideas derived therefrom is the Linacre Lecture for 1920. The full lacking. For fuller appreciation of the text of this lecture appears in the most distinctions between these forms, the

tire question of aphasia. The conclu-attention of neurologists the world over sion which he reaches can scarcely be will be focussed on this communication said to uphold any of the prevailing the- of Sir Henry Head. It is possibly unories as regards aphasia. The older likely that his classification will at once view of localization of language "facul- be accepted. This being the first exties" is opposed vigorously, likewise the haustive communication on aphasia view that aphasias are dependent on growing out of war experiences, further destruction of visual or auditory "im- communications on this subject from ages." The theory of Marie and the investigators of other nations engaged French School is likewise repudiated in the war, particularly the French It is very interesting to note his words School, will be awaited with intense inof commendation for the sagacity of his terest. However, the Master and Counfellow countrymen of a preceding gencil of St. Johns College, Cambridge, eration, Hughlings Jackson, in protest-have done themselves honor in selecting ing as early as 1866 against the idea of this eminent investigator to deliver the Linacre Lecture in 1920.

A man with a reputation for great been studied from the clinical side whol- much," he replied, "but I do know where

His associate once said: "I have nev-

The next meeting of the Tri-State

Orthopædics

Alonzo Myers, Department Editor

by Means of Screw and Plaster Splint.

By Kurt Ansinn, Archiv f. Orthopaed. u. Unfall Chirurgie.

is undesirable.

The technic is as follows: A long foot. screw (a) is driven into the fragment has already occurred.

The author says he has used this success.

Bone Changes in Feet Following Frac- sense of pain. ture of Vertebra.

Lloyd Bryan, M. D.

Am. Jr. Roentgenology, 1920, Vol. VII, Page 3.

fourth digit of left foot one year ago. There was a small ulcer of the left foot at base of fifth digit.

Roentgen examination showed flattening and thickening about superior surface of both ankles. There was a Reposition and Retention of Fractures loose fragment on the right side. The left foot showed dislocation of the third metatarsal phalangeal articulation and erosion of the distal end of proximal phalanx and sharp spur on lateral sur-The author describes a new and very face. The proximal phalanx of the fifth simple method to gain perfect apposi- digit showed erosion of the base and tion of the fractured ends, whenever hypertrophic changes. Relatively simi-traction has failed and open operation lar pathological changes were demonstrated in various parts of the right

The other is a case of fractured verwhich cannot be reduced. The screw is tebra eight years previous, the left limb placed perpendicularly to the bone only being affected. He now has anes-After that a plaster of Paris splint is thesia of left heel and posterior portion applied leaving the end of the screw out of ankle, plantar and dorsal surfaces of of it. Over the protruding part of the lateral portion of foot corresponding to screw a metal disc (b) is placed and a the cutaneous supply of the external nut is screwed on. After the splint has saphenous and internal calcaneus and hardened, the nut is tightened with a external plantar nerves. There was an key (d) until the fragments are in po- ulcerative area on the plantar surface of sition. This process takes place behind left heel, and sinus leading to the bone. a fluoroscope. The screw is left in place Roentgen examination showed increasabout fourteen days. At this time it is ed density of os calcis of lower tworemoved with ease and safety that the thirds. Plantar surface is broken up fragments will hold since consolidation into several fragments, and hypertrophic changes exist.

The deduction from these cases is method in various cases and with great that the bony changes may be accounted for by the theory of repeated trauma to bones or joints lacking the warning

Orthopedic Deformities Due to Calcium Deficiency.

Frank E. Peckham, Providence, R. I. Attention is called to the fact that (Journal A. M. A. Nov, 13, 1920), asbone changes are associated with nerve serts that knock knee, bow legs, flatfoot, lesions and are frequent. Among these lack of union or delayed union in fracare Charcot joints and changes in the tures and even arthritis may be the diphalanges, metacarpals and metatarsals rect result of calcium deficiency and in leprosy, and syringomyelia. Little that sterilized and pasteurized milk attention has been given to the bony plays a great part in the causation of changes in legs and feet following frac- these conditions. When calcium metature of the vertebra, hence these cases. bolism is interfered with, the mucous The first is that of a man who eleven membranes may suffer in direct conseyears previous had fallen from a scaf- quence. Here seems to be a line of fold, fracturing the spine and giving thought that directly connects an intypical symptoms. To the present the crease of intestinal mucus and consesensory disturbance of feet and legs had quent dyspeptic conditions with patients not improved; the legs showed muscu- who began life as bottle-fed babies. This lar atrophy and the toes plantar flexion. kind of reasoning at once places calcium Contracture had necessitated amputa- deficiency as, at least, a factor in a certion of the second and third digits of tain percentage of cases of arthritis; right foot three years ago, and of the and if this is taken into account, it In any deformity, Nature always tends association. to make the part grow back to normal if the physiologic machinery is working her training school is also required. properly. When orthopedic deformities 'This of course, is a little trouble or "red are brought for treatment, the funda- tape," as some are pleased to call it. It mentals resting on the physiologic pro- is much easier to send \$10 or \$5 and cesses must be taken into account. The have no questions asked, and this would results of such treatment are very evi- be all well and good, if all women calldent. If fresh uncooked milk, orange ing themselves nurses were registered juice, and in many cases, thyroid ex- nurses, but they are not. tract, are administered, the difference in the result obtainable is often remark- years in preparing yourself to practice able. Another important thing is the your profession, want to work in hosaddition of lime water to all milk given. pitals, in homes, and elsewhere with Cow's milk is acid, and in the winter these self-styled nurses, receiving in when ensilage is used, the acidity is many cases the same remuneration, the much greater. All milk should be test- same credit and the same criticism? ed with litmus and sufficient lime water added to render it alkaline. It should tories prevent this?" not be guessed at. The acidity may nullify any good that might otherwise with a central directory, and if every he derived.

Nurses Corner Edith M. Redwine, R. N., Dept. Editor

What is a central directory and

what benefit will it be to me as a nurse doctor or a lay person?

Miss Grace M. Cook, of Indianapolis, in makes them headquarters for its local a paper read at the convention of the committees on Red Cross nursing serv-Indiana State Nurses' Association and ice. published in a current number of The American Journal of Nursing.

troled by nurses, not by a nurse or an the recent epidemic of influenza, when for the best interests of their profes- and doctors could not be reached for sion, not for pecuniary profit. It is, or hours many people called to ask what should be, a headquarters for nursing preventive measure they might adopt be continually struggling for existence? question but fleas invaded many homes A nurse, to register with a central di-this summer, and they are a real menace graduates to take their State board ex- ice. amination, and time is allowed new nurses coming into the State, to take a central directory, say, "But I do not out their reciprocity papers.

that she is a member of the district as- and you are a unit in that profession.

will afford much aid in the treatment. sociation, State association, and national

A letter from the superintendent of

Do you who have spent at least three

But you say, "How can central direc-

If every registered nurse registered hospital and every doctor called a central directory when in need of the services of a nurse, how long do you think these self-styled nurses could last? It is the duty of nurses to make the central directories 100 per cent efficient, and then to teach the hospitals, doctors and the public to use them.

The national Red Cross realizes the usefulness of these official directories This question is ably answered by and whenever and wherever possible it

Business and professional men and women make use of them. It would be "A central directory," says Miss impossible to enumerate the many ques-Cook, "is an institution, owned and contions asked of them each year. During individual, and operated for nurses and nurses were scarce because of the war, interests and an aid to the medical pro- and only recently early one morning, a fession and the public in securing ef- woman called a central directory to ask ficient care for the sick. Then why if what she might do to rid her Angora this be true, must our central directories cat of fleas. This seemed an unusual rectory, must be a State registered to health and happiness, especially hapnurse. Sufficient time is given new piness. Central directories are for serv-

Many nurses when approached about t their reciprocity papers.

Most directories require that a nurse more than I can care for." Perhaps you be a member in good standing of her do not need a central directory to keep alumnae, which means, as you know, you busy, but your profession needs it

We hear that commercialism is invad- they not sent out by a recognized direcing our ranks, and so it would seem tory? Thus far, it has seemed best for when nurses take that attitude. But central directories to keep in touch with will a nurse profit by it? You are held them. Those of you who were fortunate in esteem and worth only so high as enough to hear Miss Parsons address your profession is held. Years ago the yesterday, will remember that she said barber did all the surgery that was for our comfort that "God still puts it done. Today surgery is one of the into the hearts of young women to want greatest and most respected of profes- to be nurses." Is it not our duty to do sions. Why? Attend a few county, all in our power to place our profession State and national medical meetings, on the highest plane attainable, that The medical profession stands where it such young women may not be disilludoes today only because doctors of the sioned when they reach their hearts deworld realize the importance of stand- sire? ing together.

How many doctors do you know, who do not attend medical meetings, and not take one or more good who do medical or surgical journals?

If you know one, how much respect have you for his ability?

A doctor has the same right to question your ability, when he finds you are doing little or nothing for the advancement of your profession.

Why should a busy doctor be expected to remember your telephone number, or a superintendent of nurses'; or why should her assistants, who are employed to conduct a training school, be expected to conduct a registry for nurses? They have all and more than they can do.

Your name, it is true, may be listed in the classified list in the telephone directory, so also are the names of women who have never been farther in a training school for nurses than the kitchen.

Many central directories keep a list of attendants for the convenience of the public, but never under any circumstances, is an attendant sent out as a trained nurse. I hope the time is not far off when these women will no longer be connected with our central directories, not that we do not need good attendants, but they should not be confused with the nurse. The attendant has her place, but she is not a trained professional woman, and just so long as the central directory continues to send attendants into the homes to care for the sick, just so long will the public have a confused idea of a nurse.

take up nursing as a profession, come Gaskey. in contact with these attendants, who are not always of the best type of womanhood, and their estimation of the pro- ladies who took the examinations and fession of nursing is based upon that the schools in which they secured their observation of these women, for are education.

This is what the central directories are striving after as well as being a place where private duty nurses may register and receive calls.

At the convention of the American Nurses' Association, held in Atlanta, Ga., this year, it was advised that, "so far as possible, district associations establish registries, and that co-operation of hospitals, lay people and doctors be sought in order to bring about satisfactory conditions in each locality."

The Private Duty Section presented this resolution: "That all nurses should affiliate themselves with the authentic nursing bodies of their localities, especially the nurses' central directories. and that they should meet often and discuss their various problems and the solutions of the same, and in all things seek co-operation, for in union there is strength.

At the meeting of the Board of Trained Nurses of North Carolina, held in Raleigh recently certificates of registration were issued through reciprocity or recognition to 19 nurses registered in other States, and to Miss Olga Elna Johnson, a professional nurse from Langgade, Copenhagen, Den. In addition to these 74 certificates were granted to nurses who passed the examination given by the board.

The highest average on examination was made by Bessie White Stanford, of St. Peters hospital, Charlotte. Her average was 94.66. Following her closely were Marguerite Salters, with 94.33; Annette Alpirn, 93.14;; Kathleen Parker, Annie E. Spruce, Alda Grayson, Anne Ludlow McGehee, Dorothy Young women who might otherwise Sloane, Nell Hamlin and Bedia

Those Given Certificates.

Below are the names of the young

Baptist Hospital, Columbia, S. C .-Lolia C. Porter.

Central Carolina Hospital, Sanford-A. Lovce Cheek.

Charlotte Sanatorium-Nola Currie, Lila Mae Williams.

Marguerite Salters.

Salem-Ruth Johnson, Mary Lyons, Roberts, Mrs. Ethel L. Shugart. Viola G. Smith, Dovie Shore. Cumberland General, Fayetteville—

Sarah G. Currie, Annie Pate.

Gaston County Sanatorium, Gastonia –Lonnie Jackson.

George Washington Hospital, Washington, D. C.-Nell Hamlin.

Mary R. Bain.

nette Alpirn. High Point Hospital-Lillie Pearl phine Parker.

Wood, Carrie Faye Cunningham.

McKinnon, Lorena Parrish, Mamie

Nellie T. Stanton.

James Walker Memorial, Wilmington -Vera Jane Branch, Margaret C. Gallaway, Janie E. Walton.

Long's Sanatorium, Statesville-An-SURRY COUNTY nie Belle Hoyle, Mary Reid Sharpe.

Mary Elizabeth Hospital, Raleigh-Susan Vernia Irwin, Mary Anna Meyers.

Mercy Hospital, Charlotte—Sr. Mary Alphonsus, Annie A. Blackwelder, Ruth A. Boyette, Elsie M. Peeler, Mary E. ing feast. Walley.

Meriwether Hospital, Asheville-Dorothy Sloane.

Mission phine Burgin, Elva Hartness.

Moore-Herring, Wilson-Alta Smith.

Park View Hospital, Rocky Mount-Jesephine S. Reeks, Mary Louise Swank.

Parrott Memorial Hospital, Kinston -Bedie Ann McCaskey, Kathleen Parker.

Phoenix Hospital, Phoenixville, Pa.-Helen E. Young.

Presbyterian Hospital, Charlotte— Hallie E. Moore.

Pryor Hospital, Chester, S. C.—Irene Anderson.

Rex Cabe, Rebekah F. Redford, Myrner B. Straughn, Nora A. Watkins.

Rutherford Hospital, Rutherfordton —Alda Grayson, Vina E. Rayburn.

State Hospital, Morganton-Minnie Louise Sharpe.

St. Agnes, Raleigh, (Colored)—Jessie B. Alford, Theresa E. Barringer,

St. Leo's, Greensboro—Sammie City Memorial Hospital, Winston-Burke, Lucile Pegram, Jessie

St. Luke's, New Bern—Daisy Falls, Flora McDonald, Julia Mae Shope, Lillian M. Tilley.

St. Peters, Charlotte—Goldie Howell,

Bessie White Stanford.

Hospital, Durham-Annie Watts Ludlow McGehee, Nannie Lou Norwood, Gordon Kelly Memorial, Tampa, Fla. Lucille Osborne, Annie E. Spruce.

Wesley Long Hospital, Greensboro-Highland Hospital, Asheville—An- Bessie May Cline, Monnie Currie.

Wilson Sanatorium, Wilson-Jose-

Benedict College Hospital, Columbia, Highsmith Hospital, Fayetteville- S. C.-Anna E. Saunders (Colored).

News Items

The Surry County Medical Society met in Mt. Airy in the parlor of the Blue Ridge Inn Hotel, December

The meeting was in luncheon form and fifteen members enjoyed the tempt-

The following officers were elected for the coming year: Dr. M. A. Royall, Martha K. Brooks, Mabel Kincaid, President; Dr. E. M. Hollingsworth, Constance Reeves, Ila May Reeves, Vice-President; Dr. Moir S. Martin, Secretary and Treasurer; Dr. H. B. Hospital, Asheville—Jose- Rowe, delegate to the State Society; Dr. J. W. Ring, alternate.

The Society meets four times yearly, Dobson, Elkin, Pilot Mountain and Mt. Airy.

Whereas one of our number, Dr. A. F. Jones, was accidentally killed at Cameron, N. C., by a train striking his automobile, we, the Surry County Medical Society, offer the following resolutions:

Whereas: The Surry County Medical Society has lost one of its most capable and faithful members, be it

Resolved, That we extend to the bereaved family our sympathy in Hospital, Raleigh—Murhl E. their great loss, and be it further

Resolved, That a copy of these resolutions be sent to his bereaved family, a copy to Surry County papers, and a copy spread on our records.

MARTIN COUNTY.

Medical Society for the annual election medical corps with the A. E. F. in of officers was held in the offices of France for two years.

Drs. Warren, Rhodes and Harrell in the

fices for the coming year:

President—Dr. Harrel. V. Pres.—Dr. Godwin. Secy. and Treas.—Dr. Wm. E. Warren.

FORSYTH COUNTY.

At the December meeting of Forsyth County Medical Society, ensuing year.

President-Dr. V. M. Long.

The Society was the guest of the re- country.

tiring President, Dr. S. D. Craig at a well appointed dinner at the Zinzendorf Hotel.

brought forth a lively discussion.

V. M. LONG. Secretary, Retiring.

VANCE COUNTY.

ber 18. The following officers were printing trade. elected: President, Dr. F. R. Harris; Vice-President, Dr. E. F. Fenner; Secretary-Treasurer, Dr. J. H. Wheeler.

in Pediatrics."

JAMES H. WHEELER, Sec-Treas. Vance Co. Med. Society.

medicine in Charlotte, N. C.

Dr. Gage is a medical graduate of the phans for the American Red Cross. University of Virginia and served as adjunct professor in medicine there for tion.

Dr. Gage volunteered when the world The meeting of the Martin County war came on and was a member of the

Section for Anesthetists in the A. M. Peoples' Bank Building in Williamston, N. C. After the scientific program the A. in Sight.—It is expected that formal society adjourned to the Atlantic Hotel action will be taken at the next meeting to a banquet which was most sumptuous of the A. M. A. towards recognition of and complete. After this the society anesthetists by granting them a secvisited the offices of Dr. Hugh B. York tion in the Association. This recogniwho gave a series of X-ray demonstra- tion has been sought for several years and no better news can come to the The following men were elected to of- first line workers in this specialty than the announcement above, as it will do much to establish the specialty in a professional way.

New Admiral of the Navy-Rear Admiral Stitt, at present Director of the U. S. Naval Medical School, has been apthe pointed Surgeon General of the Navy to the succeed Rear Admiral Braisted who is following officers were elected for the retiring at his own urgent request. Admiral Stitt has for thirty-one years given service in the Navy and his ap-Vice President—Dr. Joseph F. Belton, pointment will have the full support of Secy and Treas.—Dr. s. W. Hurdle, the medical profession throughout the

Increase in Annual Dues of the American Medical Association. — The House Dr. J. B. Whittington read a very in- of Delegates of the American Medical teresting paper on bone surgery which Association acted on a proposition submitted by the Board of Trustees to increase the annual Fellowship dues, modifying the by-laws so that an increase from \$5.00 to \$6.00 was made, effective for 1921. This increase has been deem-The Vance County Medical Society ed necessary owing to the great advance held a regular monthly meeting Decem- in the cost of material and labor in the

Honors for American Women.

Miss Mabel T. Boardman, Secretary Dr. Albert Smedes Root of Raleigh of the American Red Cross, and a memread a very interesting paper entitled, ber of the Board of Commissioners of "Some Modern Methods of Treatment the District of Columbia, has been awarded the French Reconnaissance Gold Medal, in recognition of her work for France during the war. The French Reconnaissance Bronze Medal has been Dr. Lucius Gage, whose home is in awarded to Mrs. Elizabeth Boncroft, of Chester, S. C., has become associated Delaware, who aided refugees in the with Dr. B. C. Nalle in the practice of French devastated regions, and who organized relief for the French war or-

The next meeting of the Tri-State two years before leaving the institu- Society will be held in Spartanburg, S. C., Feb. 16-17.

Investigates European Immigration.

Washington-Surgeon J. W. Kerr, of the U.S. Public Health Service, sailed for Europe on November 20th with Commissioner General of Immigration Camineta to assist in the investigation of emigrant conditions in Europe. The hope is to devise additional measures whereby the immigration laws may be given greater force and may yet work less hardship on prospective emigrants.

More Coffee Drunk Since Prohibition. -The Secretary of the National Coffee Roasters' Association is authority for the statement that sixteen billions more cups of coffee have been consumed in 1920 than during the entire year of 1919. The increased consumption is attributed to prohibition.

Government Notes.—During the past year the Medical Department of the Army abandoned 21 of its 30 general hospitals, seven of which were turned over to the U. S. Public Health Service and the others closed.

The Surgeon General's Office from compiled statistics on the cost of venereal diseases in the army shows that during 1919 venereal diseases caused a loss of 1,923,420 days of duty among the troops. Since the estimated cost of such absences is at the rate of \$7 a day, the direct loss to the army from these diseases was \$13,463,940.

Surgeon General Cumming has announced the completion of plans for the treatment of 15,000 tuberculosis patients in the Public Health Service hospitals. A committee of tuberculosis specialists and members of the Public Health Service will visit the special hospitals to study the prevailing conditions abled him to give a clear interpretation with a view to the standardization of the of the "pathology of the living." methods of treatment, Surgeon General Ireland has issued orders that the complement fixation test be uniformly employed in the military service for the ach." diagnosis of tubecrulosis.

ANESTHETIC CHART.

The National Anesthesia Research terations of Motility.' Society has adopted a uniform chart for use in all hospitals. After studying and comparing charts from all leading hospitals and clinics of the United States a committee devised the chart which is eases."

considered to embrace all essential points in the administration of an anesthetic and leaves such a record as will speedily show the surgeon, anesthetist and nurse the history of their case.

This chart has been designed to show what happens to the patient and how he reacts to the various factors that bear upon his case. Detailed records of this nature have been all too few. Blood pressure, respiration, the color of the skin and the reaction of the pupil are of prime importance and the requirement of such records will stimulate better work on the part of all. Such records, systematically kept, will yield information never before available to the medical and surgical world. In the interest of such information, the N. A. R. S. will print and distribute at cost this uniform chart to all hospitals using it.— Bulletin National Anesthesia Research Society.

Publications Received

"ENFERMEDADES DEL ESTOMAGO" (Diseases of the Stomach). By Luis Urrutia, San Sebastian, Spain.

The author in his own work has for a number of years also been doing stomach surgery and in this way has been enabled to get a much clearer insight into actual conditions of gastro-intestinal pathology. His book is most comprehensive and gives in detail those methods of diagnosis and treatment which have proven of practical value in his own experience. Combining as he has Gastric Surgery in his work has en-

Among the subjects discussed are:

"Examination of the Patient."
"Gastroptosis" Gastro-Coloptosis.

"Diaphragmatic Hernia of the Stom-

"Nervous Affections of the Stomach."

"Acute and Chronic Gastritis."

"Alterations of Secretion" and "Al-

"Piloric Stenosis,"

"Gastric Ulcer, Duodenal Ulcer."

"Tumors, Benign and Malignant."

"Gastric Manifestations in Other Dis-

"HEART AFFECTIONS, THEIR REC-OGNITION AND TREATMENT." By S. Calvin Smith, M.S., M.D., Instructor in Medicine, U. of P., Etc. 440 pages; illustrated; F. A. Davis Co., Philadelphia; \$5.50 net.

"THE ENDOCRINES" By Samuel Wyllis Bandler, M.D., F.A.S.C., Professor of Gynecology in the New York Post-Graduate School and Hospital. Octavo of 486 pages. Philadelphia and London: W. B. Caunders Company, 1920; cloth; \$7.00 net.

In view of the great interest taken by physicians at the present time in Endocrinology this work is most opportune. It is ably written and comprehensive in scope, giving the student a clearer insight into this pertinent and vital subject. Obviously every person who claims to treat "sick" people should be familiar with the subject of which this work so ably treats.

"NITROUS OXIDE-OXYGEN ANAL-GESIA AND ANAESTHESIA IN NORMAL LABOR AND OPERATIVE OBSTETRICS." By National Anaesthesia Research Society, T. T. Frankenberg, Executive Secretary, 16 Broad St., Columbus, Ohio.

The society is justified in its belief that it has given in this book the very last word in the scientific literature of the subject covered.

"HOOKWORM AND MALARIA RE-SEARCH IN MALAYA, JAVA AND THE FIJI ISLANDS." Report of the Uncinarias Commission to the Orient. The Rockefeller Foundation, New York City.

This report is in most readable form and the findings of the commission are of vital interest to the profession in the subtropics of the South Atlantic Coast States.

"THE SPELL OF THE HEART OF FRANCE." By Andre Halleys, author of "The Spell of Alsace." Published by the Page Company, 53 Beacon St., Boston, Mass.

known.

"A WONDERLAND OF THE EAST." "See America First" Series. A beautifully bound gift book of 335 pages by William Copeman Kitchen, Ph.D., portraying the natural beauties of the Mountain and Lake Region of New England and Eastern New York. Published by the Page Company, 53 Beacon St., Boston, Mass.

"Practical Medicine Series, for 1920,"

Vol. II—"General Surgery," by Ochs-

Vol. III—"Eye, Ear, Nose and Throat," by Wood, Andrews and Shambaugh.

Vol. IV-"Pediatrics-Orthopedic Surgery," by Abt and Ryerson.

The 1920 series comes up to the formerly high setablished standards of this series.

"TRANSACTIONS OF THE TWENTY-SIXTH ANNUAL MEETING OF THE AMERICAN LARYNGOLOGI-CAL, RHINOLOGICAL AND OTO-LOGICAL SOCIETY," Boston, Mass., June 2-4, 1920.

Miscellaneous

"Epilepsy a Symptom of Splanchnoptosis"—The fact that what is usually called epilepsy is constantly associated with displacements of the abdominal organs has now been demonstrated in 810 consecutive cases of the writer. This demonstration has consisted of, first, the clinical history and, second, the physical examination of the patient; third, the serial X-ray study, and, finally, in the majority, the surgical exploration of the abdominal cavity. This record, with the additional significant fact that the visceral condition is always antecendents to the convulsion phenomena, as shown by the earlier development of constipation, and the absence of both hereditary factors and extraabdominal lesions, forces the conclusion that so called epilepsy occurs only as a symptom of splanchnoptosis. This con-Not a "travel book" in the generally clusion is further confirmed by these accepted sense, but a fascinating story observations and the daily observation specializing in the obscure and little of general practitioners to the effect that epilepsy is always associated with

constipation; that the epilepsy is worse the lower zone of the abdomen. The when the constipation is worse; and only note that does not thus migrate that the most effective, ready-at-hand downward is that of the cardia which, relief from seizures is by laxatives. It however, is generally farther around to was this fact, confirmed by surgical extended to the left and toward the back. In other perience, that prompted writing his first words, the viscera will have dropped article under the title of "Constipation This examination is all very easy, very and Epilepsy" and upon which he based important. a second article entitled "The Probable chnoptosis.

tioner who sees these cases and espe- the indications of the individual case. cases will always be found low in the cal restitution of the parts. right lower quadrant, sometimes as low more or less blended, by gravitation into Medical Association, 1920.

Then all cases should be given an Cause and Logical Treatment of Epi- X-ray study. When done right it is lepsy." Later experience has shown very clarifying; when done wrong it is that constipation while antecendent to very misleading. It is done approxiand associated with the seizures in these mately right when the following rules cases is, like the seizures themselves, a are observed: (1) The patient should be symptom of splanchnoptosis. The mere free from all laxatives or enemas for at fact that many people who have splanch- least twenty-four hours before taking noptosis do not have so-called epilepsy the barium meal; (2) the barium meal does not invalidate the observed and here recorded fact that eight hundred ing; (3) the first picture, to show the and ten people who did have epilepsy stomach and beginning duodenal trans-likewise had splanchnoptosis and that it, should be taken ten minutes later the development of the splanchnoptosis with the patient upright; (4) the secwas antecedent to the epilepsy. The ex- ond picture, to show conditions at the was affected to the epicps. The basic fact is, tient prone; (5) the third picture, to that epilepsy is always associated with show the condition and position of the and is therefore a symptom of splan-colon, should be taken at 9 o'clock the next morning-with the patient up-This basic fact is susceptible of veri-right. These pictures are essential; fication at the hands of every practi- others may be taken or not according to

cially by every institution now acting in The case with which all of this can be a custodial capacity to large groups of done, and the importance of the facts these unfortunates. To begin with, the thus elicted, make such examination of cases must be really examined. This these cases an imperative duty not only means that a thorough history must be for individual practitioners but for intaken. Then the patient must be strip- stitutions, hence, (1) All institutions for ped. The physical inventory should be epileptics should be provided with a carefully made, front and back, from well-equipped, competent and liberally head to foot. Special search should be supported roentgenologic service. (2) made for possible foci of infection as There should be a roentgenologic survey auxillary factors in the case. The abdo- of the entire epileptic population of all men should be gone over, first, with the public institutions for the purpose of depatient on his back; next, with him termining the condition of the abdomierect. A very little practice with ab- nal viscera. (3) The diagnosis should dominal percussion will enable the phy- be individualized in each case with refsician to detect the gastric note, the erence, first, to visceral causative faccecal note, the transverse-colonic note, tors; and, second, to available treatsometimes the sigmoidal note. With the ment with the object and understanding patient on his back, these notes will gen- that the treatment in all cases should be erally be found approximately in their directed to overcoming such visceral connormal positions, with the possible ex- ditions either by medical and hygienic ception of the cecal note which in these treatment or, when necessary, by surgi-

The same rules apply, with possibly as Poupart's ligament. Now stand the patients up and it will be found that all greater force, to all hospitals for the of these notes, these separate areas of insane,—but that is another story. resonance, will have become obscured, Chas. A. L. Reed, paper before Southern

WHAT DID YOU MAKE IN 1920?

Revenue, is addressing to every person in the United States the question, "What Form 1040.

was your net income for 1920?" The Revenue officers will visit every single persons whose net income for 1920 was \$1,000 or more and every \$2,000 or more is required to file a return under oath with the collector of inhe lives on or before March 15, 1921.

The penalty for failure is a fine of not more than \$1,000 and an additional Suspected Asynchronism of Respiratory assessment of 25 per cent of the amount of tax due. For wilful refusal to make a return the penalty is a fine of not A. M. A., Oct. 9, 1920), has seen three more than \$10,000 or not exceeding one cases of lobar pneumonia in which the amount of tax evaded.

Women Must Pay Tax.

The income tax applies to women as total equals or exceeds \$2,000 a return December 31, 1920. Divorcees, persons separated by mutual agreement, widows to \$1,000 exemption.

Tax Rates for 1920.

The normal tax rate for 1920 is the same as for 1919-4 per cent on the first \$4,000 of net income above the exemption and 8 per cent on the remaining net income. This applies to every citizen and resident of the United States. In addition to the normal tax a surtax imposed upon net income in excess of \$5,000.

Instructions on Form.

of which may be obtained from collec-Work has begun on the collection of tors of internal revenue. Persons whose the income tax for the year 1920. Uncle net income for 1920 was \$5,000 or less Sam, through the Bureau of Internal should use Form 1040A. those with in-

answer permits of no guesswork. Every county in the United States to assist taxpayers in making out their returns. The date of their arrival and the locamarried person whose net income was tion of their offices will be announced by the press or may be ascertained upon inquiry at the offices of collectors. This ternal revenue for the district in which advisory service is without cost to taxpayers.

Movement in Lobar Pneumonia.

year's imprisonment, or both together there appeared this type of respirawith the cost of prosecution. A similar tion. The impression conveyed is that penalty is provided for making a false of a "see-saw" between the abdomen or fraudulent return, together with an and Thorax; but Hoover says such a additional assessment of 50 per cent of statement cannot be accepted as proof of an asynchronism in activation between the intercostals and the diaphragm, but the vague term "see-saw" well as men. Husband and wife must does not identify the evidences of acticonsider the income of both plus that of vation and of excursion of the diaminor dependent children, and if the phragm as exhibited by movements in the hypochondria and in the costal must be filed. A minor who has a net margins. Hoover's patients with lobar income in his own right of \$1,000 or pneumonia who presented the phenommore must file a separate return. To be enon were two young women and one allowed the \$2,000 exemption a married man 40 years old. The two women preperson must be living with husband or sented the phenomnen in a striking way. wife on the last day of the taxable year. One had lobar pneumonia at the right case and one at the left, and they were both very ill. The respiratory phenomand widowers, unless they are the sole enon in the two were identical, and a support of others living in the same description of one of them will suffice household, in which case they are al- for both. When first seen on the fifth lowed the \$2,000 exemption granted day of the disease, the patient was the head of a family, are entitled only breathing as hard as she could and the air hunger was so intense that it was very difficult for her to talk. The entire lower right lobe was infiltrated, and the entire lower left lobe showed evidences of pulmonary edema. inspiration the abdomen was violently protruded and the outer portion of the costal margins and the hypochondria moved so violently in a lateral direction that they suggested the flapping of the wings of a barnyard fowl, but the movement of the median or inner halves of the costal margins was dispropor-Full instructions for making out re-tionately small compared with the moveturns are contained on the forms, copies ment in their outer portion. During in

Your Debilitated Patients

need especial attention during the next few months to fortify them against the prevalent diseases of Fall and Winter. The defensive forces of the body need to be reinforced, and to accomplish this, good hygiene, the best of food, and a dependable tonic are essential. To meet this last need.

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Probably no other remedy enjoys the confidence of more physicians than Gray's Glycerine Tonic. The reason is plain, for they know it will do what they expect it to—that they can count implicitly on its increasing functional activity throughout the body, improving the nutrition, and raising the vital resistance.

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tal stage.

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which

enth rib down, the ribs from the costal per cent, gave positive reactions. direction. Moreover, when the upper ribs were traced into the axiliary line, it was found that there they also moved in a normal direction; so that throughcome by some conflicting agent.

berculosis.

spiration the lower end of the sternum tients definitely proved to be tubercuwas violently drawn toward the verte- lous, 865, or 78 per cent, gave positive brae, and the sternum as far up as reactions. The 238 negative serums in Louis' angle shared in this movement, this group represent twenty-six moder-The manubrium itself was firmly an- ately active, seventy-three arrested, and chored, but the entire sternum from eighty acute or general tuberculosis. Louis' angle to the xiphoid cartilage with no detailed information regarding moved on account of a retracting fifty-nine serums. Of 521 serums from was applied at the patients with clinical tuberculosis not xibhoid process. During inspiration it confirmed by sputum or roentgen-ray was also observed that the ribs on both examination, 336, or 64.6 per cent, gave sides of the sternum, as far as the mid-positive reactions. Of 822 serums from clavicular line, were retracted during patients in whom tuberculosis was susriration. This retraction was plain-pected but not established, 303, or 37 by visible as far downward as the sixth per cent, gave positive reactions. Of rib. The seventh rib moved slowly in 554 serums from patients who were not a normal direction, and from the sev- examined for tuberculosis, 183, or 33 margin to the posterior axiliary line amination revealed no evidence of tucould be plainly seen to have an exag- berculosis, seven, or 4.2 per cent, gave geration of their excursion in a normal positive reactions.

INSECT POWDER.

When the elusive flea, the nocturnal out the entire length of the thorax there bedbug or the festive cockroach turns was on inspiration a distinct increase up his nose at insect powder instead of cf its transverse diameter in the mid-lying on his back and turning up his axillary plane. It was perfectly clear toes, there is a reason. The reason, acthat the ribs, from the second to the cording to a recent report from the sixth, inclusive, were retracted during Bureau of Chemistry of the Department inspiration as far laterally as the mid- of Agriculture, is adulteration and soclavicular line; but when the arches of phistication of the insect powder. Real these ribs were examined laterally from insect powder, composed of pyrethrum, this line, they were found to have a dis- representing the powdered flowers of tinctly normal bucket-handle movement, the chrysanthemum, will invariably It is not conceivable to Hoover that the cause the aforementioned species of inintercostal muscles were activated as sects to shuffle off this mortal coil. As far as to the miclavicular line and fail- far back as 1856, it was discovered that ed of activation in those parts which the powder of these flowers had the pelay to the median side of that line, culiar power to attract insects and then Therefore he believes that the inspira- numb or kill them. Although early of the upper ribs and sternum must larger animals, isolated case reports are have been due to the fact that in this available of harmful effects following region the normal results of the activat- the absorption of fairly large doses. ing force of the intercostals were over- Naturally, any substance with such potent properties early became the subject of exploitation and, unfortunately, Complement Fixation Reaction in Tu-insect powder appears to have been extensively adulterated since it first en-Of the 6,500 reactions studied by W. tered into commerce. From the first Warner Watkins and Clarence N. Boynthis adulteration consisted of mixture ton, Phoenix, Ariz. (Journal A. M. A., with the powder of other flowers, and Oct. 2, 1920). 2,078 were clearly nega- with the grinding up of the stems and tive and 1,027 were inconclusive (over leaves as well as the potent portion of 50 per cent hemolysis). There were the plant. More recently, barium chro-1.344 moderately positive (from 25 to mate, lead chromate, yellow ochre and 50 per cent hemolysis) reactions, and similar substances have been used as 2,051 strongly positive (no hemolysis) adulterants. Because of the nature reactions. Of 1,103 serums from pa- of the substance the determination of the purity is a difficult mat-carelessness? One way to show your on the insects. If it does not affect one ting to renew your membership in the or more species within a fairly reason- American Red Cross during the Fourth able amount of time, it is heavily adul- Red Cross Roll Call, November 11-25. terated. If, on the other hand, in the words of Glover, when sprinkled over A Five or Six Year Course in Medicine. them or placed in a circle and they are made to pass over it, for a few steps they appear very lively, but soon stag- of college work for admission to medical they appear very fively, but soon stag-ger, and after a few struggles, fall over study, John A. Kolmer, Philadelphia and soon cease to live, then it is good in- (Journal A. M. A., Aug. 7, 1920), be-seet rougher. Microscopically certain lieves that medical education will be sect powder. Microscopically, certain determinations may be made by those well informed as to the cellular characteristics of the plants and, chemically, the ash of the powder may be examined these methods the Bureau of Chemistry has summarized in a recent pamphlet. Genuine insect powder kills insects.— Journal A. M. A., Sept. 25, 1920.

Forests in Russia Grown Like Crops.

of forests and trillions of board feet of Bachelor of Science or Bachelor of Medare grown like crops and every year ferred after the successful completion trees are planted to replace those cut of the entire course of five or six years. down. These tracts of forest land have The first four years of the five year curalways belonged to the state.

a fourth as much in their place.

States, according to Department of Ag- portunity for elective studies, will also riculture estimates, covered 822,000,000 enable the student to concentrate on . acres and contained 5,200,000,000,000 one or more clinical or laboratory board feet of timber. Over two-thirds branches and engage in original invesof this area has been culled, cut-over or tigations under certain conditions to burned, and three-fifths of the timber better advantage than at present, withoriginally in the United States gone, out sacrificing the principal aim of the Our timber wastage by preventable fires medical school to give a broad and comalone is \$28,000,000 a year.

awake to the needs of reforestation. And cialization. through certain appalling health statistics brought forth in the draft, the American Red Cross and other health agencies, the country is awakening to its health needs. Are you awake, or ship. are you one of those behind-the-times persons who cut down all their timber without replanting and break all the holds on as long as he can-and then laws of health through ignorance and doesn't give up.

The best test is to try it up-to-the-minuteness is by not forget-

Instead of demanding two extra years better served by keeping the entrance requirements at the present minimum and extending the course in medicine one year, or two years if the medical for foreign chemical substances. All of school can guarantee a hospital internship so that the degree in medicine is conferred after the successful completion of at least one year's residence in an approved hospital. By reason of the added facilities for teaching the medical sciences, Kolmer would give all students successfully finishing the first two Russia, with thousands of square miles years' course in medicine the degree timber, conserves her trees. Around ical Science (B. Med. Sc.); the degree Kieff, for instance, forests of red pine of Doctor of Medicine should be conriculum outlined by Kolmer provide for Contrast the above with a statement a liberal and comprehensive course in which recently appeared in an editorial medicine, including instruction in the in the Editor & Publisher, to the effect specialties. The added fifth year will that in America we are taking 26 000,- afford more time for developing dispen-000,000 cubic feet of material out of our sary teaching, including soiological forest every year and growing less than medicine and for more laboratory work in connection with the clinical branches. The original forests of the United The fifth year, by providing ample opprehensive course of instruction before America, long asleep, is beginning to the student is permitted to begin spe-

> For the young man embarking on the sea of life, a good training ship is hard-

> The man who wins is the man who

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Diabetes Mellitus and Myelogenous Leukemia.

To two cases already recorded in the literarture, Reginald Fitz, Boston (Journal A. M. A., Nov. 13, 1920), adds a third. In this case the diabetes was mild and responded to dietetic treatment in the usual fashion, and was not appreciably influenced by roentgen-ray exposure of the splenic region, which had a markedly beneficial effect on the leukemia. The glycosuria cleared up Brief. promptly, disappearing after nine days of a fixed low caloric diet, and was accompanied by a rapid fall in the glycemia. Acidosis did not develop. As was powers. characteristic of myelogenous leukemia, the basal metabolic rate was increased, while the white cell count was high and mal as booms. returned to normal as the white cell count diminished. The lowering cell count and basal metabolic rate were ac- ture is excuses.

Myelogenous companied by a diminution in the size of the spleen, although this organ was palpable at the time of the patient's discharge from the hospital.

Agalactia.—Ext. calabar bean, twenty grains to one ounce of lard or vaseline, applied to the breast, will restore the secretion of milk, when it has been suddenly or temporarily arrested. It must be carefully washed off before the child is given the breast.—Medical Briof

Play pays only when it adds to our powers.

Business depressions are just as nor-

The most profitless thing to manufacture is excuses.



