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THE SPRING SESSION embraces a period of twelve weeks，beginning in the first week of March and ending the last week of May．The daily Clinics，Recitations，and Special Practical Courses will be the same as in the Winter Session，and there will be Lectures on Special Subjects by the Members of the Post－ Graduate Faculty．

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## Selectioms: edtediciur.

## THE MUSC'ULAR ARTERIOLES : THEIR STRUCTURE AND FUNCTION IN HEALTH AND IN CERTAIN MORBID STATES.

by george johnson, m.d., f.r.s.

## LECTURE III.-Concluded.

Time would not permit, even if it were desirable, to enter into the details of treatment ; but I am anixous to direct attention to one or two points of practice. It is a well-known fact that the inbalation of chloroform or ether vapour invariably puts a stop to uremic convulsions, and often wards off an attack after premonitory symptoms, such as convulsive twitchings of certain muscles, have occuered. It has sometimes been supposed that the anæsthetic acts by relaxing the cerebral arteries ; but an observation of Kussmaul and Tenner points to a different explanation. These experimenters found that, if animals are ftherised, no convulsions occur when they are bled to death or when their intracranial circulation is arrested by ligatures. It appears, therefore, that the anesthetic vapours prevent or stop convulsions by lessening the reflex excitability of the nervous centre.

The undoubted influence of repeated full doses of bromide of potassium, in warding off uræmic convulsions, is also probably to be explained by its soothing sedative influence on the nervous centres. The bromide is a very useful remedy for the painful muscular cramps which are of common occurrence in the advanced stages of all forms of renal degenera-
tion. These cramps, which are especially frequent and severe in the lower extremities and during the night, are no doubt to be classed with the results of uræmic poisoning, and in not a few cases they are the precursors of more formidable nervous disorder. They may, in some cases, be entirely prevented by a draught containing twenty grains of bromide of potassium, with five grains of carbonate of ammonia, at bedtime.

No doubt, some of the many nervous disorders that result from uræmic poisoning are due to the noxious influence of the morbidly altered blood upon the nervous tissue, while others are more probably explained by sudden partial inter ruption of the blood-supply to certain parts of the nervous system. This statement may be illustrated by a reference to the two forms of impaired vision, which are very frequently associated with advanced renal degeneration. In one class of cases, dimness of sight comes on more or less gradually, affecting one or both eyes, and is permanent. This form of impaired vision is found to be asssociated with peculiar structural changes in the retina, results of the so-called albuminuric retinitis. In the other class of cases, the impairment of vision may be so sudden in its onset that, in a few minutes or even seconds, there is complete blindness, which usually passes away as suddenly as it came. These attacks of sudden and transient blindness may recur again and again. That they are closely allied to epileptiform attacks, is shown by the fact that they are sometimes immediately followed by general convulsions. The most probable explanation of this sudden transient form of amauros:s is that which attributes it to sudden anæmia of
the retina, or of the central origin of the optic nerves, the result of arterial contraction, excited by the morbid quality of the blood. It is, in fact, a form of circumscribed partial epilepsy, "epilepsy of the retina," as it is sometimes designated.

There are various furms of nervous disorder of uremic origin which probably admit of a similar explanation: sudden and transient impairment of motor power or irregular spasmodic movements limited to a particular set of muscles; various disordered sensations in limited porions of the skin; sudden perversions of taste, or smell, or sight, or hearing, sudden impairment of speech, vertigo, confusion of thought, temporary mental excitement and delirium. One or more of these symptoms may occur singly or variously associated in different cases, the onset and the departure being often equally sudden. In explanation of these phenomena, Dr. Hughlings Jackson has, with much ingenuity, suggested that they may result from a sudden temporary interruption of the blood-current through one or more branches of the cerebral atreries by spasm of their muscular wall ; so that the brain tissue within a circumscribed "arterial region," having its nutritive supply arrested or limited, would suffer a suspension or impairment of its proper functions. Our increasing experience of the various forms of nervous disorder which may resulr from so purely mechimical a cause as embolism of cerebral vessels lends support to this theory. An arrest of the circulation through a portion of the brain involves immediate suspension of function in that part, with perhaiss a disorderly action in subordinate or correlated parts. Thus, amongst other symptoms of nervous disorder, maniacal delirium, with mental illusions, and acute chorea have been found associated with, and probably have been directly caused by, wechanical plugging of minute cerebral vessels; the plugging being a result of embolic particles of fibrin detached from the so-called warty vegetations on a damaged cardiac valve. Tn like manner, sudden and complete blindness may result from embolism of the arteria centralis retinæ, partial and patchy blindness from embolism in one of its branches. The results of the mechanical plugging of vessels are thus seen to bear so strong a re-
semblance to those which are due to uramic poisoning as to afford much support to the theory of arterial contraction as the immediate cause of some at least of the characteristic symptoms.

There is another class of cases in which the theory of olstructed circulation being the result of arterial spasm receives confirmation from the fact that very similar phenomena result from a demonstrable mechanical block of the sume system of vessels. I refer now to the striking rescmblance benween the symptoms of cholera collapse and the results of embolisun or thrombosis in the pulmonary artery.

It will bo known to most of those whom I have the honour to address, that for a number of years I have maintained that the impeded circulation through the lungs, which obviously exists during the collajse stage of cholera, is explicable only on the hypothesis of abnormally energetic contraction of the puimonary arterioles. And I now desire to direct attention to the verystriking resemblance between the symptoms of choleraic collapse and those which have been observed in some cases of olstruction of the pulnonury artery by fibrinous clots.

I have reference to several cases of pulmonary embolism in which the symptoms bore it more or less striking resemblance to those of the collapse of cholera; but the most complete record of such a case is one which was published by Dr. Alfred Carpenter (Lancet, September 23rd, 1871). In that case, as Dr. Carpenter remarks, " the only symptoms wanting to make it apparently one of cholera were alvine discharges and cramp of the limbs." The symptoms actually noted, and which in the choleraic cases have very commonly been supposed to result from the delydration of the blood by the intes-: tinal discharges, were the following: blueness of the surface ; icy colduess of the uncovered parts of the body; cold clammy pe:spiration; coldness of the breath; sinking of the eyes; feebleness of the voice; a feeble thready pulse; with quick breathing, excessive thirst, ande almost complete suppression of urine, two ounces only of urine having been passed oue day, and on another day less than two ounces: After death, the right side of the heart was found fully distended with dark-coloured blood,
while the left side was empty. The pulmonary artery at its origin was partially obstructed by a clot of fibrinous matter, which sent branches into the ramifications of the artery for several inches; these did not block up the passages entirely, but floated like semi-cylinders in the current. It is obvious that, if the trunk of the artery and its main branches had been completely obstructed, death must have been as instantaneous as in the case of cardiac thrombosis which I mentioned in the early part of this lecture; and it can scarcely be denied that the symptoms which resulted from this partial obstruction of the arterial trunk bear a striking resemblance to those of choleraic collapse. Such a case, therefore, may fairly be cited as evidence in support of the theory of arterial contraction being the main cause of the impeded pulmonary circulation during the collapse stage of cholera.

Again, it is not without interest to remark upon the very striking resemblance between the symptoms of choleraic collapse and a severe fit of spasmodic asthma. For the purpose of illustrating this, I will take Dr. Hyde Salter's graphic description of the asthmatic paroxysm. He says: "If the bronchial spasm is protracted and intense, the beat of the body falls; the oxygenation of the blood is so inperfectly performed, from the sparing supply of air, that it is inadequate to the maintenance of the normal temperauture ; the extremities especially get cold and blue and shrink. Thave known the whole body deathly cold and resist all effects to warm it for several hours. But, while the temperature is thus depressed, the perspiration produced by the violent respiratory efforts may be profuse, so that the sufferer is at the same time cold and sweating. It is this union of coldness and sweat, combined with the duskiness and pallor of the skin, that gives to the asthmatic so much the appearance of a dying man. The pulse during severe asthma is always small, and small in proportion to the intensity of the dyspnœa; it is so feeble sometimes that it can hardly be felt." I scarcely need insist upon the many points of resemblance between these symptoms and those of cholera. What, then, is there in common between these two formis of collapse? Obviously not a drain of fluid from the blood,
which was at one time looked upon almost universally as the main cause of choleraic collapse ; not, I repeat, a drain of fluid from the blood, but a partial arrest of the pulmonary circulation. In both classes of cases, there is evidence of an impeded pulmonary circulation, the result of spasm of the muscular arterioles. In cholera, the arterial contraction is a primary result of the irritant action of the poisoned blood upon the vessels and the vasor-motor nerves; while in asthma the arterial spasm is a secondary result of a partial apncea occasioned by primary spasm of the bronchi. Using the words asphyxia and apnoa in their strictly literal sense to express the pulselessness and breathlessness, we may say that in cholera-coliapse there is a primary asphyxia, and a secondary apnca consequent on the blood-stasis in the arterioles before it can reach the capillaries to be aerated. On the other hand, in asthma there is a primary apnœa caused by bronchial spasm which cuts off the air from the pulmonary vesicles, and a secondary asphyxia the result of arterial contraction.

In conclusion, sir, I venture to express a hope that the brief survey we have taken of some of the pathoiogical phenomena with which the muscular arterioles and the vaso-motor nervous system are intimately and obviously concerned has not been without interest even for this learned audience, to whom I desire to offer my cordial thanks for the attentive hraring with which they have favoured me.-Brit. Med. Journal.

Ether and Ammonia Subcutaneously.M. Verneuil injects ether as a powerful stimulant. In a case on which an operation had caused much hæmorrhage, and when the next morning the temperature had fallen to $92 \cdot 3$ in spite of brandy and other stimulants, ten drops of sulphuric ether were injected and repeated in half an hour. From this time there was a rally. M. Verneuil thinks ether or ammonia subcutaneously far preferable to transfusion, which latter operation he regards as dangerous notwithstanding its recent voguc. He woild recommend this plan even in post-partum hæmorrhago.The Doctor.

## STARVATION IN THE TREATMENT OF ACUTE ARTICULAR REEUMATISM.

BY CASEY A. WOOD, C.M., M.D., ottawa.

Since the advent of those two most excellent remedies in the treatroent of rheumatism, salicylic acid and salicine, and the undoubtedly good results that hove followed their use, it is not it matter of sumprise that one should feel inclined to regard any new remedy as undeserving of notice and unworthy of a trial; but there are cases in which these medicines have not realized the expectations of the physician, and where he is obliged to seek some other plan of treatment.

We will suppose for instance that after the patient has faithfuliy taken the requisite number of grains of salicylic acid in the proper doses and at proper intervals, and the disease has not yielded to its influence as was confidently anticipated; that perhups the fever and acid perspiration are not sensibly diminished, and the aching joints are still as painful as ever ; or it may be that the irritable stomach refuses to retain the nauscating doses poured into it and romiting or diarrhoat is set up-the question must then arise in the physician's mind what is next to be done? Shall he go back to the old remedies and try alkalies, colchicum and opium, calomel and opinm, or, devoid of faith in everything but his cherished "willow," sh:lll he simply do nothing at all, and, following the treatment so very appropriately styled expectant, " wait for something to turn up."

It is for the benefit of such cases especially that this article has been prepared, and, while the flood of testimony in favour of the products of the willow allows me to claim for "starvation" only a place second to them in importance, yet it will be found in most cases of rheumatism to act quite as quickly and efficaciously as the former remedies. Without further preface I shall proceed to give a short history of a number of cases of acute articular rheumatism, in which total exemption from food of any kind formed the chief element in the treatment. These observations have extended over a number of years, and they are all selected for their typical nature, being the common form of acute rheumatism usually
observed in the otherwise healthy adult. Special attention is drawn to the almost instantaneous action of starvation in almost every instance.

Case No. 1.-A. S., a retired gentloman of English descent, zet. 28, of full. plethoric habit aad a bon vivant. Had a very severe attack of achte articnlar rheumatism. Treated by a physician with calomel and Dover's powder, and under this treatment became mpidly worse, the pain in his joints heing so excruciatiug that he cried out with pain when any one appoached too near him. On the fourth day changed both lis: doctor and the treatment. He was then ordered an antimonial emetic and to take ten drops of the following every three hours while the pain continued to be severe: Tinct. Opui f $j \mathrm{ij}$, Tr. Colchici $f{ }_{j} \mathrm{ss}$. Wits also given, every three hours, a teaspoonful of the fullowing mixture: $\mathrm{B}_{\mathrm{k}}$ Potasse Acet $\bar{j}$ ss Aque $\mathfrak{j}$ viii. Ordered to take no food whatever for seven days, after which he was allowed an oyster three times a day. On the eighth day he walked down stitirs without assistance and entiedy free from pain. The amount of food was now gradually incerased until it reached the usual quantity.

He recovered pertectly from this attark and had good houlth for three years afterwards.

Case No. 2.-Pat K., pedler, et. 3t, of spare habit and very active, being much exposed to the weather. Had two previons attacks, treatment each time having lasted for twelve weeks. Fully determined this time not to have a physician nor to take anything in the shape of medicine. Was persuaded to starve himself for a week, at the end of which he was agreeably surprised to find himself totally free from pain. Took one tablespoonful of milk three tifues a day to begin with, and gradually increased this and his supply of fond until a full meal was taken. It is known as a fact that he had no return of his trouble for at least three years after undergoing this treatment. Thisman (much to the disgust of the medical men in the neighbourhood) has cured several people in the country places where he plies his trade, by the same simple plan.

Case No. 3.-M. F., member of Parliament, a French gentleman, aged 58, short, stout, ajd
plethoric. Had a very foul tongue, high fever and sweais, and was perfectly helpless from the pain and swelling in his joints. An emetic being plainly indicated he was ordered to take one, but would not consent to do so as he said he was sure it would prostrate him too much, but had wo oljection to a cathartic. The diffculty was got over by administering three grains of tartar emetic in a black dranght. Violent emesis, of course, ensued, which was blamed on his irritable stomach. Although very much prostrated by this powerful doso he was much relioved, the fever being reduced and his prin lessened. He was then given the same mixture as No. 1, and was completely starved for three days. On the fourth day was allowed an oyster and a poached egg, and on the fifth day half a pint of milk during the day and three oysters three times a day. On the sixth lay he was almost well and allowed full diet. Has had no relapse.

Case No. 4.-E. R., tet. 50, tailor, thin and of nervons temperament. Two days lefore seeing him had got cold and wet whilst at work in a cellar. Gave a mild emetic, which relieved him.
It was found necessary to starve him for three days only. On the fourth day he was allowed two oysters and a little milk. Went to work on the sixth day and has had no relapse. His general health has improved since his recovery from the attack.

Case No. 5.-E. B., aged 60, a stout hat active Englishman. This was his first seizure, it being of a very violent and typical nature. Swelling and acute pain in his knees and ancles, with high fever, foul tongue and profuse acid sweats : Gave him an emetic, but purposely omitted the opium and colchicum and the potash mixture, partly for the purpose of trying starvation pure and simple and partly because his pain was so soon relieved by the emetic and abstinence from food. Fasted four days and on the sixth day went to work as usual. Has had no relapse, and his health has been very good since.

I have notes on twelve more such cases in which the history of the patient, the duration of the disease and the immediate effect of treatment are very similar to most of those related above, and, were it necessary, I could give at
least thirty more instances where this plan of treatment has proved equally successful, but for the purposes of this article I do not think it is required, as I merely wish to give an outline of the course usually adopted in ordinary cases of the acute form. I do not claim that in every instance this treatment will produce a certain cure, but so thoroughly am I convinced of its efficacy that 1 would not change it for the salicylic acid treatment, having had some experience of this drug, which I have tried in several cases, only to return to the old plan of starvation. I have seen its good effects in so many instances; in fact, relief has so invariably followed its use that I can almost positively promise a pationt who consults me that he will be well again without fail within a week or, at furthest, iwo weeks after ueginning treatment. I ask, can the supporters of any other treatment saly more than that?

It might be objected that, in several of the cases roported, colchicum and opium with an aikaline remedy (acetate of potash) were given, that the treatment is only an old one slightly modified, and that the results obtained are directly traceable to these latter remedies and not to "starvation" at all. To this the answer is easy. The opium and colchicum are given merely for the temporary relief of the pain in the joints, and they are discontinued as soon as they have accomplished their object. The potash undoubtenly facilitates the patient's recovery, but all three are given as adjuncts only, for in cases 2 and 5 no medicine was given at all, and yet both patients made a remarkably quick recovery. Again, how many cases of acute rheumatism, even under the most favourable circumstances, recover in from six to ten days when treated by alkalies or colchicnm and opium? It may also be objected that starvation can seldom be tried on the debilitated, the very young, or the very old. This objection is a valid one, but it fortunately happens that the disease is rarely seen in those under ten or over sixty. Total abstinence from food does not, as one might at first imagine, reduce patients suffering from rheunatism very much, nor do they, as a rule, object to it. I remember one case in particular where a female patient having been relieved in a very
few days by this plan, thought there could be no harm in having something substantial to cat, notwithstanding her physician's positive orders to the contrary. A good meal of beefsteak, vegetables, and ale was soon prepared, and as quickly disposed of ; but I shall never forget the expression of sincere repentance that passed over her pain-stricken countenance as she promised her doctor next day that she would not transgress again, and offered to do without food for an indefinite period, if necessary, rather than suffer such another exacerbation as her indiscretion had brought upon her.

Upon the modus operandi of starvation in this disease I have very little to offer. From the quick and almost invariably good results to be obtained by simple abstinence from food, I am inclined to the idea that rheumatism is, after all, only a phase of indigestion, and that by giving complete and continued rest to all the viscera that take any part in the process of digestion the disease is attacked in ipso radice.

In most of the cases that I have been able to investigate I have found considerable digestive irritation to exist before the attack set in. Given a number of persons exposel to wet or coid in any shape, some of them will escape altogether, some will have simple coryza, others bronchitis, or perhaps pneumonia, but the malady that concerns us most is almost certain to be reserved for the one who is suffering from indigestion; the congestion that the cold or damp las caused, in each instance seems to search out the individual's weak spot, and, in the case of those seized by rheumatism, my observation, and the good results which rest to the digestive organs gives in the disease, lead me to the same conclusion, viz., that the real trouble lies in the irritated or irritable viscera.

In addition to the essentials of the treatment which I have spoken of in the five cases given, there might be added that locally wrapping the oints in cotton wool, and spouging the whole body twice a day with lukewarm water, will be found very soothing to the patient and will help recovery.

An emetic should be administered in almost every case, but it should not be given indisriminately, and never when the patient cannot readily stand it. If given at all it should be
an active one and antimonial, which, though somewhat depressing, is without equal fur the relief that follows.

No food whatever should be taken after the emetic has operated for at least three days (longer if necessary), or until the pain in the joints has considerably subsided. Water or (if the patient prefer it) lemonade is allowed in small and repeated quantities, but starvation is to be regarded as a sine qua non. The return to the usual amount of food should be very gradual, and everything eaten during this time should be very digestible. Opiun and colchicum are given for the temporary relief of pain, and should be discontinued when the desired effect is* accomplished. The mixture of acetate of potash will be found useful, but it is not an essential part of the treatment. A pleasing feature of this method will be found in the rare occurrence of cardiac trouble. The treatment by starvation, if followed according to the rules laid duwn, will be found to realizo all that has been claimed for it-a simple reliable remedy for a disease that has long baffed the physician's skill, and the frequency with which rheumatism occurs will give everyone a chance of trying its efficauy.

In making these statements it must not be forgotten that they apply to the acute form only, experience having proved that, when used in the chronic form of the disease, it exercises no marked remedial puwers, and has no advantage over the remedies usually employed in such cases.-Canala Medical Record.

## BELILADONNA AGAINST SCARLET FEVEIR.

Dr. J. C. Peters reported to the New York Academy of Medicine "three cases of scarlet fever occurring in one family, recovery taking place in each." To the fourth child in the same family kelladonna was administered for the purpose of protecting him from the disease, but it was contracted notwithstanding, and was the only case in the family in which it proved fatal.

Dr. Peters remarked, that his experience in the use of belladonoa as a preservation against: scarlet fever had been large and unfavourable

In looking up the literature of the sulject he had found that Hahnemann recommended
 glass of beer or milk, as a preservative against the scarlet fever of Sydenham, which Sydenbans himstlf declired would get well of itself, if not disturbed by the officiousness of meddling doctors. Against the scarlatina maligna, however, Hahnemam did not claim it to be preservative, but on the contrary regarded him as foolish who should so regard it.
[In one serious cpidemic of scarlet fever, I employed bellidomua viry systematically as a prevalion of anticipated attacks of the disease. I pushed the administration, in these cases, until I established the constitutional effectsdry fauces, dilitation of the pupil, and rash ; the children thus trated, without exception, were my most marked and fatal cases. -E. B. S.] -N. Y. Med. Record.

## A CASE IN PROOF OF THE NON-IDENtity of variola and varicella.

BY SEYMOUR J. SHARKEY,
Resident Assistant Physician, St. Thonas's Mospital.
Thomas $B-$, aged five $y$ ears, left the scarlet fever ward of St. Thomas's Hospital on Nov. 22nd, 1876, where he had beeu mader the care of Dr. Bristowe. In the same block, and on the floor above, there were, during the child's stay in the hispital, several cases of small-pux. Since his discharge from the hos. pital he liad never felt quite well, but had suffered from headache, slight pain in the back, and anorexia. His friends brought him back on Nov. 28th, with a vesieular eruption upon him, which was said to have appeared first on the legs, though it was then most profuse on the abdomen and back. The child was stated never to have had chicken-pox, and never to have been raccinated, and there were no marks of vaccination upon him.

On admission, the eruption was not well enough developed to make a certain diagnosis betwern varicella and varinla, and he was therefore isolated in a small ward on the same floor as the small-pox wards. Soon, however, the disease showed all the chatacters of varicella, and was pronounced to be so by Dr. Risdon

Bennett and by Dr. Bristowe. The patient was then removed to the floor below, and during the next few days fresh crops of vesicles appeared, which were vesicular from the first, had no induration around them, and dried up rapidly.

As small-pox was rife in London, and there were cases of the disease in the block, it was thonght advisable to vaccinate the child at once. This was done in four places on November 30th. Four very fine vesicles resulted, which ran their normal course at first, but the areola was never properly developed round them. On December 7 th -that is, on the eighth day from vaccination-the child became very restless, his sleep was much disturbed by dreams and apparitions; he had pain in the back, vomited several times, and was feverish. The vomiting was frequent and violent on the following day, and on the 9 th of December a few papules appeared on the face, then on the arms; and on the 11th the face, arms, legs, back, and abdomen showed a profuse crop of papules which were clearly the early eruption of small-pox, the scabs of varicella being still present. The primary fever was very considerable, the temperature reaching $105^{\circ} \mathrm{F}$., but as soon as the eruption appeared it dropped to $99^{\circ}$. The eruption developed in the ordinary way, and secondary fever of moderate intensity set in early, as shown in the temperature chart. The eruption was profuse, but not confluent. Convalescence was very tedious, and was interrupted by an enormous hard swelling on the left side of the neck beneath the lower jaw, which appeared to commence in the lymphatic glauds, and subsequently snppurated. The child recovered, bowever, and was discharged from the hospital on February 10th, 1877.

This is a case of considerable importance, and one that should be put on record, and the paper recently read by Dr. Farquharson before the Clinical Society has led Dr. Bristowe to give me permission to publish it at once. It places beyond doubt the non-identity of varicella and variola, and shows that vaccination does not prevent the incubating poison of small-pox from producing a well-developed attack of the diseases, alhough eight days have elapsed from the time of the operation. It also shows that
an individual may harbour at the same time the poisons of two infectious diseases，or at any rate the poisons of varicella and variola，each of which shall in due time produce a well－ marked attack of the disease in which it orig－ inated．For，if we take twelve days as the usual period of the incubation of suall－pox， and ten and sixteen days（Bristowe）as the extremes，the patient in question must have been infected by the poison of variola either when the eruption of varicella was out or during the time of incubation of that disease．－London Lancet．

## DIALYSED IRON．

A preparation of iron has been recently introduced．It consists of the peroxide of iron in the colloid form held in solution in a small body of water ：it is，in fact，a soluble hydrate of iron．It contains no trace of acid，the equi－ valent of acid being replaced by the equivalent of water by diffusion（dialysis）．This prepara－ tion is the nearest approach to the form of iron contained in the blood，and as it las no irritant properties it will doubtless prove to he the most valuable of all the forms in which iron can be administered．We have already given the pre－ paration an extensive trial．Although a strong solution，it has scarcely any taste and is taken readily by children．It does not constipate nor disturb the digestion，whilst at the same time it produces all the good effects we are accus－ tomed to recognize from iron in the other forms in which we have been accustomed to admin－ ister it．

The solution may be given in doses similar to the muriated tincture，that is，ten to fifteen drops，or for children，about five drops．It may be given before meals，as it does not irritate the stomach．

It cannot be mixed with ordinary hard water， which＂causes it to flake or gelatinize，but it may be taken in distilled water or dropped on a piece of sugar．Not the least advantage of the dialysed iron is that it can be brought into contact with the teeth with impunity，It may be given with equal effect in the form of a pill， each pill being equal to ten drops of the soln－ tion，or as a lozenge，equal to two drops of the solution．－Phil．Med．Times．

## Surnuy．

## TREATMENT OF RETENTION OF URINE．

BY JAMES L．LITTLEE，M．D．，

Professor of Surgery in the Eniversity of Vermont：Surgeon to St．Lutie＇s and St．Fincent＇s Ifospitals，N．I＇．＊
I have selected this subject because it is one that interests the practitioner of medicine as well as of surgery；hoth being often suddenly called upon to afford relief to a paticut suffering from the agonizing torments resulting from a dis－ tended bladdex．This，when successfully relieved， gives satisfaction both to the physician and to the patient，and is not equalled by anything which cones under our observation，except it be the mother who has just expelled hor first－born after a tedious labour，without the benefits of an anesthetic．

The treatment of retention depents，of course， to a great extent on the causo of the difficulty．

Retention cansed loy irritation of parts in the vicinity of the bladder，as，for example，an acute attack of，or following an operation for，hemor－ rhoids ；or retention due to overdistension of the organ from neglect to pass the urine；or from the absorption of cantharides，or when it occurs during typhoid fever，paralysis，and other diseascs，is easy of treatment．

The introduction of a silver or rubber cathe－ ter，of full size，is，generally accomplished with－ out difficulcy．These cases do not call for any special remarks，except mentioning the one rule to be always bone in mind，namely，to use ia full－sized instrument，say No 12，if it can be readily introduced into the external meatus，for large instruments always pass through the ure－ thra into the bladder with more ease than those of smaller size．But when the retention is caused by mechanical obstruction，such as stricture，or enlargement of the prostate gland，the treatment is one that taxes all the resources of the physi－ cian or surgeon．The patient must be relieved； his sufferings are unbearable；his urine must be drawn off ；no time must be lost，or serious，if not fatal，consequences will ensue．

It is well known that a patient who has a narrow strictare will go about for months and even years，passing his water in a small stream，

[^0]with considerable exertion, never emptying his bladder completely, and still not 'suffer from retention. But such pationts are liable after a " bout," or sometimes by simply taking cold, suddenly to find themselves unable to pass their water. Warm baths and hot fomentations may in some cases afford relief: but as a rule, when such patients call for their doctor, tho bladder is so distended and the suffering is so severe, that instrumental interference is necessary.

The age of the patient, and a few words of his previous history, will at once enable the physician to suspect the existence of stricture. The introduction of a full-sized silver or tlexible catheter, will enable him to determine positively the presence, as well as the locality, of the stricture.

If he fail to reach the bladder, it is a good plan to tell the patient to stand up and, making some pressure on the stricture, suddenly withdraw the instrument, telling the patient at the same time to make an effort to urinate. This little procedure, which was first recommended by Sir Benj. Brodie, I have seen succeed in many cases where I have been unable to introduce even the smallest instrument. If this fails, the next sized catheter should be tried, and then the next, until we reach the smallest size. Theso failing, recourse should be had to the small, conical bougie-French. And here let me say that, as a rule, the small French olive-pointed bougie is much more readily passed through a stricture than the sharp-pointed ones, which are so liable to catch in the lacunce or on the sides of the stricture. These sliould be carefully introduced, and if the stricture is passed, on removal of the instrument the urine will follow. The urine will often flow alongside of the instrument without withdrawing it, if the patient is instructed to strain.

If the stricture is small, and passed after great difficulty, it is always advisable to tiry and have the water pass in this way, and then to secure the bougie and let it remain in the urethra if possible for twenty-four hours, or even longer, if it produces no irritation. This is what Thompson calls continuous dilatation, and will often allow a bougie two or three sizes larger to pass in after withdrawal.

It might be well to state here, that it is
good practice to inject with a long-nozzled syringe, or through a gum catheter, as much sweet oil as the urethra will hold, before the introduction of the bougie.

In the majority of cases, the above treatment, if carefully pursued, will enable the surgeon or physician to reach the bladder, and tbus relieve the patient.

I might state that ou several occasions when unable to enter tho bladder, I have succeeded in causing the pationt to urinate by injecting a stream of warm water against the stricture through a gum-elastic catheter, with the extreme end cut off.

If we do not succeed in relieving the patient after a fair trial of the above means, we should at once resort to the aspirator. Here we have a sure and safe means for relieving the patient.

A small needle should be introduced a little above the pubes, after a small nick is made through the integuments, and by means of the aspirator the urine can be withdrawn.

In cases of stricture it will be seldom necessary to use this instrument more than once, a bougie readily passing through the stricture in a short time after the bladder bas been completely emptied.

I had a case in St. Luke's Hospital where it was found impossible to pass a bougie until the bladder was emptied by the aspirator, and then the instrument was passed without difficulty.

From these results, I infer that emptying the over-distended bladder by aspiration relieves the congestion of the mucous membrane covering the stricture, and in that way permits the introduction of the bougie.

I have made up my mind hereafter to resort to the aspirator early in all cases where I am unable to completely empty the bladder by the urethra, or where I bave difficulty in passing the stricture; using it, however, only when the bladder is full of urine.

Puncture of the bladder by trocar through the rectum, or above the pubes, should only be resorted to when it is impossible to obtain an aspirator; and in choosing between these operations, I should certainly prefer puncturing with a small-sized trocar and cunula above the
pubes. This has been done with safety, and if the instrument used be small, it seems to me no harm can result; and it is easier and more comfortable to the patient than puncture by the rectum.

A few words in regard to the use of medicinal means. Dinretics should be avoided as they only increase the difficulty. Large doses frequently repeated of the mur. tinc. of iron, say 25 drops every half hour, were frequently resorted to with good results, in the New York Hospital while I was Resident Surgeon. The warm bath, warm fomentations, etc., have a relaxing effect, and are often serviceable.

## RETENTION DUE TO ENIARGEMENT OF THE PROSTATE GLAND.

In about 12 per cent. of men living after the age of fifty, obstructive enlargement of the prostate gland takes place. In many cases this enlargement will go on without giving the patient much trouble, excepting that he passes his water much more frequently than he did at the age of thirty. Now, although he may pass his mine more frequently, it is well known that such patients rarely enpty their bladders completely, a certain amount of urine, called "residual urine," remaining in the bladder. A patient in this condition is iiable at any time to an attack of retention, and the surgeon or ohysician may be called in to afford relief. The age of the patient and a digital examination through the rectum enables nis to make our diagnosis.

In many of these cases the silver catheter with the usual curve will fail to enter the bladder, being arrested at the entrance by the enlargement of the prostate, and we are called upon to use an instrumert with a large curve. This should be used with great gentleness, especially when the point of the instrument is passing over the enlarged prostate. Force should never be used, for fear of injuring the prostate and giving rise to bæmorrhage into the bladder, or setting up an attack of cystitis; for as long as we can prevent inflammation of the bladder, our patient can be kept comfortable. When cystitis once begins in a patient with enlarged prostate, it rarely ever entirely disappears.

When retention takes place it generally lasts several days, and requires the frequent use of the catheter. At least thee times in the twenty-four hours the instrument should be introduced, and I know of no better way of overcoming an attack of retention in these cases than to teach the patient to introluce a soft rubber catheter, and direct him to empty his bladder, say every three or four hours, without making any effort to pass his urine in the natural way, and not waiting until he feels like passiug it. After following out this treatment for a day or two, he then may try to pass it without the instrument, and he will generally sncceed.

Where great difficulty is encountered at the entrance of the bladder with the silver instrument, Mercier's cahleter may be tried, but I have found no trouble so far in introducing the fiexible suft rubber instrument. Well oiled and gently introduced it passes along the urethra without producing much pain, and patients can roudily learn to use it without danger of injaring themselves.

I will at this point call attention to the paper of Dr. Vian Buren, of New York, on "Plea for the Treatment of the Consequences of Obstructive Ealargement of the Prostate by Early Use of the Catheter," published in the New York Medical Jourral for July, 1874. In this paper he advises that in order to prevent the serivus consequences which arise from obstructive enlargement of the prostate, the patient be tanght the use of the catheter, and then give up emptying his bladder in the natural way, relying entirely upon the catheter during the remainder of his life. In that way patients with this disease can go on (he siys) for years without trouble. One case he quotes of a man of seventy, hale and kearty, who had usel a catheter three times a day for thirteen years. Another case where it had been used twenty years.

Other instruments have been invented for entering the bladder easily in cases of this kind : Squire's vertebrated catheter, Mercier's silver and gum catheter combined, etc. In cases where it is impossible to get in an instrument, the aspirator may be resorted to.

The rough use of the catheter in these
cases of retention is frequently the cause of the cystitis which makes the remainder of the patient's life truly miserable, attacks of retention taking place more frequently, and the introdaction of any instrument, excepting the soft rubber catheter, frequently aggravating the difficulty. When cystitis has taken place, carefully washing out the bladder, so as to remove the decomposed wine mucus and pus, together with diuretics to dilute the wine and render it less irritating, are the chief indications for treatment. The old way of washing out the bladder throngh the double catheter, has been superseded by a much more convenient and less painfal plan.

For internal treatment $I$ have found the infusion of triticum repens, one ounce to the pint, with gaultheria leaves, to answer a good purpose. Balsam of copaiva in emulsion, 15 to 20 drops, will often act like magic in clearing up the urine, and the old prescription of henbane and liq. potassae is also worthy of trial. Fl. ext hydranyea, in half drachm doses three times a day, is also of great service.

Deachm doses of fil ext. ergot or hypodermic injection of ergotine have also been recently highly recommended.-I'he Ifospital Gazette.

## CLINICAL LECTURE ON SOME CASES OF DISEASED KNEE-JOINT.

BY S. MESSENGER BRADLEX, F.R.C.S.,
Surgeon to the Manchester Roval Infirmary; Lecturer on Practical Surgery at Owens College, iete.
The cases before you are examples of some of the most common, but important, diseases of the knee-joint, viz. : simple synovitis, suppuration within the joint, abscess in the immediate neighbourhood of the articulation, ulceration of cartilage, articular osteitis, and pulpy degeneration of the synovial membrane and adjacent structures. That is to say, we have instances of disease affecting each, and in some cases all, the structures which enter into the formation of the joint ; and, in forming an opinion upon any case of diseased knee, this question of site is a very important one. Indeed, situation and dirthesis are the two most important matters to be decided ; thus, e.g., in this case of simple synoritis, the situation of the disease, revealed
by the shape of the affected joint, at once establishes the fact that there is effusion into the joint; a little further examination shows that the bones, and cartilages, and ligaments are unaffected, and that the synovial membrane is the sole seat of disease. Then, regarding his general appearance of health, his strong even teeth, his healthy skin, we rapidly decide that here is a man free from any special diathesis; and, these two points decided, we at once conclude that this case of simple synovitis in a healthy subject will, with proper trcatment, shortly be cured, and the joint be perfectly restored to its stutus quo ante. How different would the prognosis be if the same disease, caused in the same way, occurred in this strumous lad. It is highly important, indeed, that you understand that all, or almost all, the diseases here illustrated may occur in an otherwise healthy subject; or, on the other hand, may be associaied with a rheumatic, gouty, syphilitic, or strumous habit-when it becomes a much more important matter to treat the general diathesis than the local manifestation thereof. In the rheumatic, or gouty, or syphilitic habit, after such general treatment, you may hopefully proceed to any operation upon the joint itself deemed necessary; but, in the strumons, you must proceed more cautiously, and in resard to one operation, I mean ex cision, you are, in my opinion, not justified in resorting to it at all.

Let us now examine these cases a little in detail.

This little humpbacked man is evidently of strumous habit, and has suffered at some time or other from caries of the dorsal spine. He was admitted into the infirmary with a large and painful right knee, the leg bent at right angles, but not ankylosed. There is manifest effusion into the joint, and some of the fluid removed with the aspirator we found to be purulent ; yet, although we have here suppuration into this great joint, and the man is of so unfortunate a habit, there is wonderfully little constitutional mischief ; the temperature is normal, the pulse is quiet, and the tongue is clean. What is to be done? Constitutional treatment, of course, " goes without saying"; but locally what must we do? I believe the
best treatment here is to make an incision four lines in length along the inner border of the patella, and then, by means of a Higginson's syringe, to distend the joint with a solution of carbolic acid in water ( 1 to 30 ), according to the plan suggested by Callender for the treatment of abscesses. Having done this, seal up the small wound with collodion (no drain-tube being inserted), and put the limb on a back splint. I have found this plan succeed in such cases, and it is certainly always well worti trying; for the alternative of freely laying open the joint, with the hope of securing ankylosis in the straight position, is not only a much more formidable procedure, but also not in whe least more likely to succeed than the simple method of distension. If either or both these plans fail, and fail they often do, then, in my opinion-reasons for which I will give you more fully by-and-bye-you have only one alternative, and that is amputation ; excision being an unjustitiable operation in such cases.

The next case to which I draw your attention is one of abscess in the cellular tissue about the joint, and was sent into hospital as one of disease of the joint itself; but that such is not the case, I will proceed to show you. First, you perceive there is no effusion within the joint, by the absence of the characteristic swelling beneath the subcrureus or by the sides of the patella; next, the movements of the joint being quite normal and painless, you infer that the ligaments are unaffected; the bones do not in any way differ from those of the opposite side, nor is there any pain on squeezing the femoral condyles or tibial tuberosities, or on forcing the patella backwards, nor does the patient suffer nocturnal exacerbations, whence we conclude that the articular ends of the bones are sound; on pressing the articular surfaces together, no grating sensation is produced, by. which we know the cartilages are intact. In a word, all the main joint-structures are healthy; and this fiuctuating swelling is external to the articulation. Being quite out of the way of important vessels or nerves, without more ado I open it with this bistoury, and, as you see, give exit to a quantity of pus. I now distend the sac in the usual way, introduce a small vulcanite drain-tube, which $I$
prefer to the ordinary India-rubber ones, because, unlike the latter, they do not collapse on pressure by the bandage; and now, I think, we shall be justified in predicting a rapid restoration to perfect health.

Here we have a typical example of ulceration of the encrusting cartilage. This man has no pain in his knee, no effusion into the joint; but, when you press the patella back and move it from side to side, you feel a distinct bony grating, owing to destruction of the layer of cartilage. Too much, I think, is made of diseased articular cartilage. Certainly, in regard to treatment, this is true. It may ossify, it may atrophy, it may disappear, and unless the contiguous bone become affected, very few, if any, symptoms appear, and very little damage is done. As matter of fact, however, this implication of the bones is the rule and not the exception ; such, e.g., was the case with Helen T., whose knee-joint I excised about eighteen months ago. For a long time, she had no symptoms beyond bony grating, then pain manifested itself, especially at night; and this proving quite intractable, in spite of active and long-continued treatment, the joint was resected, when we found much diseased bone beneath the eroded cartilage. I may for a moment dwell upon this case to say that, by some, it would be regarded as a successful example of excision of the knee, inasmuch as the bones united, the pains ceased, and the woman got about again ; but, to my mind, it is not satisfactory; the limb is shortened, she is soon tired, and, after walking a short distance, has pain; she would be better off with a good stump and a wooden leg.

This little boy and girl are illustrations of another very common disease of the knee; I refer to articular osteitis. You can see at a glance that there is no effusion into the joint, and may also note that in both the leg is flexed at a right angle with the femur, and that subluxation backwards of the tibia exists, caused by the continued pull of the hamstring muscles. No sinuses have yet formed, and the enlargoment of the bones, though manifest enough, is not extreme. Subjectively, we have pain on pressure and nocturnal exacerbation, with muscular spasm. Both little patients, too, have a
pained and wearied look, very sad to see in young children, and both are losing flesh. The osteitis, in such cases as these, is generally set up liy some unlucky blow or fall; and if this blow chnace to alight upon a strumous soil, the osteitis will probably proceed to general arthritis; yet, if we see cases like this at an early date, we may hope for a happy issue out of the trouble by long-continued rest. Gentleness and quict are, indeed, our most potent aids in treatment; and after a time, when all inflammatory action is at an end, we may en deavour to restore the limb to a straight line, and overcome the subluxation by very gradual extension. If, by long-continued flexion, the hamstring tendons hamper us in their contraction, there is no objection to dividing any such constricting band with a tenotome.

And now, gentlemen, in. the last place, I call your attention to this strumous lad, who has been in the infirmary for the last month with white swelling, tumor albus of the knee. He tells me that, before he felt pain, he noticed a difference in the shape of his two knees; on the affected side; the finrows on each side of the patella filled up, and soon after he began to feel pain at times and limped in his gait. Seeing this, his mother, wiser than most, brought him to the hospital, where he was at once admitted. The joint is generally enlarged, and, if we could look into it, we should find the cavity encroached upon as much as the tissues outside, owing to a villous thickening of the synovial membrane. Pressure gives little pain, and there is no increase of pain at night. Now, if this lad had been allowed to rum wild a little longer, he would have limped more and more as the joint became more and more painful. The leg would have become flexed, and by-and-bye abscesses would have formed and opened around the joint. These would, perhaps, dry up after a time, leaving sinuses, with a temporary improvement of the health; ther fresh abscesses would form, and the lad, enaciated and reduced by constant pain and discharge, would at length die, death being possibly preceded by an amyloid degeneration of the viscera, a condition not unfrequently superinduced by long-continued suppuration. By treatment, however, we may rationally hope
to avert so calamitous a termination. The limb is placed upon a splint, both ankle and knee being immobilised, and after all inflammatory symptoms are reduced by rest and icebags, counter-irritation will be employed under chluroform in the shape of the actual cautery. Under this treatment, the pain will probably disappear and the swelling subside; in the latter stages, pressure will be employed by strapping over Scott's dressing. In the meanwhile, we gire cod-liver oil and plenty of milk, two quarts daily, and, above all, exercise much patience; for these cases requirea long timo, a year: perhaps, to effect a perfect cure. It may be iudeed that, despite all our efforts, the destructive action progresses. Pyrexia announces the constitutional sympathy; the joint becomes larger, softer, and more tender ; abscesses repeatedly form ; and the joint becomes filled with pus and brokendown tissue. If such a fate await this poor boy, I shall open the joint ${ }^{\text {b }}$ on one side of the patella, and hyperdistend the synovial cavity with a one in thirty solution of carbolic acid. Should this plan fail to arrest the mischief, I should at once proceed to amputate the thigh, when, in all probability, you would find that, in a few weeks, the lad would be up and about in a vastly improved condition of general health.

I cannot but warn you against excision in such cases, although the operation is advocated bp some surgeons even in the young. I confess to a strong impression that excision of the knee is, under nearly all circumstances, a bad operation, and one which will sooner or later fall into a deserved desuetude; for, after all, what is the end and obiect of every operation? Surely this: to cure your patient with as little risk as possible, as soon as possible, and with the best results as to utility of parts as possible. Now, how does excision of the knee fulfil these requirements? It seems to fulfil none of them. It is a more risky operation than amputation; it is an infinitely more tedious operation than amputation in the after treatment; and as to results, however pleasant it may sound to save a leg, I would very confidently back the first casual dozen one-legged men against any picked twelve men with excised lknee-joints in a walking, or a jumping, or a climbing match. Look
at our recent experience of this operation-at least, take my own. Within the last eighteen months, I have excised the kuee-joint five times; in two cases, after a long and tedious effort at repair, I was compelled to amputate; the other three have still their legs on, but what are ihey worth? The best of them cannot go half a mile without pain and trouble; and the worst of them, this poor fellow before you, has been lying convalescing (!) here for the last six months, with the grand result of just being able to lift his leg in one piece off the bed. If things go as merrily as hitherto, he may hope in another six months to make the tour of the infirmary flags, when, if he have the good luck to fall down and break his stiff leg, I shall not hesitate to advise him to allow me to substitute a wooden-peg for his own very indifferent member. Whatever be the ultimate fate of this much bepraised operation of excision of the knee, depend upon it that, in cases of strumous arthritis, the game is at no time worth the candle.-British Medical Journal.

## PIECE OF NUTSHELL IN AIR PASSAGES OVER THIRTEEN YEARS.RECOVERY.

BY J. W. LUSE, M.D., CLYDE, OHIO.
Editors Ohio Medical Recorder :-Gentle-men:-I was called upon to treat a child, son of George and Phobe McFarlin, of Townsend township, Sandusky county, Ohio, in February, 1864. The boy was two years and two months old, and was suffering from an attack of bronchitis, with hard breathing and suffocation. The parents supposed the clild had inhaled a small piece of the shell of a hickory nut. The proper remedies to ally bronchial irritation were administered with but temporary effect. Other physicians were called from time to time with similar results. The child's life was finally despaired of, as it was supposed the left lobe of his langs was entirely destroyed. . But on Tuesday, June 5th, 1877, after a lapse of thirteen years, three months, and seventeen days, he coughed up the piece of nutshell, which measured almost seven-sixteenths of an inch in length, and five-sixteenths of an inch in width, from point to point, in the shape of a cross, rough on the extremities and curved lengthways.

SEMI-ANNUAL REPORT IN PRACTICAL DERMATOLOGY.
BY HENRY G. PIFFARD, M.D.
Local Treataent of Psoriasis -Mr. Cottle (Lancet, Sept. 30, 1876) recommends a solution of india-rubber, made by dissolving half an ounce of india-rubber in cleven and a-half ounces of chloroform. He has found it useful in chronic cases of psoriasis, where there is an excessive formation of dry scales, especially in the neighbourhood of the joints. The crusts and scales being removed, and the absence of grease insured by wiping the parts with ether, and the skin dried, the solution is applied with a brush, and the application renewed as often as is needful to maintain a continuous covering over the affected skin. He has met with more rapid recovery in these cases by this application than by the ordinary local moasures. He thinks the same treatment is applicable to some cases of chronic eczema.

Treatment of Erysipelas.-Dr. Charles Bell (Edin. Med. Jour., August, 1876) believes that the failure which many experience in the use of the muriated tincture of iron in erysipelas, is due to the fact that it is not usually employed in sufficient doses. He recommends that it shall be given in twenty drop doses, every two hours, day and night. When thus used, he says, that it is a certain aud unfailing remedy.

Treatment of Acne.-Chantry (Lyon Med., June, 1876) uses with benefit iodide of sulphar in the severer forms of rosaceal acne. He gives it in pills, each containing 0.03 (gr. ss.) iodide, and 0.12 (gr. ij.) extract dulcamarae. Locally he uses:

R
Gramimes.
Potasse sulphid.........
Tinct. benzoin .........aa. 4. (3i.)
Aquæ ..................... 100 (3iii ss.)
A dessert spoonful is added to a glass of warm water and applied twice a day. (We have seen decided benefit follow the internal use of iodide of sulphur on indurated aene, but have rarely been able to employ it in doses exceeding 0.003 to 0.001 (gr: 1-10-1-6) without producing gastric disturbance. Externally in the form of . ointment it has been used for many years.

Tattoong of Naevi.-Sherwell (Archives of Dermat., April, 1875) "takes a number of fine sewing needles, first sharpening and somewhat rnghening their cutting edges with a fiue flat file, at and for a short distance from their points, and then by means of heavy sewing machine silk, well waxed, wrapjed around tre upper two-thirds of each in turn, and all to. gethor, forms a fasces-like bundle, the points being somewhat less than an inch apart." When prepared, he takes a saturated or 50 per cent. solution of carbolic acid, or a 25 per centsolution of chromic in a shallow vessel, and clipping the points of the needles therein, makes a series of punctures into the skin of the affected region. After the usually slight bleeding ceases, he wipes off the part with a litile alcohol and quickly applies soveral layers of collodion. (The method here detailed is simpler than that of Squire, noticed in our last Report, and is probably as effective.-Archives of Clinical Surgery.

## THE AUTOMATIC NETHOD OF REDUCING LUXATIONS OF THE HIP.

In October last there was admitted to Dr. Crosby's wards in Bellevue Hospital a typical case of dorsal luxation (the toes resting on the opposite instep, there being very marked rigidity present, and abolaction being entirely impossible), but which had been diagnosed as one of fracture of the neck of the femur within the capsule, by a physician outside, and treated as such for about thirty hours previous to adinisoion. Under these circumstances, he resolved to at once adopt the following plan. The patient, having been placed on his back upon a blanket spread upon the floor, was thoroughly aursthetized, in order to obtain complete muscular relaxation, and the legs were flexed at a right angle upon the thighs, and the thighs similarly flexed upon the pelvis, for the purpose of reworing the strain from the ileofemoral or Y ligament. Dr. Crosby then placed his hands under the calves of the legs, quite near the knees, and, raising the pelvis a short distance from the floor, made very slight adduction of the affected limb,--when in about half a
minnte from the commencement of the manueurre he lat the satisfaction of feeling the fead of the bone slip into its normal porition. He explaned that in this procedure the parient was made to perform thie reluction himself, a sort of felo-lc-se, as he termerl it ; the weight of his body supplving the extension, while the e nuterextension was made ly the operator, who performed simply the office of a post, though an intelligent one, to be sure. The method was first described to him by a friend of his in Vermont, Dr. J. G. Allen, who had hit upon it accidentally about two years ago, while in the act of lifting a patient suffering from this dislocation, so as to get him into a suitable position for performing the usual manipulations attempted for the reduction of the deformity. Since then he has adopted the same course, with equal súcesss, in two other similar laxations; so that Dr. Crosby's makes the fourth case in which the procedure has lieen employed. So far as Dr. Crosby has been able to ascertain, these are the only cases in which it has ever been done. In Dr. Bigelow's admirable monograph on luxation of the hip (a copy of which, strauge to say, he fount it ditticult to lay his hands on in New York) he has found that the same position was used in a number of instances there recorded, but the method pursued was always different from that which he had ventured to call the automatic.-Phil. Med. Times.

Canadians Abroad.-In the list of the medical degrees conferred at the University of Edinburgh on the 1st of August, we notice the names of the following Canadians:-Doctor of Medicine : Robt. Alex. Gibbons, Canada, M.B., and C.M., 1874 ; marked as being worthy of competing for the Dissertation Prizes. Bachelor of Medicine ard Master in Surgery: Alfred Joscph Harvey, (B.A., McGill,) Newfound̉and; John Oke Horden, Canada; Andrew Walker Ferdman Lindsay, (B.A., Dalhonsie,) Nova Scotia; Arciu: Charles James Rudd Lunly, Canada; Jno. Stewart, Nova Scotia. The M.D. was couferred on 33 geatlemen (of M.B. standing), and the M.B. on 105 : M.B. and C.M., on 98.

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## EXPERIENCE IN PUERPERAL ECLAMPSIA.

BY A. J. JESSUP, M.D., Oi Westown, New York.

In my experience of eclampsia in the puerperal state, I have observed the following facts:-

1. There has always been albuminuria, or, more strictly speaking, uræmia; although undiscovered, from lack of thoroughness in examination.
2. In a majority, the convulsive seizures occur between the fifth and seventh month of utero-gestation.
3. That a firm tibre, with an adipose temperament, are the class, à priori, in which we would most frequently expect convulsions.
4. When setting in after labour, with complete or nearly complete suppression of urine, death is inevitable.
5. As a nearly exceptionless rule, when labour has declared itself, empty the uterus as soon as practicable, no matter at what period of pregnancy occurring.
6. When there is no declared action of the womb, refrain from interference, unless at full term, when, if convulsions persist, empty the uterus.
7. Almost always when occurring prior to full term, the life of the fretus is destroyed; occasionally this happens at full term. These results being due to convulsions or blood-poisoning to the fæetus, or both.
8. When conditions are favourable, extract blood largely.
9. Chloroform must always be an adjuvant to venesection, or, when the former is not practicable, give to control the fits; the method will be mentioned further on, when mentioning cases.
10. The use of some free evacuant to bowels, skin, and kidneys, is most imperatively demanded, the object being, as far as possible, to unload the blood of the poisonous principles, the elements of the urine.

My object in this report is merely to give the aspects and mode of management of my
cases, and not to enter into a pathological history of the disease; to offer them to your readers as my quotum toward the aggregate of experience in this interesting affection.

Case 1.—Mrs. J. Reported by Dr. J. H. Thompson, May 28 th, 1870 , in the Medical and Surgical Reporter of that date. Patient was my wife; the main peculiarity in treatment was the extraction of blood from the femporal artery, owing to the excessive celema of the arm concealing the veins, and rendering vencsection impossible, together with a concurrent dislocation of the humerus, caused by a fall from her couch during the first convulsion.

Case 2.--Patient was the same lady, aged twenty-eight, at full term July 13th, 1871. Fits occurred at full term, after delivery. Albumen first seen at sixth month; urine was tested daily up to day of confinement, showing increasing proportions of albumen, until it became nearly solid in the test tube; kept up a thorough dietetic, diuretic, and moderately laxative treatment, which, however, did no more than prevent anasarca, and kept up a moderate flow of urine, without relieving the renal oppression. A consultation was proposed, with the view of bringing on premature delivery, but was objected to by patient ; she preferred to assume all rists, in the hope of having a living child. Here we cannot too much admire the heroic unselfishness of mothers, who prefer to hazard life itself rather than forego the prospect of maternity and all its hallowed affection, which extends even to the child yet unborn. After a tedious labour of nine hours, tedious from rigidity of the os, was delivered of a still-born child at full term, weighing eight pounds. One halt hour afterward seized with clonic convulsions, affecting chiefly head, face, and arms. Pulse feeble, 140 ; weak; skin cold ; countenance purple; there did not seem power in the fecble heart to propel the blood to the surface, therefore venesection was without results. Two medical friends saw her, agreeing that her condition was one of uremic oppression of the nerve-centres. The slight convulsions were warded off by chloroform, and, indeed, they formed no material element in her danger ; she remained semi-comatose during the night, arousing at intervals, taking cold water
freely; no urine ; bowels would not respond to jalap, elaterium, or two drops of croton oil. On using the eatheter obtained abont one-half ounce of urine, very clask, of the consistence of molasses; no more secreted while she lived. There seemed no response from the nerve centres of organic life, to any stimuli employed; pulse, seven hours after tirst convulsion, was beyond computation; coma complete. The final scene ended fifteen hours after the first fit, and twenty-seven hours after commencement of labour. Toward the end congestion of the lungs was present very markedly.

This mode of death from uremia is mentioned by Alonzo Clark. Here was a case in which the nerve-centres, brain, medulla, and all the ganglia of organic life were overwhelmed by the blood-poison everywhere present throughont the tissues, supplied by the vitiated fluid, whose deadly effects were observed even on the fotus in utero, failing, as I believe, to support the life there, on account of its poisonous ingredients. Being insufficient to supply the medulla and par-vagi, they, in their turn, failed to stimulate the heart and lungs, as evidenced by the damming of blood on the right side of the heart, and slowness of the respiratory actions. By the breathing during the last twelve hours of life, it would seem that the par-vagi were insufficient, by their inhibitory function, to keep up normal respiration, the character of the breathing being thus: becoming slower and at longer intervals, until scarcely perceptible, then there would come a deep gasp, then the process repeated as before; as if nature required to be supplemented by the voluntary act in order to re-establish her fanction, which, when removed, respirations came faint, and fainter, until the vital function seemed almost submerged by the letheal tide, before a voluntary effort would come to temporarily restore the function, until final congestion and 3 insensibility marked impending dissolution.

Another effect of this blood state is shown in the failure of the sympathetic to respond to cathartic action, the kidneys to diuretic, resulting in engorgement, congestion, inflammation, and final suppression of secretion.

The skin acted profusely, but only by a wa-
tery exudation, without smell or colour, and valueless as an outlet of poisonous materials.
I have dwelt thus long upon this case, because of the deep personal intorest, and also hoping to throw some light upon those physiological and pathological actions of which $I$ have seen no adequate explanations in the writings or teachings on the subject of urremia, and hoping they may aid in throwing some light on the phenomen of other cases of this disease. I pass on to Case 3, merely hinting that those gentlemen who claim never to have lost a case of eclampsia, who are drawn up in battle array against those who have, should consider that it is their good luck, and hoping that, should the time come when they will meet one of these helpless cases, they may feel more charitable to their more unfortunate brethren.

Puerperal eclampsia; primipara, 7 months, ret. 22, with delivery by craniotomy. E. T.; called December 31st, 1874; of robust physique, in seventh month; being absent, Dr. Whitaker was called, both being present at 3 p.m.; had had four convulsions a few days previously ; complained of headache, vertigo, and general malaise ; with the doctor's help withdrew 28 ounces from the arm ; at $4.30 \mathrm{p} . \mathrm{m}$. a fifth fit occurred; kept her under chloroform until one hour had passed; the sixth fit occurred. The doctor left; I kept her under anæsthetic nearly continuously for three hours, giving thirty grains potassium bromide every thirty minutes, and half grain morphia, subcutaneously; not repeated; no more convulsions, trine highly albuminous; prescribed inf. dig. with an active purge.

January 1. Pulse, 90 ; temperature, 98 ; had rested well; bowels had acted freely ; urine normal in quantity, albuminous.

From this date until January 6th was about the house ; on the evening of this date was taken in labour, with some pains until 8th, when they began more actively; on being called, was again absent; Dr. Whitaker saw her; found os would admit two fingers; gave a full dose fl. ext. ergot ; left. When I saw her the os was as large as a half-dollar; uterus seemed in a state of tonic contraction, with rigid os. Feeling certain that the ergot was acting badly, and having some anxiety that my patient should.
do well, having passed through one siege of eclampsia, I regretel the dose having been given; howerer, it would du no grood to lament, so I tried every known method to relax the rigid os without avail. At 2 a.m. the same night, the pains continuing severe, without further dilatation, patient becoming exhansted, with a wild look in her eyes, what I most dreaded happened, one of the most severe, longcontinued convulsions I ever witnessed; bled to 16 ounces ; chlorofirm ; a sec nd fit occured in thirty minutes. I ktpt her fully under chloroform ; sent for Dr. Whitaker and Dr. Haynes. who, arriving, agreed with me that, as it was unsafe to attempt delivery with forceps, we should proceed to deliver by craniotomy at the earliest porsible moment, as we had grave reasons to fear a third convulsion like the last. Dr. Whitaker gave the anmesthetic ; Dr. Haynes aiding by supporting abdomen, I proceeded to perforate; guarding the lips of the os ly the fingers of the left hand, I succeeded in breaking down the cranium and delivering. Uterus contracted well ; patient, after some fever and debility, malle a good recovery. Thre was no doubt about the life of the child being extinct; motion had not been felt for more than twentyfour hours past.

I do not remember having heard of a case where craniotomy was required from such a cause. This case required immeliate action; delivery must be had without delay, all the medical men present agreeing that the brain could not withstand the pressure of another convulsive seizure.

Case 4.-Puerperal uramia, witi: impending eclampsia. A. Mc——, aged 27 ; primipura; adipose ; plethoric ; haml always had perfect health; had been suffering with headache, with abdominal pains, referable to regrion of the stomach, and nausta, for one week previous to my visit. I was called on account of a violent and persistent headache. She described pain "as if caused by a nail being diven over right eye." I tested urine, and found it highly albuminous. While engrged in this, patient called mo to the bedside. She sat up, saying that she cond see but half of my face, while the supra-orbital pain became so intense as to cause her to cry out with agony. Withont
losing a moment, I took blood without stint, not caring for measurements. I bled matil she fell ovir on the bell, fainting, in all a large wash-hasin, nearly full-about three pints. This relieved the intra-cramial pressure, as also the pain and defect of vision. The usnal evacuants, with sedatives, were prescribed. At the end of three days I was summoned to attend her in miscarriage, doath of the foetus having taken $\mathrm{p}^{\mathrm{l}}$ ice, and, of course, the uterus proceeded to expel the fireigu substance. This must have been a result of uremia. This case will also illustrate the necessity of extreme caution in deating with preguant primipare. We should examine the symptons with extreme care, to the end that we may be enabled to step between the patient and danger or death, and so happily ward off either.

Apropos. Since we have so powerful an agent for relief, when used in proper cases, it would be well to remind those physicians who, in following modern farhions too much, neglect this important therapeutic agent, that in seeking a substitute in chloral, veratrum, aconite, and other deadly agencies, they are handling two-edged sworts, which oftener sever the "silver cord" than relieve disease, and would call their attention to the report of a case from the pen of W. II. Parrish, in the Reporter, Febuary 23rd, 1876, Case 3. The treatment there needs no comment.

Cace 5.-Mrs. DeG., age 23, primipara, full term, of delicate frame but healthy ; albaminuria; venescetion, twelve ouncess. In this case chloroform controlled fits casily (as indeed it did in all of my cases subsecquent to venesection). Labour set in three days afier, with the birth of a healthy child.

I will conclude with a description of the method which $I$ have found most useful in administering chluroform.

The fits generally recur at exactly equal intervals. For instance, if the first two are fiftern minutes apart, they will continue to recur at the end of each fifteen minutes; if half-hour apart, one hour, and so on, unless the order of succession is broken by your eflorts to subdue, or some change takes plate in the phase of the attack. The practical application of this observation will be appreciated when giving chlo
roform ; it would be unwise to keep a patient under chloroform from hour to hour, so my plan is to watch the clock, and when the time approaches when we may certainly expect a convalsion, I bring the patient fully under, keep her so until the time is past, then discontimue until the next, and so on, when, after four or five hours of sach treatment, your patient will be securcd for a considerable time, say twenty-four or forty-eiglit hours, from a recurrence of the fits; generally the period of immunity persists until the onset of labour. There is one little caution needed. We will suppose you have controlled three fits; in doing so you have broken the order of their regularity. You then relax your vigilance, and are surprised by a fourth.

Now, to make sure that there shall bo but one fit after I enter the bouse, $I$ pursue the method as above, with the furtioer watchfulness of commencing the anmsthetic at the slightest signs of restlessness, staring, etc., which signs are generally the premonitions of a convulsion. Such a plan, followed for several hours, will, as remarked above, save your patient from the added risk of even one convulsion. Adjuvants, as mentioned above, will carry your patient on, until labour supervenes. If it has set in the uterus must be emptied as soon as practicable.-Med. and Surgical Reporter.

A Young Mother.-An esteemed and entirely trustworthy correspondent has furnished us with the following fitcts touching a case which came under his observation. As an instance of early maternity, the case is one which certainly vies with any case on record : The girl first menstruated when ten years and six months of age. She became pregnant at eleven years and six months, and was safely delivered of a male child January 19th, 1875. The reputed father of the child was, at the time, a hopeful of fourteen years of age. The child is still alive, but not very strong or bright, although the promising parents are doing as well as could be expected.-Detroit Journal.

Hydrobromic Acid is highly spoken of in tinnitus aurium.

## OBESITY AND AMENORRHCEA OF YOUNG WOMEN TREATED BY MILK DIET.

M. Tarnier was consuited some time ago by a young woman who had been suffering from albuminuria. She was very fat and had not menstruated for several months. He ordered only the vigorous employment of a milk diet ; some months later he saw her again, and was surprised to find her quite slender in form, and presenting all the appearance of health. She had followed his directions to the letter, and the amelioration of the symptums had been rapid. First the albumen disappeared from the urine, and the: the precocious obesity disappeared. Menstruation was gradually reestablished as she grew thin, and her periods had began to occur at normal intervals. Shortly afterwards Tarnier ordered milk diet to a young woman who was very obese, and in whom there was absolute suppression of the menses. She had no albuminuria. The patient lost flesh rapidly, and menstruation was perfectly re-established. These cases possess much practical interest. Milk diet must be classed among the alterative merlications, but it has the advantage of being well borne by the stomach, and of not disturbing the general health. In treating albuminuria with milk, M. Tarnier orders : For the first day, one quart of mills with two portions of food; for the second day, two quarts of milk and one portion of food; for the third day, three quarts of milk and one portion of food; for the fourth day and afterwards-four quarts of milk and no fond at all.

In the treatment of obesity it is not necessary to adhere so vigorously to the milk diet; a small quantity of the ordinary food may be allowed. The patient may take the milk in such quantities, and at such times, as she likes, provided she takes the requisite quantity per diem. The duration of the treatment will vary in different cases. If diarrhœea set in, it is a sign the treatment is not well borne. When the desired effect begins to show itself, it continues even after the treatment is suspended. Jour. de Med. et de Chir., Vol. 47.-N. Y. Medical Record.

## dustry in enatiar.

## A CASE OF VESICAL CALCULUS.

BY J. E. GRAHAM, M.D.
Toronto General Hospital.
Wm. Davie, aged 38 years, labourer. When about eight years of age (living at that time in Suffolk, England) was troubled with pains in glans penis and stoppage of stream while urinating. This continued for about three years, when it disappeared almost entirely under appropriate measures. The next attack of any consequence was when he was 17 years old, but this also succumbed to treatment. Has had several similar recurrences since then; never been entirely free from pain and symptoms since disease first appeared. Came to Canada in 1857. Last attack, which is the worst he has ever experience?, came on about end of April, 1877. He attributes its severity to a strain received at work. Was obliged to take to his bed. Symptoms: Pain across lumbar region of back, and down right hypochondriae and right lumbar regions, and in hypogastric region.

Pain of a burning, smarting character. While urinating stream stops suddenly, and only proceeds on changing position. Can pass but a few drops at a time. Stone was found on examination, measuring __

First crushed May 18th, and ascertained to be phosphate of lime. After operation, complained of a good deal of pain about hypogastric region. Passed water contintally, a few drops at a time, tinged with blood, and containing some pus. Bladder syringed out daily with tepid water. Inflamnatory symptoms subsided. Second crushing attempted May 26 th ; unable to detach any fragment. After operation : pain in vesical region, and passage of urine laden with blood and pus; bladder washed out daily with solution of salt or nitric acid, $3^{s s}$ to a pint. Difficulty in introducing catheter past aeck of bladder. May 30 th, blood entirely disappeared from urine, but pus still present. Complains of weakness and chills, which he says have troubled him for some time, corning on at stated periods. Ancrexia, aphonia, pulse 120. June Ist, pulse normal, complains of we:kness and chills, fol-
lowed by apyrexia. Suddenly taken worss about $6 \mathrm{p} . \mathrm{m}$., and died at 11 pm . sime night.

Post-mortem, June 3. Round tumour below and behind pubes, very hard. On removal found to consist of bladder contracted close down on calculus. Calculus, $2 \frac{1}{2}$ inches long and 2 inches in breadth, weighing $\overline{3}$ iii. 3 vi . In appearance and shape like a fair-sized hen's egg, surface yellowish white, tud tolerably sinooth, except at one side, where the friagment, remuved at first crushing, had left a denuded roughened surface of about three-quarters of an inch in length and one-half inch in breadth, showing strata of calculus. Bladder contracting and pressing calculus close beneath pulis, prevented introduction of catheter. Base of bladder full of fragments of calculus of various sizes, some being very sharp and pointed. Coats of bladder very much hypertrophied. Kidneys: left kidney strawberry colour, cirrhotic, contracted to about one-fourth its normal size. Tissue各 degenerated, and very friable. Right kidney : tumour felt on right side, extending from the tenth dorsal to the third luabar vertebre. On examination, found to be the capsule of right kidney distended with coagulated blood. Kidney itself much hypertrophien, being about $1 \frac{1}{2}$ times the normal size towards inferior portion of cortical portion, a small aporture about one eighth inch in diameter, through which blood had escaped. Tissue of kidney degenerated. Colour darker then normal. In hilus, catculus found about $1 \frac{1}{2}$ inches in length and threequarters inch in breadth at broadest part, weighing 1! oz, very irregular in shape, and of same compasitionas vesical calculus. Liver not ex:mined.

Had always been accustomed to drink pretty heavily.

In Suftolk district, Fugland, calculus is very prevalent. Grandfather's brother's family very subject to it, but is the only one of his branch that ever had it.-Reported by Mr. Burton.

Mr. Simon (in the Chicago Medical Journal and Examiner) states that he instantaneously cured a case of hiccough, which had lassed twenty-six hours, by the inhalation of three drops of nitrite of amyl.

WOUND OF THE FEMORAL ARTERY BY A PISTOL BULLET-LTGATIONDEATH THIRTY-ONE HOURS AFTER.
by r. zimmerman, m.d.
Toronto.
George Rennardson, aged 47, was shot by his son on the evening of June 27th. I saw him a few minutes after the injury, and found that the bullet had entered the apper and front part of the right thigh about one inch below Poupart's ligament, and exactly over the course of the femoral vessels. When I arrived, the hemorrhage, which had been profuse, had completely ceased, as far as one could judge from external appearances. The man was very weak, and complained of great pain in the leg, which was exceedingly tender. A swelling, apparently due to blood clot, could be felt under the skin around the wound. There was no pulsation in the femoral, popliteal, or posterior tibial arteries. I applied a compress and spica bandage very firmly over the wound, and gave morphia hypodermically to ease the pain and vomiting, both of which were severe. Dr. Cias idy, who had been sent for at the same time as myself, now arrived, and we appointed to see the patient together early in the morning. Abont 5 a.m., I was obliged to repeat the morphia hypodermically. At 9 a.m., Dr. Cassidy met me, and we found that the limb was still pulseless below the wound, very cold, and much swollen between the groin and the knee. Fearing internal hæmorrhage and gangrene of the leg, it was decided to cut down upon and ligate the wounded vessel, which I accordingly did at 10 a.m. Present-Drs. Cassidy, Greenlees, Cameron, Grasett, Teskey, and Cowan. On reaching the deep fascia and withdrawing my finger, which I had passed into the wound, the blocd gushed out. Digital pressure over the femoral artery readily controlled this, and the femoral vessels being exposed, ligatures were placed round the fermoral artery above and below the wound, which was situated about one inch below Poupart's ligament, and had perforated the artery. The ball was not visible, and it was not considered desirable to search for it. Very little blood was lost during the operation, although there was some difficulty in passing the upper ligature on account of the pressure
that had to be kept up on the artery. The edges of the incision were brought together by wire sutures and the patient placed in bed the limb being wrapped in cotton wool and surrounded again with hot bottles. The patient rallied well from the chloroform, and was pretty comfortable during theday, although exceedingly weak. At 4 a.m., on the $29 \mathrm{th}, \mathrm{I}$ was sent for, and found him dead. At the post-mortem a conical pistol bullet was found lying on the capsular ligament in front of the head of the femur: it was flattened on one side. The artery was wounded immediately above the profunda, so that one ligatine was above, the other, below the origin of this ressel which was not seen during the operation. Had collateral circulation been established the blood would have travelled through the branches of the profunda to the wound and profuse secondary hemorrhage mast have occurred. The collateral circulation to the leg being thas cat off, even if the secondary hromorthage were controlled in time, gangrene of the leg would have been almost inevitable. Transfusion and ampatation of the leg at the hip-joint might have given him a chance for lffe. It is probable that syncope, from the great loss of blood, and subsequent coagulation of the blood effused into the tissues about the wound, averted an immediately fatal termination. A large quantity of coagulated blood was found extending along the yessels up into the abdomen and down the thigh. All the organs of the body were healthy, though almost bloodless.

LARGESCROTAL HERNIA IN A YOUNG CHILD ; OPEPATION FOR RADICAL CURE BY WOOD'S METHOD.

Under the care of Mr. Wood, King's College IInspital.
On Saturday last Mr. Wood operated on a case of large scrotal hemia, in a child aged three years. The case presented several points of interest. The appended remarks have an additional value, inasmuch as they give the results of Professor Wood's most recent experiences.

The case was congenital, and no truss was of any avail. The abdominal opening was large enough to admit easily two fingers direct, and
very lax. The coverings of the sac were thin and delicate. The case required delicate and careful manipulation from the great tendency of the bowel to rush into the sac under the least strain. The rupture could be returned, and kept up most easily by holding up the little patient's legs and pelvis. The fingers of the assistant were then placed over the hernial opening, while the preliminary incisions were being made. The sutures were then placed securely, and the loop of wire tightened up and twisted, with the effect of entirely closing up the hernial aperture. Pressure was then made by a pad and spica bandage, and the child's knees drawn up and held securely together by a roller.

In his remarks after the operation, Mr. Wood stated that he had now operated in more than 200 cases, but few of them were so young as this case, for the reason that it was found difficult to control one so young during the critical period just after the operation. This case, however, was so severe and uncontrollable, and so certain if left in its present state to disable the patient for life, that an exception was made to the above rule. With reference to the supposed danger of peritonitis, Mr . Wood said that of the three deaths which had occurred in his hands out of the 200 cases, only one was from peritonitis, but even this was found to arise on the opposite side of the abdomen to that operated on, and to have started from a knuckle of bowel which had evidently been in the sac before the operation, and pressed upon by the truss. No inflammation was found in or near the sac operated on. He had found symptoms of peritonitis in not more than 10 out of the whole 200 , and then it was usually slight, and confined to the paristal peritoneum. The chief thing was to choose only healthy subjects for the operation, and to be careful to provide a free escape for any discharge which might occur. Usually the after-discharge was very scanty, and consisted chiefly of serum, which crusted the wound. The wire should not be disturbed till a week or ten days had elapsed, and both the doubled ends had nleerated into the same track or channel. Adhesion and granulation would by this time have matted together and made adherent the enclosed and
twisted sac and parietes of the canal. In a severe case the adhesions usually remain for some time delicate and tender, and require support from a well-fitting truss till they are firmly consolidated. In a small and favourable case, however, the sides of the inguinal canal become blended together over and around the spermatic cord, and the natural valvular functions which prevent rapture are restored and maintained. As far as he could follow the numerous cases, he found an average of cures of about 70 per cent. Some had been shown from time to time in the theatre of King's College Hospital after a lapse of eleven, fourtecn, and sixteen years; remaining (one under severe tests) perfectly well, and requiring no truss after the first twelve months. -London Lancet.

## ACUTE ABSCESS OF THE TONGUE (UNILATERAL) ; RECOVERY; REMARKS.

Under the care of Mr. Bellamy, Charing-Cross Hospital.
Suppuration of the tongue in any form is a rare condition, but unilateral suppuration particularly so. It is a disputed question whether the seat of inflammation is in the muscular tissue or in the interfibrillar cellular tissue. It should not be forgotten that the cellular element in the tongue is scanty, and is disposed in very delicate lamellæ, especially towards the middle portion of the organ-the seat of abscess in this instance. The seat of the swelling is somewhat important anatomically in regard to the differential diagnosis of cancer. The case here recorded was, it will be seen, in all probar bility the result of the introduction of some septic material immediately beneath the mucous membrane, in which the lymphatics form a very free network, terminating in the submaxillary, infra-sternomastoid, and pre-thyroid ganglia, which were involved.

The patient was a child aged seven, who presented herself with a very painful unilateral swelling of the right half of the tongue, which was much furred. It was said that the tumour -which was so large as to render protrusion of the organ impossible-cume on suddenly; but examination disclosed a small jagged cut on
the under surface of the central portion of the tongue. It would almost appear that some particle of decomposed food had been lorlged in the wound. The tumour involved the entire dorsum of the one side, being clearly limited by the central line. A plunge of a lancet evacuated a large quantity of pus. It was clearly shown that the abscess was in the proper substance of the tongue, and the limiting effect of the septum upon the diffusion of the pus was well exemplified. The topography of this septum could be easily demonstrated as being strong and thick mesially and posteriorly, gradually becoming thinner towards the tip, where the swelling seemed to involve both sides of the organ. Mr. Bellamy called attention to the fact that the trunk of the ranine artery is liable to lie loose in the sac of a lingual abscess, and would give great trouble if divided ; and, moreover, that, owing to congestion, the venous system of the tongue becomes enormously enlarged and the free inosculation increased, consequently severe hemorrhage may be the resuit of an ill-directed "slash" into a lingual abscess -London Lancet.

Experments to Siow the Presence of
Mercury in Mómer'; Milk.
A number of investigations have been made recently to settle the muck-vexed question as to whether the presence of mercury could really be shown in the milk of a mother to whom mercury hat been given. The investigations made in Jutikowski's laboratory, after Schmeide's method, demonstrated the presence of mercury, putting the matter heyond all doubt. The amount of the mineral was very small, and the reason why it had not previonsly been demonstrated was because the quantity of milk usel in the test had been altogether insufticient. Rundschaus.

Dr. Bryan, of Louisburg, Kansas, records in the St. Louis Medical and Surgical Tournal for July, a case of gestation prolonged to four hundred and forty-two days. He states that the facts can be established beyond cavil.

India-rubber caps to feeding bottles, toys, etc., sometimes contain enough oxide of zinc to make them a source of danger.

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MODERN OTOLOGY.
BY R. A. REEVE, B.A., M.D.
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(Read in part at the meeting of the Canadian Mredical Association, held in Toronto, August, 18T6.)
Fifty years ago this part of the domain of medicine was quite uncultivated, and the rankest empiricism prevailed. Indeed, the two chief aids to the study and treatment of aural disease have beeu given to the profession within the last twenty-five years, - the otoscope or earmirror, by Troltsch, in 1855 ; and the "airbag " for inflating the tympanum, by Politzer, in 1862. During the past two decades rapid strides have been made in the knowledge of the ear and its diseases, and to-day otology takes honowrable rank with the sister department of ophthalmology, To pass in review those points of aural medicine and surgery which are of the most practical importance is the purpose of the present pher. The indirect examination of the ear by the mirror, and the speculum,-a short conical or funnel-shaped tube of metal or hard rubber, -has supplanted the direct method by Kramer's bivalve or handled speculua, firmerlv in vogue, whioh Was, at best, an inofficient and rather painful process. With the ear to be examined turned away from the source of illumination, the speculum gently inserted into the month of the meatus and the light reflected from the mirror into it, ono can scan at a glance the meatus and drum-head; and can also readily determine the presence or absence of foreign bodies, cerumen, polypi, de. ; congestion, perforation, curvature, dc., of the drum-membrane; and, to a certain extent, the condition of tho tympanum. With the mirror attached to the forehead band, and both hands free, one can manipulate forceps in the meatus or cauterize gramulations without giving pain, or evacuate pas from the middle ear by incision of drum-head, or remove polypi, \&c. In fact, the introduction of the ear-mirror has revolutionized aural surgery, and its use enables one to avoid dificulties that were once very perplexing. It is no longer in order to
prescribe frequent and forcible syringings for the removal of cerumen that is not present, or to bliadly grope for foreign bodies which have already escaped from the meatus, or possibly never entered it.

The Politzer apparatus-a large rubler bulb or bag with a rubber tube ending in a nosepiece attached to its nozzle-is very servicoable in diaguosis and prognosis, as well as treatment, to determine the patency of the Eustachian tube, the mobility of the membrana tympani, presence of perforations, \&c. It is used as follows : a sip of water is taken, the nose-pice is put into one nostril, and both nostrils are tightly closed; then, as at a given signal, a nod e.g., the patient swallows, the bag is suddenly and forcibly compressed. The air rushes up the Eustachian tubes, distends the middle ears, and causes an outward movement of the drumheads. This procedure often effects a very marked relief of subjective symptoms and a decided improvement of the hearing. In cases of acute inflammation, after the acute stage has passed, it clears the tube and middle ear of secretions and restores the normal position and mobility of the drum-head, and also by preventing adhesions tends to preserve the functions of the tympanum. The periodic use of the anr-bag is indispensable in the insidious progressive deafness (chronic aural catarrh) secondary to naso-pharyngeal catarrh, where the calibre and patency of the Eustachian tube are lessened and its functions otherwise impaired, and the drum-head is becoming stiff and abnormally concave. The Politzer method is no less valuable in the sub-acute and chronic aural catarrh of childrea, upon whom, moreover, the Eustachian catheter cannot be used. It is also useful in the cleansing of the middle ear prior to applying remedies, by forcing the secretions into the meatus, from which they can be removed by the douche or syringing; and also after instillations of medicated solutions to secure their proper entrance into the tympanum through perforations. In view of the commonness of ear disease and the great utility of the air-bag in its treatment, it is an additional merit that its use requires no special skill. It is now frequently pat into the hands of the laity.

Though the Eustachian catheter,-a slender tube of about six inches in length, slightly curved at one cud, and preferably of had rubber, introduced through the nostril--yiolds the palm to the Politzer method for the convenience and wide range of its application, its great value is fully established, not only as an eflicient adjunct of the air-bag, but for the direct treatment of the Eustachian tube and tympaum by vapours, astringents, \&c. The tuming-fors is now generally used in diagnosis and prognosis. If the shank of a vibrating tuning-fork be placed on the vertex or forehcal, the vibrations are heard most distinctly by the ear whose drum-membrane is thickened, or meatus or Eustachian tube obstructed; and it is not well heard by the healthy ear mulcss the meatus be closed. In pure nervous deafness (disease of labyrinth) it is not heard under any circumstances. The rhinoscope is, in some cases, a necessary supplement to the other appliances, furnishing the means of deciding, liy ocular inspection, the condition of the posterior nares, vault of pharynx, and mouths of Eustachian tubes. The ear-tube is also employed, and is sometimes useful in auscultating the tympanum during its inflation. The examination and record of an ear case are not considered complete unless the hearing power be tested by the watch and voice; the rule being, to note the furthcst distance at which they can be distinctly heard by each ear in turn. A very useful appliance is the aural douche, with which the meatus and drum-head (or middle ear) may be irrigated by a continuous stream of warm water, pure or medicated. It acts on the principle of the syphon, and can be extomporized by using a pitcher, basin, \&c., as the reservoir into which is placed one. end of a long piece of narrow vulcanized tubing, leaded or weighted; the other end, armed with a small blunt nozzle of bone, hard rubber, \&c., being placed in the mouth of the meatus. A receptacle is placed closely under the auricle, and on raising the vessel a little above the head a gentle stream enters the ear. A gallon or more of liquid may be allowed to How at one sitting, and this may be repeated at short intervals or $p . r: u$. Its. use is generally attended by marked and speedy. relief of pain, more especially in the so-called
ear-iche of children. For tho thorough cleansing of the ear, the syringe is preferable to the douche, but unless the former be carefully used some distress and, at times, annoying vertigo are apt to be caused by the forcible entry of fluid through perforations into the tympanum. It is not unworthy of notice that pure warm water shoull, with few exceptions, be used, and the nozzle of the syringe shond always be rather blunt-pointed, so as to atvoid the risk of injuring the s-usitive meatus; and the old glass or metal article should be discarded for the more handy bullous form. A large hard-rubber or metal piston syringe is sometimes required for the removal of inpacted wax; and a little device, that is sometimes essential to success (also in the use of the mirror), is the straightening of the meatus by trantion upon the auricle. The value of ectly loc.al depletion by leeching is now widely recognized, in aborting inflimmation, subduing pain, \&e. ; and the congestion of the meatus and tympanum is most effectually relieved by applying the leeches just in front of, or within, the meatus.
As the physiological and pathological anatomy of the car becane better known, the old-time nomenclature of its diseases gave way to a simpler and more mational chassitication; which, somewhat abridged, is as follows :-

1. Afrections of the External Ear.*Diffuse inflammation (otitis extermu); cireumscribed indiammation (furuncle); inspissated or impacted cerumen ; czoma; phlypi ; vegetable fungous growths (otitis purasitica) ; foreign bodies.
II. Affections of tife Middle Ear or Tympanum.-Acute aumal catarrh (otitis media catarrhalis acuta) ; chronic aural catarth (otitis media catarrhalis chronica) ; acute suppuative inflammation (otitis media puralenta acata); chronic suppurative inflammation (otitis media purulente chronica)-the so-called "otortho:a," -with its complications or sequele, viz : polypi, exostoses, mastoid disease, caries and necrosis, paralysis, pyemia, and cerebral abscess.
III. Affections of the Internal Ear or Labyrinth-Otitis Interna.-Hemorrhagic, serous, plastic, and purulent otitis internc.

Affections of the external auditory meatus may generally be readily diagnosed with

[^1]the mirror. They are of less moment and of much less frequent occurrence thau those of the tympanum, and are much more amenable to treatment. The meatus being mainly a bony canal, lined with periosteum and integument, richly suplied with nerves and vessels, and in close relation to important parts, the special indication is to abort inflammation by prompt and free local depletion, the use of the douche, scarification of the meatus; early incision of furuncles; sudorifics, anorlynes, \&c.

The accumulated experience of the profession conclusively shows that the saffest and best mode of removing foreign bodies, inspissated cerrmen, do., from the meatus is by syringing with warm water-persistent and prolonged, if necessary, and with the affected side dependent ;-and that forceps, prohes, dc., should be used with great care, and generally only as a last resort, and then ander illumination by the mirror.

A somewhat interesting feature is the recent recognition within the auditory meatas, of vegetable fungus or mould (aspergillus, commonly) : tough, whitish ar blackish flakes, so clo-ely adherent to the meatus and membrana tymproni as to necessitate the use of the forceps for their removal, together with subjective sensations of pain, timitus, and vertigo in an ear tree from suppuration, are suspicious indications. The microscupe decides the question. A cure is effected by the frequent removal of the fungus aud the instillation of such parasiticides as alcohol, acid carbolic, calcium hypochlorite, hyilargyri perchloride, de.

That much misconception has prevailed in regand to the pathology of disease of the middle ear, is shown by the established use of such misnomers as "ear-ache" and "otorrhea." Nowarlays, the one is properly regarded as merely a graphic expression for a prominent symptom of acute inflammation, and the other but the sign of a more or less serious morbid process. The intimate relation between the naso-pharynx and the tympanum has fortunately become recognized, and it is no longer thought doubtful that pharyngitis is the most prolific source of ear disease. Tubal catarrh, catarrh of middle ear and hypertrophy and sclerosis of its lining membrane, rigidity of
the ossicles and drum-head, and a sunken or collapsed state of the latter from external pres-sure-owing to non-supply of air to the tympanum from partial closure of the Eustachian tube,--subjective noises (timnitus); and deafness, frequently profound: these are the train of results (chronic aural catarrh) that sooner or later follow a recurrent or confirmed nasophyaryngitis; as surely, indeed, as does "abscess" of the middle ear occur in the angina of scarlet fever or measles. Hence the systematic treatment of the nares, pharynx, and Eustachian tubes by the application of astringents, caustics, \&c., by nebulizers, insufflators, syringes, gargles, and catheters, has become an integral part of the therapeutics of aural surgery. And it is to be hoped that ere long, through the medium of the profession, the laity will learn that "throat deafness" is none the less certain and serious in its effects because, as a rule, of an insidious and painless character; and that the "stupidity," thick sperch, snuffling, and excessive expectoration, of multitudes of naturally bright children are due to a common cause, a neglected naso-pharyngitis, with resulting tubal and aural catarrh, deafness and "dulness," and that by timely attention these sources of parental grief and annoyance may generally be made to disappear simultaneonsly. It is, perhaps, not out of place here to remark that the indiscriminate and self-appointed use of the nasal douche by the myriad sufferers from "catarrh" is injuring many ears, through the inflammation excited by the forcible entry of fluid into the tympanum, cansed by the act of swallowing. An intermitt-nt stream of moderate force directed into the open nostril from an enema syringe, or the use of a posterior naves syringe (of which Warner's is about the best), would be much safer and equally effectual.

The increased responsibity devolved upon the family physician by the advances in otology deserves notice. He is generally in a position to detect aural diseases in their incipient stages, when they are especially amenable to treatment, and long before the integrity of the organ is beyond recovery. Even the casual reference to the presence of subjective noises (tinnitus) should arouse his suspicions, for tinnitus indicates irritation of, or pressure upon, the
labyrinth, and is a common symptom of aural catarrh, often an early one. If, again, in a case of scarlet fever, e. g., it is found that in spite of leeching (if such can be borue), douching, use of air-bag, and treatment of angina, \&c., the aural complicatiou is rapidly running into the suppurative form, then a timely puncture or incision of the drum-head (as by a cataract needle with long shank) will evacuate the pus accumulating in the middle ear,-which generally finds vent by spontaneous perforation, ulceration, and loss of the membrane ; and following this up by frequent cleansing of the ear by Valsalva's or Politzer's method and douching, and the instillation of astringent solntions, as, e. g., sol. zinci sulph. 1 to 5 grs ad $\mathfrak{j i}$ i., ter die, and in a few days, if need be, by sol. argent nit. 20 to 80 grs . ad $\overline{3} \mathrm{i}$., daily,-the middle ear can be restored to a healthy state, the perforation becoming closed and the hearing recovered, in from two to six weeks. Whereas, when such cases are neglected and allowed to become chronic, we can never predict-to cuote the late Sir William Wilde-" when, where, or how, they will end." They will, most probably, eventuate at least in loss of part of the drum-head, and adhesion, in whole or part, of the remmant to the promontory, \&ce, and in permanent impairment of the hearing. It is to be hoped that the laity will soon learn the impropriety of leaving "ruming" ears to dame Nature for their healing, for the dangers of a do-nothing course are amply attester by the innumerable instances in which, in constitutions vigurous in spite of the diain upon them, the hidden spring continues its foul discharge for ten, twenty, thirty years, deafness supervoning, with its attendant disabilities, or possibly premature death from secondary cerebral abscess, \&c.

What are the pathological conditions and import of the so-called Otornhoa (otitis media purulenta)? We must premise that the middle car is, in most cases, the seat of the diseasenot the meatus, as is commonly thonght. Consider the anatomy and relations of the tympanum : the cavum tympani is lined by a modified mucous membrane continuous with that of the Eustachian tube and mastoid cells, which is virtually a periosteum; it is traversed by the facial nerve and contains the delicate ossicles
and trmpanic muscles ; posteriorly are the mastoid cells, anteriorly the Eustachian tube ; the brain lies on its roof,-which; by the way, is often so thin as to be a mere skylight, with the dura mater for a curtain,-its inner wall is in contact with the labyrinth and the internal cartoid artery, and its floor rests upon the arch formed for the internal jugular, while the mastoid cells are in close proximity to the lateral sinus; and the bony walls of both the tympanum and cells are traversed by bloodvessels, which form ready channels for transmitting purulent infection to the jugular vein and lateral sinus, de.

The various morbid conditions to be found are as follows:-The drum-head partly or wholly lost by ulceration, with caries or necrosis of one or more ossicles or anchylosis ; the mucous membrane of the tympanum vascular and granular or studded with polypoid granulations; bunches of granulations due to and hiding a localized necrosis or caries; the meatus plugged by a polypus, around which is oozing thin foctid pus the more solid part of which is retained in the tympanum as a putrid, cheesy mass; necrosis of some part of the bony wall and simuses leading to diseaser cells; sub-periosteal thickening of the external meatus (exostosisj; and in some cases periostitis of the mastoid, caries, necrosis, fistula, de. Implication of the mastoid is a grave and not mocommon complication of disoase of the middle ear: pain, tenderness, and swelling, at once indicate extemal periostitis, while frequent and painful exacertiations occurring in the course of a suppuation of long standing, or deep-seated pain which does not succumb to leeching, de., point to internal periostitis, caries, de.

The significance of otitis modia purulenta, in one aspect, is shown in the record* of seventyfive cases of cerebral abscess, by Drs. Gull and Sutton, of which twenty-five, or about thirtythree per cent., were directly traceable to chronic suppurative processes in the middle ear-a higher percentage than from any other cause. Roosa, in his valuable work on the ear, tabulates forty cases in which death eusued from secondary meningitis, pyæmia, aud cerebral abscess, caused by oar disease. But no tables an convey the disability resulting from the loss of hearing-a dead werght in the race of lifewith its reflex effects on mental development and material success.
(To be continued.)

* Reynold's System of Mrcdicine


## formutarites.

Tincture of Phosphorus.-Dr. Emerson, NiY.

| Phosphorus | 6 centigrammes. |
| :---: | :---: |
| Absolute Alcohol .. | 10 grammes. |
| Glycerine. | 24 " |
| Alcohol (at 90 ${ }^{\circ}$ ) | 4 |
| Essence of Peppermint | 2 " |

Dissolve the phosphorus in the absolute alcohol and glycerine, and flavour with the alcohol and essence of mint. Solution is complete, and the liquid remains perfectly clear. This preparation is employed in two-gramme doses every three or four hours, in the treatment of neuralgias.-Trans. Am. Neurol. Assoc.

Russian Drops.-Niemeyer.
Wthereal Tinct of Valerian 8 grammes.
Wine of Ipecac. . . . . . . . . 4 "
Laudauum (Sydenham) . 1 gr. 30 centigs.
Essence of Peppermint. . . . 5 drops. Mix.
This remedy is recommended to allay the obstinate vomiting of cholera. Ice internally, with Seltzer water, and Bordeaux or Champagne wine.-L'Union Medicale.

## Sedative Clyster.-Àan.

| Chl | 1 2 gramas. |
| :---: | :---: |
| Pulverized Gum Arabic | 8 grammes. |
| Yolk of Egg | No. 1. |
| Witei | 5 grammes. |

An enema, designed to allay the painful element of various affections, such as hepatic and nephritic colic, cystitis, etc. The water may be replaced by an infasion of chamomile, or a decoction of poppies.-L'Union Medicale.

Antirheumatic Draught.-N. Gueneau de Mussey.

| Salicylic Acid | 5 grammes. |
| :---: | :---: |
| Bicarbonate of Soda | 3 " |
| Julep gommenx | 120 |

Make a draught, of which a tablespoonful will be given every three hours in acute articular rhemmatism. The pains usually become less acute when the patient has taken two or three doses.-L'Union MEedicale.

Ointment for Eczema.-O. Will.

## Salicylic Acid........ 2 to 4 grammes.

Axungia . . . . . . . . . . 30 grammes, Mix.
This ointment is recommended in the eczematous affections of the head and face, and has been very successful in a large number of cases.-L'Union Medicale.

## Trumblutum.

## The Danger of Active Remedies in Cases of Renal Lesion.

It is now rather a long time since uhis curious symptom-viz.: the impermeability of the kidney io odours, in albminuria was remarked; thus it is that in these patients the absorption of turpentine or of asparagus does not give rise to the usual characteristic odour in the urine. Dr. Beauvais had even pointed out the fact, as sufficing, for himself, t: establish the existence of Bright's disease. When this defuct of elimination is prodaced by active romedies, as opiam, belladonna, etc., serious accidents may occur, hence the conclusion that these sulstances become poisons, even in small duses, in cases of renal alteration. M. Chauvet has fully demonstrated this fact in his thesis, hy the observations which he has collected, and has shown at the same time by experiments that the mode of elimina. tion of certain remedies is greatly modified by kidney disease. Take the sulphate of quinine, for example, its climination by the kidney in healthy suljects commences twenty-five minutes after its ingestion, and hasts three or four hours; moreover, there is found in the urine more than a quarter of the amount ingested. In persons whose kidneys are affected, on the contrary, the sulphate of quinine delays a much longer time in showing itself in the urine; its elimination may continue for eight hours, and the total quantity enminated varies between one-tenth and one-fiftiech of what was taken. These experiments were made upon a large number of different subjects.

The bromide of potassium, whose elimination is completed twenty hours after withinolding the remedy in a bealthy subject, lasts thirty or furty days in one whose kidueys are diseased.

Analogous results have been observed with the iodide of potissium, whose elimination otherwise is much more rapid.
M. Chauvet reports also two cases in which rapid and most serious mercurial intoxication occurred, produced by the absorption of Van Swieten's liquid in very moderate doses in the first case, and by a cauterization with the acid
nitrate of mercury in the second. In these two cases Bright's disease was found at the autopsy; the kidneys, acting only very imperfectly, had not been able to sufficiently eliminate the mercury, bence the fatal results.

Enylinh authors, who have well observed this susceptilility in alluminuric patients, advise the disuse of mercurials in patients affected with Bright's disense, salivation occurring more rapidly in them than in the normal state.

The athor again oites two other ohservations, in which accidents occurred from small doses of opium and atropine. In the former death resulted, in the latter-sulsequent to an instillation of atropine for an iritis-symptons of atropia poisoning occured; the patient dying later, tubercular kidneys were discovered.

From the totality of these facts it results then that discases of the kidncys render toxic, even when administered in small doses, certain active remedies, and that before ordering these it would be prudent to examine carefully into the state of the winary secretions. Moreover, an important fact from a medico-legal print of view, in an examination relative to poisoning by the alkaloids and the medicines called active, one ought rigorously to note the condition of the kidneys, since, as has been seen elsewhere in an amogous case, a medicinal dose may cause death under particular circum-stances.--Journal de Medecine et de Chirurgie Pratiques.

## On the Absorption of Medicines Throvgh the Mucous Membrane of tile Vagina.

Dr. E. W. Hombuyer, of Franzensbad, has made several experiments to prove to what extent medicines were taken up through the mucous membrane of the vagina. The experi ments were made in the following way.-Two tampons of clean cotton-wool, soaked in the solition of the substance, were introduced into the vagina throngh Ferguson's Speculum, after which two dry tampons were afterwards introduced. The tampuns were allowed to remair for twenty-four hours. The urine examined for the medicinal substance was drawn with the catheter, so that it could not possibly be mixed with the substance in its passage out:

The persons on whom the experiments were tried were women from twenty to thirty years of age, in whom the vaginal mucous membrane was intact. The trials made in Prof. Peck's clinic gave the following results: iodide of potassium, used in a fifteen per cent. solution, was found in the urine two hours after its ap plication, and was found in the same fluid twenty-four hours after the tampons had been removed. Ferrocyanide of potassiom, in a five per cent. solution, was found in the wrine three bouns ufter apheation, and twerty-four hours after removal. Ferricyanide of potassium was used, and could be traced in the urine as ferrocyanide. Salicylic acid, dissolved with sodiam phosphate, was found in urine three hours after application. Bromide of potassium, in a six-per-cent. solution, was found in urine three hours after application.

Iron was tried, in form of lactate and citrate, but was not found in the urine. It could not, however, be found in any quantioy after the medicine had been taken into the stomach. Iron is found in the ash of pormal urine, but it never appears to be present in the form of salt in solution. Lithium, in the form of chloride, was used, aud was found in the urine two bours after: its introduction. These experiments prove that medicine can be taken up through the vaginal nucous membrane. This fact may be of use to those engaged in gynzecological practice, and also in cases when it is desirable not to give it by the stomach.-Rundschau.

## Poisoning by Salicylic Acid.

A case of poisoning by salicylic acid has been reported through the Central Medical Times, as having occurred at Przeglad-Tekarski, in Posen. It has also been discussed in the Medical Society of Posen.

In February, 1876, a peasant was seized with acute rheumatism, which manifested itself in the left knee and ankle joints. The physician, in order to lessen the severe pain, gave him a hyporlermic injection of one-sixth of a grain of morphia, and ordered for him six powders of salicylic acid,-one to be given every hour,-each powder containing about 13 grs . of the acid. Immediately after the first pow-
der, the patient began to perspire profusely, and continued constantly to increase perspiring. The patient's strength diminished so rapidly that his wife hesitated to give the fourth powder. The patient insisted on taking it, however, and immediately afterwards was seized with headache and vomiting, which continued during the whole night. He then became unconscious and groaned loudly. This state of unconsciousness only left him fur a moment, when he turned to the doctor crying, "My head." All mouns ised for his resnscitation were useless, and the patient died forty hours after he had taken the first powder. No postmortem was made. It is not at all possible that this was a case of inflammation of the brain in connection with the rheumatism. All the symptoms indicated poisoning. By later investigations it was found that che salicylic acid used was old, and had undergone chemipal change. This was evidenced even by the taste and smell. Stricker advises that the salicylic acid should always be examined as to its purity, and that the crystalline form alone should be used. If this rule had been followed in the above case, it is more than probable that it would have terminated favourably.-Tiundschau

## Treatment of Chronic Psoriasis.

Dr. Castells calculates that he has obtained forty-five cures of chronic external psoriasis by the following treatment.-He directs the patient to take a bath-with the view of causing the scales to drop off,-or of placing them in such a condition that they may bo readily removed by the nails alone: once the skin is free, he touches all the red spots which have been covered by the scales with acetic acid; this quickly produces a marked sensation of heat, which only lasts about half-an-hour. Sometimes a siugle application suffices to obtain a cure; but at others it is necessary to make five, six, or seven, allowing at least twenty-four hours to elapse between each application, since by neglecting to do so we run the risk of producing a severe inflamnation. In the larger number of the cures related by Dr. Castells, other remedies had been employed without any benencial result.-Revista Beunos Ayres.

## From Lyon Medical.

## Indications for Opium and for Digitalis

 in Asystolism in Variocs Diseases of the Heart.Two patients in M. Gubler's ward presented, -the one, a good example of the efficacy of opium in asystolism in certain diseases of the heart, especially when the lesion is situated in the aortic oritive; and the other a specimen of the cases in which opium would rather be pernicious, whilst the preparations of digitalis lave been found to answer very well. (We omit the narration of the cases, being merely typical ex-amples-the one of double aortic affection, the other mitral regurgitant.) The conclusion deduced is: "Thus opium would rather be pernicious in mitral affections of the heart, whilst it is often useful in clisease of the aortic orifice. Dr. Huchard, who was the first to publish these facts in the Journal de Therapeutique, has in vented a rather ingenious theory to explain them. According to him, opium produces congestion of the nervous centres, and digitalis, on the contrary, produces a local anæmia of them. But asystolism may occar in two opposite ways: Either from defects of nervous incitation of the preumogastrics, the result of an insufficient supply of the nutritive and exciting fluid to the encephalon, or, on the contrary, from what the ancients would have called oppressio virium. In aortic lesion, whether consisting in stenosis, or in iasufficiency, the arterial circulation becomes enfeebled, and the various organs, at the same time, receive less red blood: this then is the case for the employment of opium, which increases the supply of blood to the brain."

In mitral lesions, on the other hand, it is the return of venous blood which is interfered with ; the viscera, and notably the encephalon, are full of it. Digitalis ought to succeed,Gazette des IIospitaux.

In the Revue de Therapeutique Medico-Chirurgicale mention is made of a death having occurred from attempts to dilate a narrowed os uteri by means of sponge tents. Peritoneal effusion, and an abscess containing an ounce and a-half of pus beside the neck of the uterus, were found post-mortem.

## Theatment of Pruritus Vulvee.

Dr. Castellir has employed with success in this very troublesome affection, whether the woman be pregnant or not, the following treat-ment.-

1st. Tepid lotions of an infusion of mallows.
2nd. The application, three or four times a day, of an ointment composed of

Calomel. . . . . . . . . . . . . . . 1 to 2 drachms.
Camphor . . .............. 1 scruple.
Starch, in an impalpable
powder . . . . . . . . . . . $\frac{1}{2}$ darachm.
Sweet Lard. . . . . . . . . . . . . . . . 1 ounce.
Sometimes he adds 10 or 12 drops of laud-anum.-Revista de Ciencias Medicas.

## Antiastimatical Cigarettes.

| Belladonna Leaves. | 5 grammes. |
| :---: | :---: |
| Stramonium " | 5 " |
| Digitalis | 5 |
| Sage | 5 |
| Tincture of Benzoin | 40 |
| Nitrate of Potassium | 75 |
| Water | 1000 |

A decoction is made of all the leaves. Filter and add the tincture of benzoin and nitrate of protassinm. Into this liquid separately are immersed sheets of blotting paper. At the end of twenty-four homs these shects are dried and cut into stuares about four by three, which are rolled into cigaretles. $-N$. $G$., in $L^{\prime}$ Union Medicale.

## Examination of Urine fon Bile.

by ottomar rosenbach, m.d.
On account of the uncertainty and the short duration of the reaction introduced by Gmelin's as a test for bile, the author has introduced a new process, which is exceedingly useful for demonstration and is altogether a most satisfactory test. The urine containing bile is first filtered through clean white filtering paper, the latter will remain coloured intensely brown. The filtering paper is then taken and a drop of concentrated slightly fuming nitric acid is applied to its inner surface. The part touched by the acid is first yellow, then yellowish-red with. a border of violet, then on the extreme periphery an intensely blue ring shows itself, finally the whole surface becomes emerald green.

The test ought to be made before the filtering paper becomes quite dry, as the colours will be exlibited more intensely.

The different colours as described remain sometimes for hours, so that they can be readily demonstrated to a class. The ordinary coluring matter of the urine will give no such reaction as that described.

## From Union Medicale du, Nord-Est.

Subcutaneous Injection of Defibrinated Blood-Cure.
by di. schmelicz de sciilestadt.
This observation clinically demonstratys that Karst (of Kreusbach) was $n$ © deceived in prophesying, from his experiments on rabbits, that subcutaneous injectious of blood would (one day) be made in cases of profound anæmia in man. Schmeltz operated upon a man who had arrived at a state of extreme weakness, with leetic fever and alarming thoracic symptoms. He introduced beneath the skin forty grammes of defibrinated human blood, divided imo eight iujections of five grammes each. The blond-swellings were absorbed at the end of two days. The patient recovered strength with considerable rapidity. This operation is certainly harmless, and it is probable that it will be able to render essential services; truc, it is not known what quantity of hemoglobuline is absorbed, and what quantity remains in the tissues at the point of injuction. Later experiments will doubtless show this.-Gaz. Med. de Strasbourg.

## From Gazette Medicale de Strasbourg.

The same author (Dr. Schmeltz) records in the Gaz. Metl. de Strasboury, for June, a case of pelvic peritonitis, followed by obstinate vomiting and collapse, cured by subcutan+otis injec tions of sulphuric ether. After descriling the case up to the occurrence of collapse he gors on to say, "In spite of the means usually $t$ mployed in such caser, we were totally unable to set up, reaction ; this condition lasted the whole of the following night. The next moruing all consciousness was lost, and death seemed imminent. I theu made a first hypodermic injection of fifteen drops of sulphuric ether, according to the
directions of M. Verneuil. The prick was not felt, and yet in half a minute after the patient brgan to stir and to utter a faint cry. An hour alterwarrls another injection also of fifteen drops was given, followed in abont a minute by another and a little stronger cry. Towards evening our moribund patient revived." The case subsequently did uninterruptedly well.

Apropos of this case, Dr. Schmelta observes: "I brlieve that injections of ether are harmless; in fact an Englishman, Dr. Macan, has lately injected eight grammes of ii at ounce, and shortly after four grammes more (acetic ether), a thing which ? would be altogether inclined to do in urgent cases, such as after post-purtum hæmorrhages."

At the Societe de Medecine de Straslourg the following remarks were made upon the two foregoing cases :
"Prof. Boeckel says he regards the use of hypodernic injections of d fibrinated blood as rational in cases in which transfusion appears to be indicated. It is known, in fact, that blood globales injected directly into the circulatory current are there for the most part rapidly destroyed and eliminated from the system. It is not then to this essential part of the blood exclusively that we must refer che results obtained by transfusion, and we may admit tinat the elements of which the sermm is com-posed-elements eminently fitted for alsorption -play some part in the useful effects which have heen observed in these casps.
"As for hypodermic injections of ether, he has used them for some time, without having always obtained very marked r sults from them ; only, instead of sulphuric ether, he employs nitric ether, which, on account of its slighter volatility, is more convenient to handle. M. Herrenschmidt has recourse to subcutaneous injections of Hoffman's Anodyne (in doses of one-half to one gramme each) in severe collapses, when the administration of stimulant medicines is no longer possible, or is useless. These injections are usually followed by a certain return of the natural powers, but these effects have always been very transient."

## THE CANADIAN


A Monthly Journal of British and Foreign Medical Science, Criticism, and Nowe.

To Correspondents.-- We shall be glad to receive from our frients caterywhire, current mètical newis of getural interest. Sciretaries of County or Territorial medical assaciations witli oblise by sending their addresses to the corresponding editor.

TORONTO, SEPTEMBER, 1877.

## CANADA MEDICAL ASSOCTATTON.

NEW DUILDING OF THE WIMDSOR HOTEL, Wrdsesday, 12th of September, it a.m.
After the President's Address tho following Papers will be read :-Crime and Insanity, by Dr. J. Workman, Toronto ; Ovariotomy, by Dr. Roselrugh, Hamilton; Vital Statistics, by Dr. A. B. Larocque, Montreal ; Pernicious Anæmia, by Drs. Oster and Bell, Montreal; Addison's Discase, by Dr. G. Ross, Montreal ; On large doses of acetate of lead in postpartum and other hemorrhages, by Dr. J. Workman, Toronto; Gastrotomy and Ovariotomy, by Dr. E. Rubilliard, Montreal : Embolism of Central Artery of Retina, by Dr. Builler, Montreal ; Excision of Fnee, by Dr. Fenwick, Montreal : Two Cases of Tricuspid Stenosis, by Dr. Howard, Montreal ; (1) Optical Defects, (2) Nasal Polypus, by Dr. R. A. Reeve, Toronto; Cause and Development of Epithelionat of the Eye, by Dr. A. Alt, Toronto; The Various Forms of Wounds and their Appropriate Treatment, by Dr. W. Canniff, Toronto. The Economic Aspects of Public Sanitation, by Dr. Playter, Toronto. Reports will be read by the Chairmen of the following Committees: Surgery, Dr. Richardsou, Toronto; Obstetrics, Dr: Ross, Toronto; Medicine, Dr. Ross, Montreal ; Medical Literature, Dr. Howard, Montreal; Climatology, Dr. Marsden, Quebec: Therapentics, New Remedies, ctc., Dr. Fulton, Toronto ; Necrology, Dr. Osler, Montreal.

Gentlemen intending to read Papers will oblige by at once notifying the General Secretary, mentioning the titles thereof, in order that they may be added to this list.
A. H. DAVID, M.D., ED.,

Gen. Sec., Canada Medical Association.
" 0 ! would some power the giftie gic us, To see ourselves as others see us."
Our contemporary has an article in his last issue entitled "Putting on the Cap," which is about the richest thing in journalism we have ever met with, and we feel sorely tempted to place the whole thing before our readers that they may see how the cap does fit.

It appeass that our hanter in reference to "boy professors" sent the prole so deep that our "cotem." responds to the touch, loses his temper, and very unadvisedly acknowledges the whole corn, and then in the flury of excitement makes himself ridiculous by trying to put his capo on our head.

It is very evident to all who are not wilfully blind, that while the cap fits our cotem. to a T , the shoe pinches him rather severely.

- Deatil of Dr. Dewar.-We regret to have to record the death of Dr. Dewar of Port Hope, who has long been known as a prominent and lard-working member of the Ontario Medical Council. As a practitioner, he occupied a light position in the estimation of both the profession and the problic; and as a member of the Medical Council, he was ever most energetic in trying to, raise the standard of medienl education in Untario. His loss will be serercly felt.

Dialysed Tron.-Wyeth's dialysed iron is a preparation largely used in the States and abroad in cases where iron is indicated. By reference to our advertising columns full information will be obtainel? regarding this very valuable addition to the Materia Medica. Messrs. Perry Davis \& Son and Lawrence, of Montreal, are agents for Canada, and will send a buttle to any physician sending his address.

Victoria Medical Faculity.-We have it on very good authority that negotiations have been going on for some time between the Montreal School of Medicine and Surgery (now affiliated with Victoria College, Cobourg) and the University of Laval, Quebec, with a view of the former becoming the Montreal Medical Faculty of the latter. It is believed that the negotiations will shortly be brought to a satisfactory termination.-Canada Medıcal Record.

American Pharmaceutical Assoctation.The Twenty-Sixth Annual Meeting will be held in Toronto, on September 4th, 5th, 6th and 7th, 1877. Many papers of interest will be read. Messrs. Seabury and Johnson, of New York, Lazell Marsh and Gardiner, McKesson and Robbins, F. A. Reichardt, Powers and Weightman, and other prominent pharmacists from the States will add to the attractions of the meeting by an exhibit, in their special lines, of goods. Mr. H. J. Rose, of Toronto, the Local Secretary, will be happy to give any information to those interested.

We have received a note from Dr. Geikie denying the existence of any antagonism between himself and Dr. Hodder, in reference to his election to the Medical Council. We are sorry if common report has so libelled him, but we gave it as we heard it.

Journalistic. - The Canada Journal of Dental Science has been revived. W. G. Beers, L.D.S., is the editor and proprietor. It is published quarterly at $\$ 1$ per annum, and it is intended to issue it monthly next year if properly supported. We wish it all success.

Canada Medical Association.-Arrangements have been made with the Grand Trunk and Great Western Railroads and the Steamboat lines for return tickets at reduced rates. Members wishing to go to Montreal by boat and return by train will have to pay the full fare.

- W. F. Evans \& Co.-Jewellery, Watches.
-We wish to call attention to the advertisement of W. F. Evans and Co., of 95 and 97 South Clark St., Chicago. Their Romaine Gold wares, both from their price and quality, are sure to command a large sale here and elsewhere. For fuller information see advertisement.
"Two Black Crows."-Two medical journals, each published by amember of a Medical School ; one is claimed to be " the independent organ of the whole profession," the other is said to be "nothing but a School organ." Can our readers tell us which is which?

Mr. Simon is to have a testimonial : it is to take the form of a marble bust, to be presented to the College of Surgeons.

John Wishart, M.B., has been admitted a member of the Royal College of Surgeons, England.

The death of Professor Nathan R. Smith, of Baltimore, is announced. He is well known as the inventor of the Anterior Suspending Splint for fractures of the leg.

The eighth Annual Meeting of the American Association for the Cure of Inebriates will be held at Chicago, Illinois, September 12th, 1877. Important papers will be read and business transacted.

Dr. Bathurst Woodman, one of the staff of the London Hospital, and author of one of the best works on medical jurisprudence, died last month. He was yet but a young man.

Edmund St. G. Baldwin has been admitted a Licentiate of the Royal College of Surgeons, Edinburgh.

## BOOK NOTICES.

Transactions of the Eleventh Session of the Medical Association of the State of Missouri, 1877.

Analysis of Seven Hundred and Seventy-four Cases of Skin Diseases, treated at the Demilt Dispensary in 1876, with Cases and Remarks on Treatment. By L. Duncan Bulkley, A.M., M.D.

University of Bishop's College Seventh Annual Announcement of the Faculty of Medicine, Montreal; Session, 1877-78.

Case of Aneurism of the Hepatic Artery, with Multiple Abscess of the Liver. By Georae Ross, A.M., M.D., and William Osler, M.D., L.R.C.P., London. Read before the MedicoChirurgical Society of Montreal.

A New Method for the Quantitative Deiermination of Sugar in the Blood. By F. W. Pavy, M.D., F.R.S.

On the Physiology of Sugar in Relation to the Blood. By F. W. Pavy, M.D., F.R.S. Communicated to the Royal Society.

A Simple Mode of Cleansing the Nasal and Pharyngo-Nasal Passages. By Thomas F. Rumbold, M.D., St. Louis, U.S.

Removal of Hardened Secretions from the Nasal Passages. By Thos. F. Rumbold, M.D., St. Louis, U.S.

Fourth Annual Report of the Managers of the State Inebriate Asylum, Binghampton, New York, 1876.

## 为itths, "Atarriages, and Dleaths.


#### Abstract

On the 14th inst., at the residence of the bride's brother, by the Rev. E. H. Dewart, assisted by the Rev. J. C. Gourley, of Mount Vernon, Indiana, R. S. Moore, M.D., of Mount Vernon, Indiana, to Bessie H., youngest and only surviving daughter of the late Richarã Williams, Esq., of this city. On the 3lst inst., at St. Mark's church, Niagara, by the Very Reverend Archdeacon McMurray, Watts S. Lansing, son of General Lansing, to Agnes Maud, daughter of T. H. Watt, M.D., all of Niagara. In this city, on the 3rd inst., John Hostetter, M.D., M.R.C.S., England, aged 44 years and 6 months.


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One elegant Chased Miniature Locket for above.
One set Cameo Medallion Pin and Ear Drops.
Une pair (2) heavy Chased Band Bracelets.
One Gent's Solitaire Diamond Stud.
One Gent's Cluster Diamond Pin.
One pair Amethyst or Onyx Sleeve Buttons.
One set (3) Studs to match the above.
One elegant heavy set Cameo Seal Ring.
One Massive Band or Wedding Ring.
One new "patent" Collar Button.
One Ladies' Chemise Button.
One Amethyst or Topaz Ring, (extra finish).

One Ladies' Neck Chain and Charm.
One Ladies' Heavy Guard Chain for Watch.
One set Pin and Ear Rings, Amethyst.
One extra fine Miniature Locket.
One Cameo Seal Ring.
One very heavy Wedding or Engagement Ring.
One Gent's heavy Watch Chain with Charm.
One pair Pearl Inlaid Sleeve Buttons.
One Lake George Cluster Pin.
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## THE ANATOMIST.



One of the most remarkable

## PICTURES

exhibited at the Centennial, in Philadelphia, was

## "The Anatomist,"

By Prof. G. MAX.

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The Anatomist is seated bef.se a table laden with crania, books and instruments ; in front of him is his subject, stretched on a trestle-board, covered with a sheet. He has just drawn this from the face, which he is thoughtfully contemplating. It is that of a woman, young and fair. A wealth of golden hair lies in disorder around the pallid features. It is a masterly delineation, full of noble thought. The desire to obtain copies was so general that

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