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# The Cinada Lancet: 

 A MONTHLY JOU゙RNAL OFJEDICAL ANI SURGICAL SCIENCE. ว. \IL. TUKU\IU, NUVEMBL.N, 1S74. No. 3.

## ointigual equmburiatious.

ADURESS UN MHDWIFERY.

Hi E. H. TRENHOLME, M.D.,
tofeor of Midwifery, University of Bihop's College; 'ayitian to the Wumen', Husphal, Montreal; Attendmg lhy sician to Montreal nispensarj, etc.
 (iation.)

The subject of the Uterine Decidua that I have antured to bring before you on the present occaon, is one that has uccupied but little attention atil within the last two or three years.
Ifeel some confidence and pleasure in this underuling inasmuch as I had the honor of giving to ternion the first paper upon the uterine deduy i.....egard to some of the phenomena met aith at the bed-side of the lying-in-woman. Howrier, it is not upon the plea of novelty that I ask Fur favorable consideration, but rather trust to sure your approval by presenting sound theories, ad eitablished facts, that will tend towards greater acees in the practice of midwifery.
The external envelope of the foetus, the only one applied by the mother, is the altered mucous memmene of the uterine cavity. This membrane is indular ; but without entering upon the details of i physiological anatomy, it is found to contain, sording to the late researches of Dr. G. Leopold, rich supply of lymphatic glands.
Ir $\ddagger$ well to bear in mind that the decidua is tia. .ed of the mucous membrane of the cavity of witins alone, and that at labor it is cast off, beJserered from the mucous membrane of the neck 'ich remains in situ. As to the change occurring arious to detachment, at menstruation and during station, Kundrat and Englemann have stated it "if we examine the process of menstruation, ? will find that the cellular elements surrounding
the tubular glands undergo ra pid proliferation, es. pecially those layers which are nearest to the carity of the uterus, while the glands themselves participate in this activity, becoming thereby larger, and throm into wavy folds, in order to accommodate themselves to this increasedlength. If there is no necessity for further development, a process of fatty degentration conamences in the most superficial layer, where the growth was most rajid, inmading the interglandular tiosue, the epthehum of the glands and the blood vessel-which may possibly be raused by the fact that tha is eatreme activity of growth may have cut oft", by the compression of the bloodvessels, the source of nutrition. The walls of the capillaries now rlipture, and the menstrual hemorrange is established, while the superficial layer of the mucous membrane is gradually cast off with the discharge.

But if fecundation has occurred, this retrograde process does not take place. but, on the contrary, excited by the stimulus of the growing o vum, the inner two-rhirds of the mucous me mbrane now participate in the process, manyof the cells in the interglandular substance become larger, and send out prolongations, while their nucleiundergo repeated division.

The orifices of the glands are separated from each other, while their ca libre is narrowed by the advancing growth. The mucous m embrane gradually loses its peculiarities of structure, and finally appears a transparent homoge neous membrane at term. The ovular and uterinedecid ua coalesce after the fifteenth week. Atbirth it has beenobserved that the uterine decidua hangs in shreds upon the ovular decidua. Virchow notes a case where the membranes after birth "were found to contain not only hypertrop hid decidual elements,bu talsomuscularfi brecells; and he further remarks, the case, in this respect, remains unique." I have no fault to find with Virchow's facts as to the actual presence of muscular fibrecells attached to the decidua, inasmuch as I have time and again recognized the same condition undei the microscope, and if that illustrious pathologist had deigned to read the paper, (I have already men. tioned,) presented to the Obstetrical Society of London, in July, $187^{2}$, he would have fonnd that the case related by him is bynomeans a unique one. The same author would have found that the character of labor that occurred in the case he records is precisely the same ura case noted by my
self, given in illustration of the views then advanced. But to return to the mucous membrane during gestation, it is self-evident that there is a sufficient contact with the muscular surface to preserve its vitality. Also that pathological changes supervene with the pregress of gestation and finally detach it about the end of the ninth month, or $275^{\text {th }}$ day. $A^{+}$this period the changes just mentioned cause the decidua, with its contents, to act as a foreign body, inducing reflex action of the organ, and this ends in expulsion of the foctus and after-birth. Thus we have a satisfactory answer to the question, why labor supervenes at the end of the ninth month.

This view, taught to my class four years ago, is now accepted by several writers on the subject, and will be, ere long, acknowledged by all teachers of midwifery. Dr. Karl Shreeder accepts and enunciates the views advanced by myself as just stated, and says, " that as pregnancy advances a fatty degeneration of the decidua takes place (which reaches its climax at the end of the tenth lunar month,) whereby the organic connection between the ovum and the uterus gradually becomes solved, and the ovum acts as a foreign body and irritates the terminal fibres of the motor nerve of the uterus, the sympathetic ; when this irritation has reached a certain degree, a corresponding reflex action, in the form of a contraction of the uterine muscular fibres, takes place, which contraction is repeated as soon as the requisite sum of irritation is again obtained ; and this rotation continues, each successive contraction being intensified by the separation of the ovum, from the uterine wall, and therefore stronger and more rapid, until the expulsion of the ovum takes place." Abortion, like parturition, must be due to reflex action of the uterus, excited by the pathological condition of its contents. Admitting the correctness of this view we must seek out the causes that endanger the life and development of the embryo, and not unfrequently jeopardize the life of the mother also. These pathological changes are in my opinion chiefly due to a diseased condition of the mucous membrane prior to conception. From this condition of things 25 a starting point, I think we can trace a large amount of uterine disorders, sucl. as hyperplasia of the body and the neck, abrasions and uleerations of the os and cervical canal, with their accompanying phenomena. I am aware that on the other band, it may be argued that many of the conditions of the uterus; as mentioned,
may be regarded as the result rather than the cause of abortion. Both views may be correct, and are alike worthy of careful consideration in deal. ing with abortions and in treating uterine diseases. Apart from pathological conditions of either the uterus or the decidua, we may have the detach. ment or death of that membrane, with its consequent phenomena, as a result of direct violence, mediate or immediate, applied to the part. Such violence may cause rupture of a bloodvessel and effusion of blood; or general damage of the ves. sels resulting in stagnation of the blood supplied to the part, and consequent fibroid or fatty deycro eration. Whatever the cause, when once tai union is destroyed, we have inevitable reflex action induced, which ends in the extrusion of the uterive contents. This result is what we naturally expit in the early stages of gestation, as up to the tenth or twelth week the chorion and decidua are more or less intimately united and therefore genernls expelled together,

At a later period the villi of the chorion atrophy except at the part involved in the formation of ta placenta. The connection between the decida and chorion is feeble, and we may expect to ammios (in some cases at least) to escape with is contents, without necessaray carrying the decidus with it. So far as I know there is no reason wiy the amnios should not separate from the decidur as well as the decidua itself from the muscular 54 face of the uterus. A case of this kind is recond. ed in the British Fournal of Obstetrics, (Americi supplement, 1874, as having occurred in Philad!. phia, where "the decidua and placenta were is behind afier the escape of the ovum and its dee membrane." Whether such an event is comac: or not is a point to be settled by further objanti tion and research. It may be that the uterine uf epichorial decidua in some cases are separated $t_{i}$ fluid, the latter escapes with the ovum, while t: former remains in situ. In practice the days: arises from the retention of the after-birth in tix cases where strong vascular connection exists, 4 patent crifices of parts that have been detac: permitting alarming hemorrage. In some cis: of retained decidua and placenta, their union ris. ine uterus is so perfect that they are preserved is decomposition and retained for weeks and mors These exceptional cases, however, are not to ber guide in treating them, our duty is to entirely
cuate the uterine contents, as anything short of attuining this result leaves our patient exposed to danger. With risard to pecmature delivery, it is clear that the ordinary pathological changes that result in setting up uterine contraction at the end of the ninth month, are in these cases precipitated by some peculiarity of constitution, or diseased condition of the uterus or decidua. One prominent feature of these cases strongly favors this view, viz., that the safety of the mother and child also, is greater, just in proportion to the length of fine that intervenes between its occurrence and the normal period of gestation. This lessened danger is due to the comparatively advanced changes (already mentioned) having taken place, whereby lesser violence, than in the early stages, is exerted upon the decidua to effect its separation and expulsion. In both classes of cases, however, the difficulty of detaching the after-birth should lead us to delay as much as possible, the dilatation of the os, in order that the work of separation may be more perfectly accomplished by the uterine contractions. This view of such cases would also teach us, to aid by manipulation over the lutrus, the final uterine spasm which completes the expulsion of the footus or ovum. In ordinary Lhbor, which will be referred to hereafter, this course rillalso be of much service in bringing it to a satVixtory close.
With regard to prolonged gestation we have a situple and satisfactory explanation, when we once recognize the separation of the decidua as the exiting cause of labor. In these cases there is simpra a delayed maturation or fatty degeneration of the decidua. Among the lower mammalia the period of gestation varies very much within the bounds of perfect health, and there is no difficulty in acwanting for such cases upon the hypothesis just adranced.
The same theory that accounts for prolonged siblation, also accounts for its occurrence within a nomal period. Perhaps temperament has someHing io do in hastening or retarding the ordinary pathological changes.
Important and practical as the views expressed is, in both abortion and premature labor, yet it is chiedy as relating to labor at term that they are motinteresting. Not only do we perceive the werations of nature in originating uterine contractions with their consequent results, but we have
also placed before us a sufficient canse for many of the distressing and dangerous phenomena metwith in the lying in chamber.

In the decidual adhesions, we see the cause of those imperfect muscular contractions which I heve spoken of at some length, in the paper already te ferred to, which recently Dr. Athill similarly describes as " strong and quick; they do not gradually culminate in a strong pain and subside again, but they are sharp, quick, and cease almost suddenly; and the intervals between the pains are long in proportion to the length of the pains." Again, "the short inert pains which prognosticate hemorrhage." call for the treatment urged by myself two years ago, viz., rupture of the membranes. This is usually enough, without recourse to otheraids, mecicinal or mechanical, as it suffices to induce regular muscular effort by allowing the ovum to become elongated and the organ space for contzaction. Vhen adhesions are present they inflict lacerations of the muscular tissue at the points of union, and thus cause nerve irritation with rapid reflex action ; and this quickened action expends its force to a greater or lesser degree locally, ere the whole organ has time to participate in one common effort. Hence, there is a lack of expulsive power, and painful and retarded labor. Time forbids going into the consideration of much that suggests itself in connection with this subject; but there is one point I wish to bring before you. When th., adhesions exist-as they most generally do-at the lower third of the cavity or around the internal os, we have a condition of things that is an effectual bar to powerful uterine effort, as well as to any progress towards expulsion. Even if the spasms are regular and strong, they must fail, inasmuch as the adhesions act in a mechanical way and effectually prevent dilatation of the os; while at the same time, the pains are expended without effect on account of the mutual antagonism of the contractile forces. Failure must follow, inasmuch as there is the absence of the one essential condition of success, viz., a concentration of the expulsive powers of the organ toward the outlet. Such cases are always troublesome to the accoucheur, and tedions and distressing to the patient. There can be but little doubtmany hoursand daysof sorrow could be averted by a knowledge of the conditions present and, a timely proffer of the required aid. Fortunately the difficulty in most instances, is
within reach, and the finger of the attendant is able to effect the desired detachment of the membrane from the uterine surface. When once this is done the liquor amnii rushes downward and the bag of waters after filling the os, is driven forward like a wedge by the concentrated, and now powerfully expulsive, uterine effort, because such effort is directed toward the outlet.

The rapidity with which labor is accomplished after the correction of such irregularities is truly marvelous, and most satisfactory to both accoucheur and patient.

I am aware that in some cases the attachment of the decidua is beyond the reach of the finger. When this is the case, two methods of treatment are open to us. First, we can use the uterine sound-as a digital prolongation-and separate the adherent surfaces to almost any extent ; or second, we can resort to rupture of the membranes, and allow the fotus to glide over the decidua, inasmuch as the latter fails to glide over the uterine surface as it does in normal labor.
Much more might be said, but I will draw your attention to but one point more, viz., the great advantage, with regard to both safety and time, that follows the rapid and complete delivery of the after-birth. These results, so much to be desiderated, can generally be accomplished by aiding the last labor-pain, that expels the child, by pressing quite firmly over the uterus with the left hand at the precise moment tha: the organ is contracting. By this means our object is thoroughly accomplished. If it fails us for the moment, we should wait a little, and then repeat our effort with the next uterine contraction, which, when gentiy, and skillfully applied, seldom fails to be crowned with success. When it is desired to aid the uterus in expelling the after-birth, be careful not to twist or make strong traction upon the membranes; if you do, the result will be their laceration and partial removal. Besides this, frequently a sac of blood is left behind, which must be a source of great danger. I have no doubt that many cases of puerperal peritonitis and metritis are induced by such means; also the presence of such a foreign body will favor hemorrhage by dilating the organ. Even the retention of the adherent membranes alone are not free from danger, as all will readily admit.

In conclusion, I would urge upon my fellow
practitioners to cultivate an acquaintance with the diseases of women. No subject presents more inviting interest, nor offers a fairer and fresher field for exploration and scientific enjoyment.

## THE BEEF THAA FALLACY.

by a. mackinnon, m.d., stkatford, oni.
Many years ago, that greatest of chemists, Baron Liebig proposed extract of meat as an agent of value, in certain cases of extreme nervous and physical exhaustion. This proposition at once sent the medical world agos, and ever sines it has been the custom, with practitioners generally, to prescribe extract of beef in all cases requiring a supporting treatment, and in not a few requiring no such treatment, in the full belief that the article in question was the most concentrated, and at the same time the most easily appropriated and life-giving aliment that the patient could have ad ministered to him. The belief is general thatextractof beef is the very quintessence of beef, and as a malta of course, infinitely more nutritious than beef itself Such being the opinions entertained, we need feel no surprise at the wide-spread custom of feeding the sick with beef tea or extract of beef, to the exclusion, to a large extent, of other articles of diet, including beef itself. That this practice is almost universal I need not stop here to show, since the fact must be known to the most casul obsiv ver. Physicians generally are in the constant habit of ordering extract of beef as food, in all cosditions, from enfeebled health to the most acute disease. If the patient is weak he is at onct ordered beef tea; and if he is still sinking he is ordered a still larger portion of beef tea. Such is the practice as we daily witness it, and such is the practice as seen in all civilized countries, and such shall be the practice until many thousard lives more are added to those already sacrificed al the shrine of this stupenaous delusion.
What would be thought of the physician whe when called to the bedside, ordered coffee for diet, and more coffee as the patient's strengut failed. Of course he would be declared mall: but, as I shall endeavor to show, he is only: trifle rıore so, than the man whose reliance is of extract of beef.

To the intelligent çomprehension of the question it will be necessary to briefly inquire into three points:-
ist. What tissue or tissues of the human fabric more immediately concern the performance of the functions and the continuance of life?
2nd. What kind of food is best adapted to the production and support of such tissue?
grd. Does extract of beef contain such food in due, or any proportion?
As to the first question, all science teaches us that fibrous tissue largely predominates in the higher order of animals more especially in man. It is contained in bones, tendons and ligaments; neries and blood vessels are mainly composed of it; the connecting and various lining membranes are almost purely fibrous; and lastly, the great muscular system is made up of bundles of fibres, including the heart itself, which is to the animal what the main-spring is to the watch. To enlarge here would sound too much like demonstrating a self-evident proposition. It is only necessary to add, that every one must be impressed with the important part which fibrous tissue plays in the animal economy, and the paramount necessity of promoting its development and supplying its waste.
The second question is equally easy of solution, since science happily confirms what the experience of agespoints out as the most nutritious kind of aliment. In this department of investigation, chemistry has opencd up a wide field, the importance of which, to the intelligent physician, is daily becoming more and more apparent. No argument need here be advanced to show that it is from nitrogenous substances that muscle and the other fibrous tissues are developed, and the strength of the body maintained, since both observation and science have long ago placed these facts beyond the domain of dispute. Non-nitrogenous substances, therefore, do not directly impart streng th, or vitality to the system, although useful enough as auxiliaries. Itisalso admitted on all hands that next to milk and rare eggs, or eggs heated to a point short of coagulation of the albumen, the flesh of animals is the most easily assimilated of all food, being 2lieady elaborated and requiring but little change before entering upon its final destination. If to this we add concentration of nutritive power, we can readily see why meat of all kinds, and beef in particular, should be esteemed invaluatle as an
article of food. It is on these theories that the extensive use of beef tea and extract of beef is based.
I now come to the consideration of the question, whether extract of beef contains the azotized or nitrogenous elements of beef. According to the foregoing conclusions-and I have taken nothing for granted, unless it can be shown to be nitrogenous in its ultimate elements, it cannot nourish the system nor impart direct strength to it . By this test, extract of meat must stand or fall. There is not one law for extract of meat, and another law for all other substances. The law is the same in all cases and scrupulously impartial. At the beginning I stated that Baron Liebig was the first to recommend the use of extract of beef. It would appear, however, that he never recommended its abuse, for we find that a short time before his death he publicly repudiated ever having stated, that extract of heef was food capable of sustaining life. A synopsis of the paper in which the veteran chemist vindicated his opinions, is given by the London Medical Rccord of April 16th, 1873, and affords highly important evidence on a question on which he was, perhaps, better qualified to speak than any one else.

He wishes it to be distinctly understood that " he never asserted that beef tea and extract of meat contained substances necessary for the formation of albumen in the blood or muscular tissu::" and "that by the addition of extract of meas to our food, we neither economize carbon for the maintenance of the temperature, nor nitro :en for the sustenance of the organs of our body; and that therefore it cannot be called 'food in the ordinary sense,' but we thereby increase the wrking sapabilities of the body and its capacity to resist exterior injurious influences, i. e. to :maintain health under unfavorable circumstance:. The editor of the Recori summarises the re: aining contents of 'che paper as follows: "Those constituents of meat which are soluble in boiling water take no part in the formation and renovation of the muscular tissues, but by their effect on the nerves they exercise a most decided influence on the muscular work, wherein meat differs from all other animal and vegetable food. He (Liebig) therefore places extract of meat, (essence) and with it tea and coffee, under the head of 'nervous food,' in contradistinction to articles of 'common food,' which serve for the preservation of the temperature and the restoration of the machine. Beef tea and ex-
tract of meat are of themselves incapable of supporting nutrition or maintaining life. Liebig, however, with justice, condemns the conclusions of those who, from comparative experiments on the nutritive value of fresh meat and meat-extract, taken per se, argue that the latter is not only useless fcr purposes of nutrition, but positively injurious. It should be clearly understood that beef tea and extract of meat are only to be regarded in the light of auxiliaries to food, rather than independent articles of nutriment."
From this it appears "that by the addition of extract of meat to our food we neither economize carbon for the maintenance of the temperature nor nitrogen for the sustenance of the organs of our body," that it cannot be called "food in the ordinary sense," and hence is placed side by side with "tea and coffee," under the general name of "nervous food." This is pretty hard on those who believe that extract of beef is, beef "simmered down" or the quintessence of beef, and who place the utmost confidence in its nutritive and lifesustaining properties.
Science and common sense are here in perfect accord. No one ever dreams that the juices contain all, or any considerable part of the nutriment of fruit. No one imagines that the brown liquid poured off his dinner potatoes carries with it the nutritious elemerts of that valuable vegetable, or that he would derive any benefit from using potatoe tea. No one seems to think that his apple dumpling has deteriorated in the boiling, or that apple dumpling tea contains all the nutriment that apple dampling is capable of imparting. "Those constituents of meat" which are soluble in boiling water take no part in the renovation and formation of muscular tissue." This quotation from Liebig's paper, contains a lesson worth remembering, since it is as applicable to most other articles of food as it is to meat.
From this it is evident the less artificial our food the better, whether in health or disease. Of late years it has been too much the fashion to run after artificial preparations such as extract of meat, con. centrated milk, infant's food, chemical food and the like. I have no hesitation in saying that such preparations are not only wholly unnecessary, but absolutely injurious under the ordinary circumstances of life. I grant some of them may be of use for purposes of travel, or under other conditions
placing the simpler and more natural articles of food beyond reach. To this I would make excep. tion in favor of extract of meat, for although it is not food in the ordinary sense, yet it may be given with advantage in cases of extreme nervous and physical exhaustion.
A few years ago every invalid was recommended to transform himself into a carnivorous animal. Copious instructions were given for the preparation of the meat, and confident promises of restoration to health were freely made. Civilized people, however, have always had an aversion to ras meat, and the practice, I believe, has not become very general. Raw meat is prepared for use by first beating it into a pulp. Lately I have been in the habit of directing this pulp to be cooked, simply by adding boiling water to it and agitating the whole briskly. It may be made of any consistency to suit the individual taste, and savored according to the same rule. It may be allowedto infuse a few minutes, as thereby it is rendered more palatable to most persons. In cases of verr feeble digestive power, a few drops of muratic acid well diluted, taken immediately after each meal, will greatly aid its digestion. This prepara. tion is well suited to all cases where no hunger is experienced and mastication is irksome, or where food is loathed and the digestive powers are feelle -in fact in all such cases, as it has been the custom of late years to administer the imaginary food called beef tea or extract of meat. I find that patients prefer the beef pulp, prepared as I direct, to the extract, while in point of nutrition no com. parison can be drawn between them. I would only add, that it is quite possible to place too much reliance on beef and brandy in cases of extreme nervous and physical exhaustion. New milk and fresh raw eggs are equally important, and thet can be no reasonable doubt, that a due admixture of these and other articles, judiciously adminis tered, is the surest and speediest method of restoring to nature her exhausted strength.

The Medical Times, Philadelphia, says:-Dir Buchanan, of bogus-diploma notoriety, was arretest Wednesday, September 16 , whilst on his way to the Eclectic College, on the charge of havisy caused the death of a Mrs. Isaac W. Vandegitit by an improper surgical operation.

## PARALYSIS FROM LEAD POISONING.

BY G. A. WILLIAMS, M.D., BAY CITY, MICH.

A man $\mathfrak{x t}$. 35, painter by trade, suffered from lead colic several times, and after one of these attacks was left with paralysis of the anterior part of the thigh. He applied for treatment to a surgical institution in Indianopolis, where he was put under the care of juniors, who used cold water as an application, and other remedies, the nature of which I did not learn. The patient gradually grew morse, and in a short time rebelled against the treatment and left the institution. When I saw him there was inability to stand upon the leg, extend it, or flex the thigh upon the abdomen, and the thigh was very much atrophied, being about one-half the size of the other. There was loss of motion in all the muscles supplied by the anterior crual nerve. In attempting to raise the leg it tumed outwards by the action of the biceps, and in crossing the leg over the other, the patient required to lift it with his hands. He had dyspepsia, seminal reakness, \&c., and was generally andemic. I was rther indifferent about taking the case, being of about four month's standing, and as some of our best authorities give an unfavourable prognosis in such cases, I thought there was very little chance for reaping laurels. Nevertheless, I concluded to take charge of the patient, and after explaining to him the great necessity of patience and perseverance, he gave me "a consideration," and I commenced the treatment. I treated him on general principles for the seminal weakness, \&c., and gave him iodide polassium until I supposed the system was free from lead. The iodide of lead could be detected in the urine by boiling. On cooling the yellow spangles of iodide of lead could be seen deposited on the bottom of the vessel. I afterwards gave him nux vomica, and applied electricity ; ordered fiction from below upwards, and a sponge bath erery day. I was also on the "qui vive" for malaria, and as he frequently had symptoms of it, the taking of quinine was laid down as part of his "religion."
This treatment was continued for about two mosths without any perceptible improvement, when the hitherto torpid muscles began to respond to (tie ection of electricity, the thigh began to increase 5size, and instead of rasing his leg with his hands ne ras able to cross it over the other in the natural
way. The treatment was continued for about two months longer, when the patient was discharged cured, with the exception of a slight weakness of the knee.

In the use of electricity I have found a little care necessary in order to derive the full benefit of the treatment. Some physicians recommend changing the current from the direct to the inverse, but I think I have succeeded best by using the direct current, that is, passing the impression in the natural course of the nerve. In the nervous system we know that ordinary impressions pass in two different ways only in the different sets of nerves, but in using electricity the impression passes in both directions in both sets of nerves, for in taking hold of the poles and changing them from one hand to the other we feel the same impression in both hands. In acting upon the anterior crural we place the foot upon the positive pole in a basin of water, and apply the negative to the periphery of the nerve; in this way the impression passes up both sets of nerves, and down the anterior crural to the negative pole. If we apply the poles vice versa, the impression traverses the anterior crural in the inverse direction, and thus it escapes the impression we wish to make upon it. The principal feature in this case is the evidence of theimportance of patience and perseverance.

I have discovered a new mixture since I came here, which, Ibelieve, is "indigenous" to the Saginaw alley. It is called the Mist. Infantum. It consists of 3 grs. of tannic acid to every ten grs. of quinine, mixed with syrup of orange. This mode of preparation almost covers the bitter taste of the quinine. It is always retained, and is particularly useful in the treatment of infants with irritability of the stomach.

FRACTURE OF THE SKULL-RECOVERY.

BY N. O. WALKER, M.A., M.D., M.R.C.S., ENG. ; PORT DOVER.

The perusal of your article on "Moral Prophylaxy" has brought to my mind the case of a patient whom I have recently discharged. The ratiocination by which this case was revived in memory it would he tedious to unravel; suffice it to say that the "union of mind and matter," and the old anatomist's location of the exact seat in the base of the brain, whereon the "anima" or "psyche"
bestrode the saddle, to which the reins were attached, to guide the complex vehicle of the human organization,-all floated dimly across my mind, "reminiscences of my student investigations." The brain was always, by early physiologists, and is by present old women, clothed in a panoply of the "immaterial presence."

What others may have from experience learned, I am convinced that the anima, psychi, or immaterial portion of our "complex organization" is equally present in the case of the minutest capillary as in any portion of brain. The brain is only a "receptaculum omniun zirum naturar immaterialis." But I am not about to theorize, (Professor Tyndall does enough of that,) as a country 1 ractitioner has little time to toss polemical balls. We take patients as we find them, learn from their locations, habits, business occupation, ct omnibus rebus, the particular drain on their economy, " material and immaterial," to which they are subject, and from our professional repertory of taught and intuitive (if you like) knowledge, apply in a common sense way, assistance to "violated nature," i. e. vital force diverted from its even channel by disease or injury.

Without further peroration I will curtly give the details of a serious injury to the brain of one Matthews. This patient, a boy, æt. 12, while viewing the gambols of some fiery steeds on a field, himself perched on the fence, was precipitated by the breaking of the top rail, which he bestrode, amid the "stud." He remembers nothing more, than a concourse of horses around him. Some time after (the interval unknown) he was found lying insensible in the field, covered with blood. He was brought home and I was sent for. Accornpanied by my student, R. Tyrrell, I entered the place, and found the patient recovered from insensibility, and vomiting had ceased. After having the head shaved I explored the wound of the scalp with my finger, and found only one of many lacerated wounds, through the scalp on the right side of the cranium, which extended into the plates of the skull. This one $3 / 4$ inch by $1 / 4$ inch, extended through both plates of the skull. I directed my student after me to explore the wound, and observed, aft the withdrawing of his fingers, a quantity : srain matter follow, perhaps 3 j . This wound was located in the parietal bone, $1 / 3$ from the occiput and $1 / 3$ from the top of the cranium. All
other wounds were closed by adhesive plaster, and this kept open. Ordered cold to the head, and prescribed veratrum viride in small doses. Ex. pecting serious results either from primary or secondary effusions, I saw the patient daily for several days. Not onc bad symptom manifostad itscif. Brain matter mixed with blood was poured out for four days ; then brain matter mixed nith sero-purulent matter. There must have discharged under poultices two ounces or more of brain mat. ter. The pulsations of the brain were visible in the contents of the wound for the first seven days; then for a few days visible in the bottom of the wound, and ultimately ceased. The recovery was speedy and complete, not a single bad symplom through the whole process. The local treatment was cold to the scalp and poultices to the wound through the skull ; the constitutional was, a fem grains of calomel and colocynth, followed by small doses of salts each morning for several days. This with veratrum viride constituted the whole tratment except dressing. After the first ten days all medicines were withdrawn. The boy had bets subject to periodical headaches, and these pursutd the even tenor of their way during the healing of the brain. Pupils natural, and little or no pyreris after the third day. Since the wound has healed, the outer plate of the skull for 2 by I inches is depressed around the seat of penetration. The lad is quite well, and suffers (as yet) no efied whatever from the accident. I expect none Should any future developments occur (such ss epilepsy or irritability of mind) I will try to reswis. citate the above, and will then become physiologial $=-=-=-$


## To the Fditor of the Lascet.

SIR,-I wish, through your columns, to at express my opinion in reference to our Taniff of fees. How it may be in other sections I do dod know, but in this district I hear continualy di cry, "Your charges are too exorbitant." As' rule I make up my accounts strictly in accordand with the Tariff adop,ted by the Association, aid in cases where the persons are only in modersis, circumstances, (the majority, for none or feer iif rich here), I throw off from one-foruth to 2 . h , but yet, I am said to be extortioning.

This, I assure you, is very unsatisfactory to me indeed, therefore, if the Council or some one mould devise a scal: uf fees, which would be generally satisfactory, or as I thinik, if our charges were made uniform throughout the Province, and thoroughly published, it would, to a great extent, do away with so much complaining among the people.
It is frequently said to me that Dr. so-and-so only charged me so much (generally about half my charge, after deducting from the Tariff) for perhaps double the quantity of medicine, or for going double the distance. If all were to be guided by the Tariff, it would do a great deal to remedy the fault. For my part, I am heartily tired of hearing such complaints, especially whan I have put my charges down to the lowest rate $:$ if it was only occasionally, I would not mind it, but it is the general complaint. Hoping you can devise a remedy, I am, Sir,

> Yours respectfully,

## J. ADAMS.

Gravenhurst, Sept. irth, 1874.

## To the Elitor of the Canada Leascet.

Str,-In the October number of your journal (puge 50) we notice aform for Tully's Powder which is not in accordance with the orioinal. It may be a good one, but ought not to bear the name. We rete very much favored by having an intimate acquaintance with Dr. Tully, and were much zided in our pharmacy by personal conversation with him, and by preparing his prescriptions. The lollowing is an exact copy of his form for this beatiful powder :-

> B-Morphix Sulph. gr. j.
> Camphore
> Creta.

Glycyrrh. rad. aa $\ddagger$ j.—M.
Each item is to be very fine and all intimately mixed. In this vicinity "Tully's Powder" has largely tuken the place of Dover's Powder. By some it is incorectly called camphorated Dover's Powder.
If you think it worthy or of importance enough toprint the true form, the above will be useful to Procerer may wish to follow the author strictly.
The form given in Tully's Materia Medica vol i, fart 2, page 1260, was giver to his publisher and fifle the above.

> Respectfully,
H. \&. J. Brewer.
H. \& Spingfield, Mass, Oct. 14. 1874.

# sulertal antictcs. 

## CLINIC ON CALCULLTS OF THE BLADDER

BY FROE. D. HAIES AGNEW, M.I., PHIIADELPHIA.

(Reported by D. F. Villard, M.D.)
Gentlemen,-I oring before you a patient who has been complaining for many years of symptoms which are briefly as follows: frequent desire of micturition, straining in performing the act, sudden arrest of the flow, followed after some minutes of expulsive efforts, by a renewal of the stream, pain in the bladder, perineum and end of the penis.

These, as you all know, are distinctively the features presented by a case of stone in the bladder, and yet no one is justified in establishing adiagnosis without a thorough physical exploration of the parts, since stricture, cystitis, enlargement of the prostate, and several other diseases may give rise to a very similar train of symptoms. The steel sound is therefore always to be employed in every case of vesical dis?ase in which the symptoms have been of long continuance. By means of this instrument the presence of a foreign body can be easily detected, unless it is hidden away in some cyst or pouch, formed either by a sacculation of the viscus, or by inflammatory lymph.

The existence of such disguised cases should always be remembered, and a single examination is not sufficient to decide the question as to the nonexistence of a concretion. By varying positions of the patient, however, and by different degrees of distension of the bladder, you may usually detect one if present. I would earnestly warn those of ynu who may be consulted by patients living at a distance, that you do not send them upon their return journey on the same day of the exploration: since cases of "urethral fever," accompanied by chill, flashes of heat, pain, etc., are not uncommon. The best preventive of this unpleasant occurrence will be a full dose of morphia, tugether with rest in a warm bed.

I introduce a large sound into this man's bladder, and as I now attach a sounding-board of deal wood, the click of a hard body will be heard in every portion of the room. We are satisfied that he has a calculus, and in order to discover its size, I withdraw the instrument, introduce a lithotrite, and by grasping the stone in several positions am satisfied that it is not large. Again, to ascertain if there are multiple concretions, I secure this one in the grasp of the lithotrite and then use it in sounding for others. I discover none. From the click which the stone gives to my instrument, and from its surface, I should judge that it was largely composed of uric acid, a fact which can be futther establish. ed by testing his urine, which in such a case should be acid, and throw down a deposit of urates.

Were the urine alkaline, with large phosphatic deposits, we should infer that at least the covering of the concretion consisted of phosphates.
Again, oxalate of lime may be discoyered in the urine, but a mulberry calculus is not often difficult of diagnosis upon contact with $a$ sound. Stones, however are frequently mixed in their composition, the nucleus differing from the covering, or the several salts being deposited in alternating layers. An educated touch will sooin detect the differences in the various forms, almost as soon as struck.
I have so frequently spoken to you of the caust and tuethod of formation of these bodies, as well as their various composition, that I need not again dilate upon these poins. The most important question is as to the method of relief. The two onerative modes of treatment are lithotomy, and lithotrity or lithontripsy. The former you have seen ine frequently perform in this amphitheatre, and know that is my favorite procec. . re ; but tre latter is certainly a valuable operation in a certain number of cases, and it is the plan which I shall pursue in this instance.

In giving lithotrity the preference in the present case I am influenced by the age of the patient (73), by the large and healthy condition of his uretira, by his freedom from renal disease, and by the probable soft nature of the calculus. These are the chief determining points in deciding this queston. His age is such as to render any operative proce. dure somewhat hazardous, but lithoiomy at this time of life is quite liable to be followed by a tatal result, and lithotrity is cercainly prefereble if at all possibie. Of course, it may be followe ${ }^{-1}$ by a low form of cystitis, and is frequently complicated by enlargement of the prostate, but these are conditions the risks of whin h must be undertaken, since this stone, if left to itself, will certainly produce serious consequences.

In. young children the two operations admit of no comparison, lithotomy being almost uniformly successiull, while lithotrity is difficult and langerous, from the small size of the outlet for fragments, and from the irritable condition of the parts. From puberty to the age of sixty, the advocates of lithotrity advise that nearly all stones less thar. one inch in diameter, or falling below one ounce in weight, be crushed, while larger on $\omega$ be removed by the knife. I am still, howcve:, inclined to believe that lithotony would yield as large a per entage of cures in the same class of cases, as is now reported from lithotrity. It must be remembered that the latter is ordinarily performed under the most favorable circumstances. The stones, small in size, are consequently of more recent date, and are correspondingly less liable to be associated with serious disease of bladder or kidneys, one of the most important of all complications, since most likely to cause a fatal result. Lithotomy is performed upon all classes of cases, after the most favorable ones have been
selected for lithotrity ; with old and large calculi, and with numerous coexisting maladies. Is it any wonder, then, that it yields a higher mortality? When we have statistics based upon the comparative merits of the two operations, in precisely similar cases and conditions, then and only then can we arrive at a truthful conclusion. Do not understand me that I am opposed to the operation, for Iam decidedly favorable to it. I am only defending lithotomy from unjust comparisons.

An oxalate calculus does not necessarily preclude the crushing operation, provided it is not larger than a bean, but one of large size will oreak an in. strument. It is liable, also to present very sharp fractured angles. The soft phosphatic form is certainly the most desirable one, although the minute fragments into which it is reduced nay fom nuclei for secondary formations.

When several stones exist the cutting operatio: is preferable. I have spoken of the state of the urinary apparatus as determining the choice of oper. ation With an irritable or strictured urethm, I should decide against lithotrity, unless the former condition could be relieved by the passage of instruments, or the latter dilated to the full extent of the normal tube.

With cystitis, or an irritable bladder, the presence of the sharp-edged fragments is frequently prodictive of fresh inflammatory conditions which seldom arise aiter lithotomy. With diseased kidneys, the urine containing albumen and casts, thelastmentioned operation yields but one exciting cause of ner inflammatory changes, while lithotrity offers severl With sacculated and atonic bladders, the crushing operation is seldum advisable. With enlargedpros tate the difficuly of clearing the bladder of thede. oris following crushing was formerly considered \& unfavorable to the method, but with the recent ad vances in the means uf completely emptying th viscus, I do not see that it offers any obstacle.

In the present case I am leci to lithotrity, fu the reasons which I ha e above named, and fora the fact that the urine only contains a little mucus The condition of the urine should always receity careful examination before any attempt at opera tive procedure.

Having decided upon the operation, preparaty means should be taken to oltund the sensibitititait irritability of the urethra and bladder, by thoo. casional passage of sounds, and $v ;$ rest, alladixy drinks, etc.

In regard to anesthetics, I avoid them in allos. where the effect of the shock wor $ل$ not mone counterbalance the benefit to ... d from intelligert sensations of he patit. $1^{\text {t }}$

I do not inject tha bladder as a rule, med directing the patient to avoid passing his urine an hour preceding the operation. With the Fergusson lithotrite this was a matter of neecisis, lest the mucous nembrane of the bladder becaxt
between the blades, but with Thompson's instrument, in which the female blade is made wider than its fellow, I see but little danger if due care is used. This Thompson's lithotrite, which you here see, is a most excellent instrument; the male blade is easily slid upon its fellow, and the other mechanical arangements are nearly perfect. The blade is made from a solid piece of steel, and not by being bent into position from a straight bar. Any instrument, however should be thoroughly tested by being made to crush large fragments of stones previous to its use, since the breakage of the arm would be an unpleasantoccurrence in the middle of ar operation.
Such an accident would render lithotomy at once necessary.
The best lithotrity position is at the ioot of a hard bed or low table, in such manner that the operator can stand between the knees ot the patient. In cases of enlarged prostate the hips should be considerably elevated, in order that gravity may cause the stone to escape from its hiding place at the base of the bladder.
If you will watch the introduction of this well oiled instrument you will see that it is easily accomplished in the normal urethra, but if the canal was narrowed at the membranous portion it might be quite difficult. Any hindrance at the prostate could be relieved by a finger in the rectum. Once entered, the work of seizing the stone is commenced, a procedure which is sometimes easy, but frequently quite difficult. For myself I prefer only a very moderate distention of the bladder. When the lithotrite comes in contact with the calculus, the blades are opened, and the body is made to flll between them, when it is grasped and fastened. Thompson lays down cettain rules to be observed in this search, which inay be of service when the Sody cannot be easily found, but as a rule you can bebest guided by the point at which the instrument is impinged upon. These groping positions he names "vertical," right and left inclined," "right and left horizontal," "right and left reversed inclinel," and "reversed vertical." A finger in the rectum will sometimes lift a stone from its bed and bring it within the grasp of an instrument, but the dificulties of seizure are not ordinarily very great.
I now rotate the instrument to assure myself that itisfree from the mucous membrane, and then slowy fum the screw uatil tue stone yields. Some adrise the rapid movement, in order to percuss the sone and split it, but I prefer the slower crushing ppocess. The blades being run down together, one of the fragments is seized in the same manner as at Iti, and the breaking process repeated, the lergth oithe sitting being regulated by the amount of pain idi iritation developed. This old man, as you see siffers from u.e pressure of the instrument and from the manipulations, and we will not, therefore, Frolong the prccess beyond breaking the stone and ose or two ol the fragments. preierring to leave the
remaining necessary operations to a subsequent time, rather than to light up an inflammation which might prove most disastrous. The stone crumbles easily, and as I now close and withdraw the blades some minute fragments of a soft uric acid stone are removed, with but littlo blood.

The patient will be at once placed in a warm bed, and suppositories containing two grains of opium and one quarter of a grain of ext. belladona introduced into his rectun. He may drink liquid in full amount, but must not be allowed to rise while passing water, for the irst forty-eight hours, lest some fragment fall forward and become lodged at the neck of the bladder, or in the urethra, and add to the irritation. In the event of such an accident the attempt may be made to return the fragment to the bladder, by means of a catheter, or by full injections, or it may be cuaxed forward by urethral forceps, or a short-bladed lithotome. These failing, and the suffering great, the knife must be used to cut directly down upon the body.

In this case I have broken the stone so finely that the debris will probailly soon begin to pass away, although we shall not permit the man to strain at all, preferring that the fragments become a little "water-worn." In order to pulverize the remaining pieces a second operation may be performed in from three to six days, according to the amount of irritation produced, but I prefer to wait a longer time, unless the patient is in haste for a cure In some cases vesical tenesmus may occur, either from the excitement of a slight hemorrhage, or on account of an excessive irritability. Should this occur the morphia must be increased until all pain is relieved. The diet should consist of milk, eggs, and beef tea.

Should the bladder prove unavie to expel the fragments, either from previous atony or resulting partial paralysis, or from enlarged prostate, it may be thoroughly washed once a day, through a catheter having a large eye upon its concave surface, or by Clover's or Dittel's apparatus. The fragments may also be extracted by suction, a bottle from which the air has been exhausted being attached to a catheter fitted with a stop-cock.

As a rule, however, I prefer that the bladder be left to itself as much as possible.

The number of sittings required to completely crush a stone will depend upon its size and composition. If the concretion is hard the first operation will only divide it, perhaps, into two or three pieces, too large to pass the urethra, but in calculi composed of urates, or phosphates, or both, the debris, and sometimes fragments of considerable size, will speedily begin to appear. In some cases, where the several portions seem to form nuclei for new formations, a dozen operations may scarcely complete a cure. This chance of secondary formations is so formidable a one that the surgeon should never dismiss his patient until he is satisfied that
every portion of the detritus has escaped, a condition which must not be inferred by the mere absence of symptoms, but determined absolutely by soundings, washings of the bladder, or by violent exercise. Behind the danger of the retention of a small fragment, moreover lies the constitutional predisposition to the formation of stone, and patients should always be warned of the possibility of return.
In some cases the symptoms of vesical irritation will be greatly increased by the presence of the many sharp-edged pieces, but in others almost immediate amelioration of the symptoms occurs.

In regard to the fatality of lithotrity the best statistics make the mortality between six and seven per cent., but Sir Henry Thompson asserts that he has never lost a case where the stone was not larger than a small nut, the size at which it should be discovered. In larger stones his results are far more encouraging than those of lithotomy, but, as I have already said, we must remember the different conditions under which the two operations are performed.
(The patient six hours after the operation, was seized with a most intense vesical tenesmus, due to the contraction of an exceedingly irritable bladder upon the fragments, and accompanied by almost total suppression of urine for twenty-four hours. A catheter carefully introduced secured no urine, and but little blood. The violent pains were only arrested by large and repeated doses of morphia administered hyodermically. The supra-pubic region was only moderately tender, and stupes and hot fomentations so alleviated the symptoms, that under the use of diuretics, he was greatly improved in thirty six hours, and in a few days the previous vesical irritation had almost entirely subsided, and he was able to retain his urine for six or eight hours at a time. The fragments continued to pass for several weeks, and at the end of that time the lithotrite was again used, and this time with no subsequent unpleasant symptoms. Since that time all the debris has come away, the pain and difficulty in micturition entirely disappeared, and several careful soundings reveal the fact that no fragments remain behind. He now considers himself cured. The weight of fragments passed was nearly one ounce.-De F. W.) Med. \&u Surg. Reporter Philad.

According to the latest returns there are now in Paris 1720 medical men, 179 officicrs de sante, 734 apothecaries, 453 dentists, 561 midwives, and 528 herbalists.

A high rate of infantile mortality-chiefly of children under one year of age-still prevails in Leeds.

## PATHOLOGY AND TREATMENT OF OVARIAN DISEASES.

ABSTRACT FRUM THE HASTINGS PRIZE ESSAY BY LAWSON TAIT, F.R.C.S.

The remaining affections of the ovary are those which are the result of increased grow:h, usually taking the form of cystic degeneration. More rarely the growth is solid, and may be either fibromyxomatous, or, more commonly, cancer. There are no diseases in the province of surgery where more care is needed in weighing every point in the history, every symptom and sign, for the purpose of establishing an accurate diagnosis, than in those classed under the head of ovarian tumors. It is best to make first of all, a mental list of all the conditions that might exist, and exclude one after another until the alternative is left.

From the history alone, no ovarian tumor can be diagnosticated. The rate of increase gives no guide. The details given by the patient as to the region in which the growth was fist observed are often very misleading. Tumors of one ovary are often stated by the bearers to have originated in the side opposite to that from which they are found to grow. The menstrual histories are to be almost disregarded in making the diagnosis. With some, menorrhagia, with others amenorrhœea, may occurIt is especially important to eliminate pregnancy, particularly the condition of hydramnios, which the author has known to be treated with fatal results, on two occasions, by tapping. The utenis, in the early months of normal pregnancy, is not unfrequently displaced to one or other side, and has often been mistaken for an ovarian cyst.

For the diagnosis of ovarian tumors, there are various and almost numberless symptoms, the great majority being of little or no consequence fos accuracy, and none of them are trustworthy. In the early growth of a simple cyst, symptoms of ang kind are seldom met with until the tumor is suff. ciently large to be impacted within the pelvis. The growth of dermoid cysts, on the contrary, is ofita accompanied by intense pain. As a rule, pain is not met with until cystic tumors are large enough if out of the pelvis, to press on important viscers or unless the surface undergoes inflammator change. As it enlarges, the symptoms becom more varied and numerous. In the pelvis, it pressure gives rise to dysuria or incontinence, cor stipation or diarrhœa, and to various neuralga; in the abdominal cavity, by pressure on the stor ach, liver and diaphragm, it often produces naluga, and vomiting, distaste for food, \&c. Coincidenth, there appear indications of great systemic alter tions.

Ordinarily, the presence of an ovarian tuncot: not brought to the surgeon's notice till it reached a sufficient size to rise out of the petifi
and appear as an abdominal enlargement. Sometimes, however, it is necessary to determine the nature of a small pelvic tumor. An ovarian tumor, in this case, will be found to be almost invariably behind the uterus. Usually, this organ can be fixed between the two hands; behind it is, the tumor, and, if the uterus can be moved independently of it, and if the tumor can also be raised out of the pelvis, no doubt need be felt that it is a tumor of the ovary or of the broad ligament ; how to determine between these two it is hard to say, nor is it of much consequence.
As the tumor increases in size and rises out of the pelvis, it becomes more difficult to determine that it is not intimately associated with the uterus. It is often neressary to introduce the sound to determine this point; but, as a rule, this ought never to be done at the first examination. It not unfrequently happens that menstruation goes on for a few months after conception, and to assert the diagnosis between early pregnancy and an ovarian tnmor just rising out of the pelvis, at a first examination, is a task which only the rash or the greatly experi enced will undertake. Only when it has been ascertained, by manipulation, that the uterus is not enlarged, may the sound be introduced. If then it be ascertained that the tumor is not uterine, that it is rounded, elastic and capable, to some extent, of being raised out of the pelvis, it is almost certainly ovarian. It may be ovarian if fued, though it is rarely adherent at so early a stage of growth. If fixed, it may be a hæmatocele, an abscess, or a soft tumor growing from bone; previous history, symptoms, and, above all, exploration by the aspirator, will determine these points.
When an ovarian tumor has risen out of the pelvis, and has met with none of the accidents to which it is liable, its diagnosis is easy. Palpation and percussion will eliminate phantom tumors. Fluctuation will assist in determining whether it be uni- or multi-locular. Two conditions must be arefully excluded-cystic disease of the uterus and hydramnios. In the former, the tumor will be found associated with the uterus, the latter moving along with it when moved, and being dragged upvards by it to an extent that ought always to maxe us cautious.
Solid uterine tumors, besides the absence of fuctation, have in addition two vascular signs not met with in ovarian growths: namely, an aortic impulse, which may be seen and felt, and an enlargement of the uterine arteries, to be felt in the regina.
Hydramnios generally occurs in twins. Ballottennpht will assist in determining the different diagDosis between a unilocular ovarian cyst and distcnded uterus.
If the tumor be found to be not uterine and solid, yet attached to the uterus, and moving it so as to lead to the belief that it is ovarian, we have a
choice between a dermoid cyst, a fibrous tumor of the ovary, cancer of the ovary, or a pedunculated fibrous tumor of the uterus. Fluctuation in some part, and its peculiar nodulated character, will betray the dermoid cyst, while fibrous tumors of the ovary and cancer are very rare.
The main difficulties in the diagnosis of an ovarian tumor are met with in the subsequent stages of its growth, between the time when it has risen above the brim of the pelvis, as far as the umbilicus, until it has reached its extremest size. Fluctuation, of so much use at an earlier stage, comes to have a decreasing value. Percussion will generally show, in an ovarian tumor, the characteristic distribution of dulness, though accidental complications may vitiate the value of this sign.
The tactus cruditus of a practiced ovariotomist can recognize-when both an ovarian tumor and ascites are present at the same time-that there is a double wave of fluctuation; one superficial and rapid, due to the ascitic fluid, and another deeper and perceptibly less rapid, due to the fluid in the cyst.
The enlargement of veins often seen in the skin of the abdomen in cases of ovarian tumor is of no great assistance as a diagnostic sign. Auscultation gives chiefly negative signs. Tapping, either for the removal of ascitic fluid or the contents of a cyst, is ofter a great help towards an accurate diagnosis. By the removal of peritoneal dropsy, we may discover the actual relations of an ovarian tumor, or we may find that the supposed tumor has no existence, and by removing the contents of a unilocular tumor, or of one or more of the major cysts of a multilocular growth, we may determine the existence of pelvic adhesions, of pregnancy, or of some other condition that may alter our views as to treatment.

Formerly, great stress was laid on the diagnosis of adhesions, but modern experience has led to a disregard almost wholly of adhesions that are not visceral or pelvic.

A final means for purposes of diagnosis, a dernier resort in cases of doubt, is ine exploratory incision. The experience gained by the operator from one such case ought to assist him in avoiding its necessity in similar doubtful cases.

Mr. Spencer Wells has characterized the condition of the medical treatment of ovarian tumors as one of hopeless impotence.

The surgical treatment of ovarian tumors has now been simplified into two operations: the minor operation of tapping, which is palliative, and rarely curative, and the major operation of ovariotomy, which is either curative or fatal. Tapping by the vagina is not usually attended with good results.

The proper selection of cases for the performance of ovariotomy is one of difficulty, and can be based on experience alone. In the author's opinion,
there can be only two reasons for refusing to do ovariotomy-either that the case is not far enough advanced, or that the tumor, in all probability, could not be removed. The most unfavourable case for ovariotomy is to be found in a young, healthy woman, with a medium-sized tumor. The rule ought to be to delay an ovariotomy as long as is consistent with the patient's chances of recovery, bearing in mind that it is not the healthiest that recover best.

Presupposing that a proper case has been selected, experience shows that the more nearly the patient's surroundings resemble those of a healthy private house the better. She requires some preparations for the change that is about to be made in her alvine actions. The time of the operation should be about midway between two menstrual periods. As $w$ the anæsthetic to be employed, the author objects to chloroform, on account of the vomiting which follows its use, and he thinks sulphuric ether is not much better. He recommends the bichloride of methylene and the methylene ether. (The writer then goes on to state his method of operating.)

If there be no adhesions, and no large secondz $;$ cysts, ovariotomy, thus far, is a very simple operation. The complications and unsuspected difflculties are endless, and tax the presence of mind and ingenuity of the operator. Thus a second dermoid cyst may be found packed down in the pelvis, and it may be very difficult to remove it. For securing the pedicle, Mr. Wells's calliperclamp is preferred.

Any tumor of the uterus hi I better be left alone, unless it be markedly pedunculated. If the uterus be enlarged by pregnancy, it must not be interfered with ; but if unfortunately punctured in mistake for a cyst it is best to lay it open and empty it.

The after-course of a case of ovariotomy is subject to many mishaps. Of their approach, the temperature curve is the most trustworthy indication. Immediately after the operation the temperature almost invariably falls considerably. To obviate the shock, it is well to place hot water bottles to the sides and feet, and administer a diffusible stimulant. Advantage has resulted from the practice of giving a subcutaneous injection of morphia immediately after the operation.
For the first twenty-four hours after ovariotomy, the patient is allowed no other sustenance than ice or iced water, and, perhaps, in case of sickness, a little soda-water and brandy, or champagne. Nutriment may be given cautiously on the eecond day, in the form of chicken-broth or beef-tea, in small quantities, frequently, so as to obviate vomiting. No solid food to be taken till after the fourth day.
In the event of the occurrence of symptoms of of peritonitis, special interference may be necessary, such as opening the recto-uterine cul-de-sac from
the vagina for drainage. Septic poisoning is no more a peculiarity of ovariotomy thañ it is of amputations.

Vomiting, a frequent and troublesome symptom, must be stopped, if possible. The most usef remedy in Mr. Tait's experience is Morson's pepsine wine, given in drachm-doses every ten minutes with a little ice-water.

Flatulence is often a distressing symptom, and, if accompanied by a high temperature, is pathof nomonic of peritonitis. Milk and lime-vater often mitigate it, and the passage of a Burns's tube, as far as possible, up the rectum, will give much re lief. Failing that, the author has frequently punc. tured the distended bowels with a fine explorigy trocar, and kept it in for some hours, with great relief. Inflammatory attacks of the chest and diarrhœea sometimes occur.- For three or four dajs after the operation, the catheter should be used every six or seven hours. The bowels should be kept closed by opium for seven or eight dajs After the wound has healed, the patient should wear a tight-fitting adominal belt instead of stass; for, in spite of all care in inserting stitches, there is a proneness to the formation of ventral herniain the cicatrix for many months after the newness of the union has passed off.

The pathology of ovarian cysts involves a number of questions that have been raised and discuis ed by observers of the greatest eminence, but thus far there are no very satisfactory explanations of the growths. As to the causes of ovalian drops, we must confess that we know nothing about them The most common form, the adenoid or proliferous and also the rare multiple tumors, occur duringthe period of life when ovarian cell-growth is mature; the more rare unilocular cystic growths, besidx being met with during this period, occur at the er tremes of life.

The author has not yet met an ovarian tump that was unilocular, and he believes that all unly. cular tumors in the neighborhood of the ovary alt not ovarian, but of parovarian origin. The pary varian consists of a few closed linear sacs, ix remains of the tubules of the Wolffian bodgit foetal life, which may readily be seen on holding the broad ligament with the ovary and Fallopis tube in situ, up to the light. These tubules fir quently contain a perceptible amount of fluid, ad are frequently accidentally found in post-moriemer aminations, distended to the size of beans or filber nuts. In every truly unilocular tumor, Mr. Taith found the ovary unaffected, though, on serat occasions, he has seen it stretcised over the chat wall.
Mr. Tait has met with an example of a rat variety of ovarian tumors, the origin of which $h$ been traced by Rokitansky and Ritchie. In case recorded by the author, both ovaries med affected in their entirety. The tumors were muld
locular, and had one or two major, with innumerable minor cysts, graduating down to the most minute size. The tumors hat the appearance of buge white raspberries. An examination of the contents of a large number of the cysts discovered in every one more or less distinct remains of an orum. The condition seemed to be an hypertrophy of the ovaries, with arrested development of th..ir contents.-Beston Medical and Surgical Yournal.

## APPLICATION OF THE FORCEPS.

[Dr. E. H. M. Sell, in The Physician and Pharmacist, gives the following rules as obtaining at Vienna in the use of the forceps in obstetrical practice :-]
In the application of the forceps, the following three conditions are noticed as essential in the operation :

1. The cervix must be fully dilated and the head through the os and at the floor of the pelvis.
2. The forceps may be applied when the head is faund in the vagina, not enveloped by the os uten, whether it is rotated or not.
In the latter condition the blades should often be opened a little, so as to allow the head to iotate, though it frequently does so with the forceps.
3. In all cases of application of the forceps, the bladder of the woman should first be emptied. Should this be rendered difficult, from the pressure of the head upon the bladder, dividing it into two sacs, we will generally succeed by pushing the head a little up from the pubes.
4. In cases of danger to the child, the forceps should be applied, provided the conditions permit.
There is always danger: (a) when meconium appears; (b) when the mother is exhausted ; or eclampsia threatens. When the cervix, however, is not dilated, we must allow the child to die, and then perform craniotomy, rather than run the risk of rupturing the iterus.
We would say dilate the cervix by artificial means rather than do either.
5. When the head remains a long time in the ragina and does not advance without any apparent cause.
In the latter part of a delivery the forceps are no traction-instrument, but simply a controller of the birth, allowing the head to come out gradually; should it advance too fast, we must lower the handles, or a rupture of the perineum will be the coisequence. Should a rupture be eminent, episiotomy is perfo:med in preference.

A rupture of the perineum is treated by the im. mediate application of serre-fines, which are usually removed in about thirty-six hours. In case of the rupture extending through the sphincter-ani, a few simple sutures are applied.

In abnormal rotation of the head, we apply the forceps as usual, with this difference, that we do not sink the handles quite as much, and continue our first traction in a horizontal direction till the chin comes under the pubes; when we commence extraction, we raise the handles at an early period to bring the occiput over the perineum, and then by depressing them, the face is born under the pubes.

When there is a caput succedaneum we must push the hand as well as the forceps high up, for the tumor may be large.

## APPLICATION OF THE. FORCEPS TOA HIGHSTANDING

 MEAD.In this condition the os uteri is not yet fully dilated, nor the cervix drawn back over the head of the child, which is freely moveable, as it is not yet firmly fixed in the entrance of the pelvis.

In this application of the forceps, which is done only in cases of very urgent necessity, it is very easy for the head to move from side to side, causing the forceps readily to glide off, and may thus do great injury to the mother.

The woman should be thoroughly anæsthetized, and the fcrceps always applied laterally, guarding the blade with the hand instead of the two fingers, thus avoiding doing injury to the os.

In face presentation at the upper strait, the forceps ane especially dangerous, for one blade rests on the calvaria and the other on the chin and trachea. This presentation is often the forerunner of craniotomy.

In forehead presentation at the upper strait, the face usually presents to one or the other acetabulum. In this presentation the forceps are only applied to satisfy the feelings of friends who may be standing by ; while we appear to make considerable traction on them, we proceed to perform craniotomy.

We would recommend strong traction to be made, and would expect to be successful in some cases.-Medical and Surgical Reporter, Dhil.

Oxide or Zinc for Night Siweats.-The Pacific Meaïcal and Surgical fournal remarks that the must ancient and venerable remedy for night sweats is aromatic sulphuric acid, in infusion of cinchona, serpentaria, or sage. The best of all remedies, however, is this: Oxidi zinci, gr. xxx. ; ext. hyoscyami, gr. xv M. f. pil. x. Sig. Take one at bed-time.

## THE ANNUAL MEETING OF THE BRITISH MEDICAL ASSOCIATION.

There are differences of opinion about the merits of the meeting of the British Medical Association in as far as concerns the purposes of the scientific investigator who wishes to publish a first report of fresh work or of newly acquired facts, and to raise upon such a basis a careful and patient discussion. And every year the misgiving as to the fitness of the meeting for this purpose is likely to increase. When some hundreds of medical men break away from practice to enjoy a few short itugust days in a presumably interesting and hospitable town, the centre of an equally interesting neighborhood, they are not in a mood to hear papers of more than a few minutes' length. If they were ever so patient, and there were no excursions and festivals to compete with the scientific business, the crowded programme seems to render thoroughess of discussion impracticable. The exigency of the occasion requires that scientific communications be abridged, and that the discussion of them be curtailed so as to make way for other papers, which in their turn have to be pared down to suit the inexorable conditions of time. But this weakness of the gathering, as far as scientific purposes are concerned, does not amount to a proof that it is not of great value to the profession and highly interesting to: those who compose it. Whatever the fragmentary and hurried character of the work in the sections, the lucky and for the most part eminent individuals who are called upon to deliver the principal addresses in Medicine and Surgery have a perfect opportunity of emitting any light that is in them, and of stimulating at once the scientific and the practical spirit in the members of the medical profession. And to do the promoters justice, we may say that so long as they can organize arrangements for such Addresses as those we reported last week, and such excursions as were in the programme, they will not fail to command, or deserve to comtand, large gatherings. He must be a faulty individual who conld listen to these addresses, and be in the company of their authors for a few days, without being raised in character, and without having a new belief and pride in the art and science of $M$ Medicine.

The address in Medicine by Dr. Russel ReyNOLDS was an eloquent exposition of what we may call the metaphysics of Physic. Those who went expecting the distinguished Professor of Medicine to post them up in the latest truth concerning new remedies, or to give preciser definition to old forms of disease, would be somewhat disappointed with the Address in Medicine. Frankly we may confess to some feeling of this sort, and some regret that a physician of much large and withal special experience did not give a more therapeutic and practical turn to his Faper. But the more deeply

Dr. Reynolds's address is studied, the more practical its bearings will be found. And we shall not only come out of the study with deeper and larger views of the nature of life and of man, but we shall come out of it better physicians and better practitioners. It is significant to find a physician of $D$ r. Reynolds's special knowledge expressing his be. lief that we are no nearer than our forefathers to an understanding of the mystery of life, and that we are never likely to get much nearer to such an anderstanding. Most practica!, both in physiological and medical sense, are the remarks of Dr. Revinole. on the peculiarity of man and the im. portance of those higher qualities of intellect and feeling which differentiate him from even the highest animal-qualities which have been intensitied by modern civilization to a degree which renders them more and more necessary to be considered by the physician. A clear note of this kind mas much needed, and Dr. Reynolds was well entitled to squad it. Comparative anatomy and comparative pathology are all very well, but they do not much help us to understand the complex life of $m^{2} \mathrm{n}$, and the special and subtle influences by which it is constantly in danger of being injured or cut short. Statistics are all very well, but they do not help us much to understand the complex ase of the individual men and women and childrea who come to us daily for relief. A deep reverence for man as such, and a keener interest in individe al cases, are the great points which Dr. Reynoms impresses on us.
As' if by a happy understanding, there was a sharp contrast between Dr. Reynolds's addess and that on Surgery by Mr. Cadge. Mr. Cadoe's address had reference to one definite disease of the most concrete character-that of stone-and its wanderful prevalence in Norfolk. It was at together admirable. In one respect, indeed, is was deficient and disappointing. Mr. Cadge told us nothing about his mode of operating. Lite other operators of the largest experience, he has the least to say. It transpired incidentally that be had performed nearly 200 operations for stover But with that strange modesty which comes d large experience and great expertness, we hearnoth ing of his method. An operater who could couti his cases on his fingers would have told us exaclly where and how and how much to cut. But ty Cadge repressed all this wisdom, and showed ty he was more bent on elucidating the origin of the stoñe than displaying his own skilh. Like a god physician, he was concerned with the diathesis ${ }^{2}$ well fs the disease. He showed how many hing have to be considered in forming theories of lititisisi and stone. He raised the dietary of the Nordid peasantry into a question of the highest sciendidy interest. He invested milk with a new imporand -as an antiliturn food; and attributed the strikity absence of stone in the children of the wellitod
classes to the fact that they drank milk. On the contrary, he attributed much blame to the strong, sweet, new beer of which the Norfolk peasant drinks too liberally. He is disposed to believe in the power of the hard water of Norfolk to produce stone. Finally, he thinks there is as much inherent probability in favor of the hereditary transmission of stone as of gout, cancer or scrofula. Let us hope for a statesmanship that will make milk cheaper, and water, not as hard as Norfolk water, the plentitul possession of every poor man. And as Mr. Cadge has indicated to Nortolk and the Eastern Countries how to prevent stone, let us hope that he will soon indicate to the profession how to get rid of it.
We have left no space to notice Sir James Pager's exquisite address in the Surgical section. But, fortunately, everybody reads what Sir Janms says, and his words speak for themselves. If Sir James is proud of Norfolk, Norfolk may well be proud of Sir James. We shall not be so ungracious as to $r$ :sturb this kindly setting in which Sir James ingeniously and suggestively placed the good old customs of bleeding and mercury-giving. We are still not convinced that it was good practice to tum every case of acute pain into one of acute anemia, or to administer mercury in nearly every case of chronic disease. We cannot think so ill of these "good old times" as to suppose that syphills formed a part of the diseases nearly as often as calomel formed part of the medicine. But we thark Sir James most heartily for his fine human portraits of Norfolk worthies, and for detectiiag, with an instinct as kindly as it is acute, the scientific element that lurked in their heroic practice. Happy the county whose worthies have a pupil so able to do them justice and to perpetuate and extend the fame of Norfolk surgery.-The Lancet.

## CLINIC ON PROGRESSIVE LOCOMOTOR ATAXY, WITH ANOMALOUS JOINT AFFECTION.

by t. buzzard, M.d., F.R.C.P., National hospital, ENGLAND.
Let me draw your attention to the man who now enters the room walking with the help of a stick. There is a marked peculiarity in his gait, and when you look at his legs for an explanation of it, you observe at once that the greater part of the right lower extremity is enormously enlarged. Examining him, however, more closely, you see that this enlargement fails to account for his peculiar walk, for the left leg, which is not notably altered in size, presents an abnormality in movement which corresponds to that in the right. If Feanalyse his march, we find the following peculanities equally well marked in the two legs :-In
the first stage of progression the foot, which normaliy should be carried forwards nearly paraleel to and at a distance of an inch or so from the ground, is raised some inches higher than this, and in a strongly dorsal-flexed position. When it has reached the measure of the step, the heel is put down noisily, and with a sort of jerk, the toes being then gradually brought down from their upward flexed posture, and laying hold of the ground preparatory to a repetition of the process. All this time the patient's feet are turned out like those of the dancing masters of our youth, and his eyes are fixed unon the ground in front of him. When he wishes to turn, he stops short for a second or two, steadies himself, and brings himself round with great calltion. He is not able to move in a small circle. He walks best on an even surface, and goes down stairs easier than up, taking care to plant the entire sole of the tont upon the step. If his feet be placed close together when his eyes are shut, he sways to and fro, and would fall but for help, and he cannot take more than two steps without the aid of his sight. His toilette is embarrassed by this difficulty, for he tells us that when he is soaping his face, and consequently shutting his eyes, he is obliged to lean against the wall, or he would fall. With all this, if we try to bend his legs at the knee against his will, or to resist their voluntary extension, we find little or no failure of muscular power.

His condition, then, it is scarcely necessary to Say, is one of ataxy, and not of paraplegia. Moreover, the difficulty of co-ordination is not confined to the lower extremities. The patient is a carpenter, and he finds it impossible to use a hammer, for in striking at a nail he constantly misses his aim, and goes to one side or other of the object; and he cannot saw a piece of wood in a straight line.
So much for the disorders of motility. As regards thase of sensibility, they are of two kindsdimination of various kinds of sensibility, and pain. He complains of a feeling of numbness in both feet, extending some inches above the ankles, and also in his hands, principally in the left. The touch of a finger is not felt at all on either sole ; in the same situation, however, the contact of ice is immediately recognised, and its coldness appreciated; heat, on the other hand, is more slowly, but still correctly recognised. Electro-cutaneous sensibility is much diminished in the hands, still more so in the legs, and is quite absent in the soles of the feet. The muscular sense is manifestly impaired, for not only can he not tell when in bed in which direction his legs are lying, but he cannot feel the contraction of the muscles of his thighs when they respond to an induced current. This response is normal in the rigft thigh, somewhat deficient in the left, and very imperfect (probably for a reason which I will mention presently) in both legs below the knees.

The other disorder of sensibility consists in the liability to "flying pains," and these he has had since 1869 , the longest interval of exemption having lasted about three months. His last attack of pains visited him on Sunday, Monday, and part of Tuesday. A pain would last perhaps five seconds, and resemble some sharp instrument suddenly pushed into the lower part of the shin-bone. It would recur every five minutes or so during the daytime, and almost entircly deprive him of sleep during the nights. And this has been the genpral character of his pains, which, however, were worse formerly than they have been of late. Since the commencement of his illness he has always had a feeling as of a tight barid arough his waist, and cf distension in his stomach.

Although the symptoms described are those common to progressive locomotor ataxy, they do not of themselves suffice to mark the case posi tively as one of that class, as pictured by Duchenne. To complete the catalogue, there should be some evidence of functional disorder of one or other of the cranial nerves. As is well known, diplopia from paralysis of one or other of the nerves supplied to the external muscles of the eyeball, and amblyopia from progressive atrophy of the optic disc, are the most common forms which these disorders assume. Now, this man has a well-marked squint; and if we had not inquired particularly abo:tt this feature of his case, we might easily have jumped to the conclusion that the symptom, as it appears in him, is just that which is wanting to complete the crasemble of the requisite conditions. But it seems on inquiry that his strabismus dates from very early childhood, and there is little doubt that it is one of those ordinary squints arising from hypernetropia which are so often ascribed (as he, indeed, ascribes it) to a kind of retribution for imitating a school-fellow with the like affliction. We must, therefore, exclude the strabismus from our calculation. Examination with the ophthalmoscope discloses no change in the optic discs; and the man himself complains of no material weakening of his sight. We do find, however, one cranial nerve which shows symptoms of disordcr. For the last few months our patient has been growing deaf in the left ear, and now he cannot on that side hear the ticking of a watch however closely it is applied. Duchenne, Renak, and Topinard have each recorded instances in which the auditory nerve was affected; the latter mentioning seven cases in which he has noted this condition. The feature is a slight one, and not common; but in this case so characteristic are the disturbances of motility and sensibility, that it suffices to complete the picture. I ought to add, $\pm 00$, that his pupils are minitely contracted. For the rest, we note that at various times he has had great delay in emptying his bladder, and occasional incontinence of urine ; and that for a long
time past he has been impotent. In the earlier part of his illness he suffered from gastric disturb. ance of a peculiar kind. He would require is relieve his bowels five or six: times in the twenty
four hours, the motions being small in quanty four hours, the motions being small in quantity and solid, and he would besides go more than once daily to stool without result. This imitability of the bowels, although not usually included amongst the phenomena of progressive locomotor ataxj; is a symptom which I have occasiona ${ }^{11}$; observed in other cases, but never, I think, occurring so early in the history as it did in this man.

It seems that our patient first began to stagger in his gait about June, r868. The "flying pains" commenced early in 1869, and in March of that year he began his attendance at this hospital Under treatment with arsenic he rapidly improved so much that he was able to return to his occupa. tion, which he had been obliged to quit, and be continued to work more or less for his living untid December last. Since that time he has not beea able to follow his employment, but has attended here regularly.

It was in June, 1873, that he called our atten tion to his right leg, which he said was enlanged On examining it, we found the leg swollen and œdematous below the knee. The circumstance after this escaped our attention until the following December, when he again complained very much of this limb. On stripping him, the knee-joint and the thigh for some distance above it were nor found to be enormously enlarged, evidently mith fluid, and this condition has persisted ever sibue with but very slight variations of size.

At the present time (July, 1874) the follosing is the condition of the limb :-The right thigh begins to swell a short distance below the groin so that at a point eleven inches above the uppe border of the patella it measures 17 inches in cireumference, as against 16 inches in the ${ }^{1}$ fu thigh. Descending, the enlargement is more and more marked until the knee-joint is reached, ans here the measuring tape applied over the pattlu gives a circumference of 19 inches on the rigl: side and only $13 \frac{1}{2}$ inches on the left. About trit inches below the lower margin of the patella the enlargement almost suddenly ceases. The smet ing is hard and elastic, the skin of almost polistal smoothness, and traversed by large veins. Exter sion of the leg is perfectly performed, but flexix is somewhat limited. Since the photograph mis taken in March last, although the size of the lim has continued the same, you will notice that t curious alteration in its appearance has taken plad The leg now forms an angle of about 45 deg . $\begin{aligned} \\ \text { dits }\end{aligned}$ the thigh, the apex being inwards-a deformity which is due to subluxation of the joint fron tis strained and weakened internal lateral ligame gradually refusing its office. That the sweiling not odematous is evident for two reasons : -1 is

There is no pitting on pressure. 2nd. When the describes no less than five examples of the kind theophores carrying an induced current of ele-- out of fifty cases of tabes in the Saltpétrière. It tricity are placed upon the quadriceps extensor is to Dr. Charcot,* I think, that we owe in the muscle just above the patella, where the enlarge- | first instance the recognition of this peculiar arthroment is very great, there is immediate and powerful ' pathy, which has been well described also by Dr. muscular contraction. The electric excitability at ' Ball. In this country, so far as I am aware, the this spot is, indeed, much more marked than in' only recorded case is one described by Dr. Clifford the corresponding pait of the left thigh. The Allbut. $\dagger$
fluid therefore lies under and not superficial to the Dr. Charcot looks upon the affection as one of muscle, as would be the case in œdema. Lower the multiple forms of spinal arthropathy, by which down, the leg is certainly somewhat oedematous; term he would designate a group of disorders which and there, as you see, the conduction of the cur- appear to be directly dependent upon certain lesions rent is interrupted by the presence of fluid in the of the spinal cord. In his experience the arthrosubcutaneous connective tissue, and the muscles ipathy in question is always an early phenomenon, consequently fail to act to the electric stimulus. loccurring between the prodromous period and that The increased excitability of the quadriceps exten- of inco-ordination, If it should, however, be late sor in the affected limb is doubtless owing to the ! in appearing, it is then always, he says, in conthinning and tension of the stramed skin, favoring! nexion with one of the superior extremities, and conduction to the muscular tissue immediately he attributes this to the circumstance of the sclebeneath it. When the leg is rapidly extended, Irosis, which is the cause of progressive locomotor the hand laid upon the knee-jont is conscious of !ataxy, frequently invading the upper part of the a peculiar scranching thrill. Now it is important cord only after the lower part has been for a long to remark that all this accumulation of fluid has time affected. The present case, however, is an taken place without any of the symptoms of ordi- exception to this rule, for the symptom in question nary joint inflammation. Durng the process of did not appear until marked inco-ordination of the enlargement the patient had no paip or heat in the lower extremities had existed for many years; and joint; he was conscious only of a gradual increase in its size. At the present time, if he kneels or walks much, he gets a little aching pain extending down the leg, but so long as he does not bend the! knee much he has no pain whatever, and the only inconvenience which he suffers is from the weight of the swollen limb causing him to be readily fatigued. There is no swelling of the ankles or feet. As I pointed out before, the action of the right leg in walking is precisely similor to that of the left, but the movement of the joint is limited in the direction of flexion.
Such is the very anomalous joint affection which ! this patient presents. It is, you will remark, a condition which asserts itself so very prominently that, were this man to present himself for the first ! time for medical advice, it is more than probable i that the whole attention of the examiner would be fxed upon the state of the right limb, and the much more serious general disorder with which the ! patient is affected would be passed over unnoticed.
Itso often happens in clinical medicine that we! fiil to see what we do not specially look for, that I am constrained to believe that such a condition as this has probably existed (though not, perhaps, to so marked an extent) in others of the somewhat numerous instances of progressive locomotor ataxy which have come under my observation; but it is a fact that $I$ have never before noticed this affection, and my colleague, Dr. Hughlings Jackson, to mhom I showed this patient, tells me that it is likewise the first case of the kind which he has seen. This experience, or lack of experience, contrasts remarkably with that of Dr. Charcot, who
it is in the knee-joint-not a joint of the upper extremities-that it has shown itself. Dr. Charcot describes the condition as an extreme tumefaction of the entire limb, composed of (1) a considerable hydrarthrosis; (2) a diffused swelling, for the most part of hard consistence, and in which the ordinary symptoms of oedema are not usually apparent. He remarks that this arthropathy is unaccompanied generally by fever or pain. This description precisely applies to the case before us. You will note besides, that although the knee-joint is enormously distended with fluid, it does not present the appearance of ordinary chronic synovitis, in which the distended capsule of joint projects with marked distinctness in three places-viz., above the patella and on each side of the ligamentum patellæ. There is no such mapping out of the knee-joint in this case ; and this is evidently because, in addition to the fluid in the articular cavity itself, there is effiusion in its neighborhood. This effusion, as it does not occasion the appearances of subcutaneous œdema to present themselves, is probably beneath the muscles. The affection, then, is a peculiar one, and its pathology is by no means clear. Experience of these cases shows that, with a striking similarity in their onset, their progress varies. In some, at the end of a few weeks or months, the swelling disappears, and the joint apparently returns to its former conclition. This is styled by Dr. Ball the forme benigne. In

[^0]others, on the contrary, grave disorders remain -erosions of the osseous surfaces, creaking move ments, various luxations, or even total destruction of the joint (forme maligne). As regards frequency, it is first the knee, then the shoulder, the elbow, hip, and wrist which are apt to be affected; but the smill articulations may also suffer. Several joints may be coincidentl. $\because$ olved.

The affection, which in ce. ain respects is suggestive of dry chronic arthritis, differs from that disease, as Dr. Charcot points out, in several par- 1 ticulars : in the large quantity of fluid by which it is characterised, and the fact of the effusion extending beyond the limits of the joint ; in the luxation which is common in the ataxic class; in the fact that the knee is most commonly affected, not the hip, and that the joint affection of the tabetic patient may retrugrade or even recover, which is never the case in dry chronic arthritis ; in the suddenness of the appearance, and rapidity of progress of the disease. On the other hand, it is true that in cases of old standing, when the articular surfaces, deprived of cartilage, have continued to rub against each other, the characters of dry arthritis are observed; eburnation and deformity of the articular surfaces, with osseous growths on the extremities of the bones.

The existence of articular affections dependent upon preceding lesion of the nervous system is now generally recognised. Such affections have been obscrved in connexion with lesions of the peripheral nerves, as well as in limbs which are the subject of hemiplegia from hæmorrhage or softening of the brain, in Pott's disease, in acute myelitis, in certain cases of tumors occupying the grey substance of the cord. The fact that the joint affection is exceptional in progressive locomotor ataxy suffices to show that it is not due to the sclerosis of the posterior columns which constitutes the important pathological change in that disease, but to lesion of what part of the substance of the cord its causation must be referred there is at present no evidence to show.

I think it very likely that, as we shall in future specislly examine the joints of our ataxic patients, we shall meet with cases of the same character as that which I have described. - The Lancet.

## HOT WATER INJECTIONS IN UTERINE DISEASES.

Dr. T. A. Emmet (N. Y. Medical Foarnal, July, 1874), in an interestind and valuable article upon the Philosophy of Uterine Diseases, makes the following practical remarks upon hot water as a means of controlling pelvic circulation and imparting tone to the pelvic vessels:

The prolonged use of hot water is followed by a tonic contraction of the arterioles, and thus an
approach to healthy action. The immediate effect of heat is dilation, the secondary effect contraction. The best method of using hot water to obtain its contracile effect the Doctor describes as folloms:

The woman is placed on her back, with the hips elevated by a properly shaped bed pan under her, and a gallon or more of hot water at $98^{\circ}$ or a high. er temperature, is slowly injected into the ragina by means of Davidson's syringe. This operation blanches the mucous membrane and diminishes the size of the canal, as if strong astringent had been used. While the hips are elevated the vagina aill retain during the injection a large quantity of water, which, by its weight, w:ll histend every portion of the canal, so that it will come in direct contact with the mucous membrane, under which the capis laries lie. The vessels of the neck and body of the uterus pass along the sulcus on each side of the vagina, and their branches encircle the canal in a most complex network. The vessels of the fundus, through the veins of which the blood passes by the liver back into the general circulation, communicate with those below by anastomosis.

We can thus, through the vagina, influenc, directly or indirectly, the whole pelvic circulation We can so diminish the supply as not only to ched congestion, but we can litcrally starve out an inflammation. I know from my own personal observation that several of these injections a day at $100^{\circ}$ to $100^{\prime}$ will abort an attack of cellulitis if resorted to eary enough, and their use persevered in, with the aid of rest and anodynes. These injections exercisa most beneficial effect on the reflex system, by allar ing local irritation. I know no better means io removing the nervousness and sleeplessness of an hysterical woman than a prolonged hot water vagir al injection when administered by an experiencod hand. The injections will frequently soothe a pa tient in less time than could be done by any drs in the pharmacopoia. To receive permanais benefit from their use, they must be continued und the patient is restored to health. They should be given once a day, preferably at bed time. Theons position in which the patient can receive any baik $\hat{i n}^{-}$from them is on the back, with the hips elerated as described. She cannot administer them prope ly herself-and I kzow of no arrangement whid can take the place of an intelligent nurse. As th patient improves in health the quantity of mata can be diminished and the temparature lowerad until the injections are discontinued from daily xt : but for some time they should be employed fors few days after each period.-Detroit Med. Reviat

It is said that the oxyuris vermicularis, or threat worm, may be readily dislodged from its favoit habitat in the rectum by the .njection of from in to three ounces of ol. morrhuæ, repeated once a $^{\prime}$ twice.

ACUTE RHEUMATISM; PERICARDITIS;
SUDDEN AND RAPID EFFUSION INTO
PERICARDIUM ; PAKACENTESIS PFRI-
CARDII; RECOVERY.
(Cnder the care of Dr. Shinialeton Smith.)
W. L-_ aged twenty five, married ; a plasterer. Has had four attacks of "rheumatic fever" during the last three years, but does not know that his heart was affected in any way. Has not complained of shortness of breath, and has had no difficulty in getting about. He has been ailing for the last nine months, but did not lie up tall three neeks ago, when pain in his hips came on, and he has been obliged to remain in bed since.
Admitted March 13th, 1S74. Complains of 12 feeling sore all over. He is unaile to move without pain, but no articular swelling is visible. Perspires freely. Has a depressed expressina, and,
lies on his back Temperature 102.6 ; pulse ios; lies on his back Temperature $102^{\circ} 6^{\circ}$; pulse 108 ; respiration 32. Complains of pain in the cardic region on drawing a deep breath. A friction sound is audible over the base of the heart, and a prolonged blowing sound at the apex. There is no increase of cardiac dulness. The urine has a speclife gravity of 1025 ; it is slightly acid, but free from albumen. Ordered six leeches to be applied to the cardiac region, and to take an akaline mixture every four hours.
14 th-Friction sound at the base less distinct. Temperature ror $2^{\circ} \mathrm{F}$.; pulse 92 ; respiration 28 . There is slight effusion into both knee-joints, and | tenderness about the ankles. The precordial pain relieved.
2 3rd.-The friction sound still audible. Ordered some blistering fluid to be applied over the base of the heart.
24th.-A loud double friction audible over the whole cardiac area, but no increase of cardiac dulness.
25 th.-Was taken suddenly in the night with zoute precordial pain and dyspnua. At midday the pain was unrelieved, and dyspnuea considerable. Prlse small and weak, 130 ; respiration 44 ; temperature $100^{\circ} \mathrm{F}$. Cardiac dulness extends to the \#cond interspace : no cardiac impulse to be felt ; haart sounds scarcely audible; no friction sound. Lips, ingers, and toes looking blue ; no impairment of consciousness, but dsypnœa very urgent. Paracentesis pericardii was considered necessary, an nothing short of the removal of the fluid from He pericardium seemed likely to restore the rapidIfreakening power of the heart. Accordingly Mr. Charles Steele was called in consultation, and immediately proceeded to perform the operation. On of the larger sized tubes of Dieulafoy's aspiralor ras plunged through the skin and chest-wall at aspot between the fourth and fifthoribs aii ${ }^{3}$ half majbetween the middle line and the nipples on
the left side. Several ounces of perfectly clear serous fluid were then drawn off by suction, but the fluid gradually became more and more colourled till it appeared to be mere blood. After ten ounces of fluid had been withdrawn, the tube was removed, and the aperature closed with strapping. The area of cardiac dulness had considerably diminished, and the dyspncea was much relieved for a fel minutes, but the dulness increased again in |about ten minutes, though not to the same extent as before the operation, and he still had considerable difficulty in breathing, but the pulse was stronger than before. It was presumed that some hæmorrhage into the pericardium had taken place, as the last few ounces of fluid looked like undilutI ed blond, and the whole quantity of fluid became a coherent mass of coagulum after standing. In the evening he breathed more easily. The pulse was 124, fuller than before the operation; respiration 44; temperature $103^{\circ} \mathrm{F}$.
26th.-Pulse 124 ; respiration $3^{6}$; temperature 10: ${ }^{\circ}$, morning.
$2\{$ th.-Pulse 116 ; respiration 32 ; temperature ioo The left wrist was painful and swollen; he perspired very copiously ; pericardial dulness less ; respiration easy.

On April 2nd he was free from pain, and slept well. On the 7 th he was not so well. Pulse ir2; temperature $99^{\circ} 6^{\circ}$. Did not complain of pain; could draw a deep breath without difficulty; cardiac dulness normal; a slight systolic friction sound audible at the base of the heart.

On May roth he was discharged, the heart's sounds being normal, the area of cardiac dulness not enlarged. He was still weak, and the pulse was rather small, soft, anid quick.

On July 6th he was doing his regular work without much difficulty.-The Lathest.

A Handi Method of Examining Morbid Tissues Mieroscopically (The British Medical Fournal, September 5, 1874). - Take a portion of nerve-tissue, about the size of a large pin's head, from a thoroughly defined locality, press it out gently under a covering-glass on a slide, remove the cover-ing-glass, and apply to the mass left on the slide a drop of "Judson's simple (aniline) magenta dye," diluted with eight drops of water ; with a needle, mix the dye and the nerve-matter carefully, and cover the preparation with a clean covering-glass, again gently pressing it out to such an extent that light can pass through it. On submitting a specimen thus prepared to the microscope, it will be found that the cells, the nuclei of the neurogl: , and the blood-vessels, are beautifully tinted a deep crimson color, leaving the other tissues almost unaffected. Morbid products are also well brought into view, either by their ready absorption of the dye,
as in the case of amyloid bodies, or by their refusal to take on the tint, as in the case of colloid bodies. Hrematoidin accepts the color all too readily, but the practised eye soon recognizes its appearance. Pigmentary degeneration of cells is well shown, nucleus and nucleolus b -ing thoroughly demonstrated ; the poles can also be traced for long distances. —Med. Times. Philad.

## CASES OF FRACTURE OF THE SKULL.

## (Under the care of Mr. Sidnfis Jones, St. Thoman', Hospital.)

The two following interesting cases of fracture of the skull-for the notes of which we are indebted to Mr. S. Usborne, surgical registrar-have recently been treated at this hospital.
G. M.-_, a child, fourteen months old, was admitted into Victoria ward on July 6th, having been run over by a spring cart, which passed over his right leg and then over the righ side of the head, causing contusion of the leg and a large effusion of blood beneath the scalp extending from the nape of the head to the vertex. The patient was insensible; the pupils contracted; there was bleeding from the nose, but none from either ear ; surface of body cold; breathing rapid ; temperature $99.6^{\circ}$. The child vomited on admission, and again at intervals up to 12 o'clock at night. Icebag was appiied to the head.
July 7 th. -Morning ; Temperature $1002^{\circ}$; pupils still contracted; no strabismus; vomiting has ceased ; skin warm.-Evening ; Temperature $100^{\circ}$; patient quite conscious.
8th.-Morning; Temperature $100 \cdot 2^{\circ}$; quite conscious; has again vomited several times; no twichings.-Evening; Temperature $100^{\circ}$
roth.-Child sitting up in bed and doing well. A fracture of the skull can now be distinctly felt, in a line with the sagittal suture, extending from the posterior fontanelle to the right side of the occipital bone, a portion of the bone on the right side being depressed. Pulsation of brain-substance discernisle. Temperature normal.

28 th. - Child shows no bad symptons. The fracture is gradually closing up.
S. H.- a child aged three years, was admitted into Elizabeth ward on the 3oth of June, having received a blow upon the vertex of his head from the pointed end of a pickaxe. On admission the patient was partially sensible, surface of body pale and cold, pupils slightly contracted, breathing short. Temperature $976^{\circ}$ Much hæmorrhage of venous character from a small wound over the sagittal suture, communicating with a fracture of the skull in that situation; longitudinal sinus laid open; probe passed within the skull for about a
couple of inches, probably through the longitudinal fissure down to the corpus callosum ; slight puffi ness of forehead. Ice-bag ordered to his head pad of lint placea over wound.

July ist.-Morning temperature $99^{\circ} 6^{\circ}$; child quite conscious, and without any bad symptom; slept well during the night. Evening temperature $98^{\circ} 2^{\circ}$

Still going on well. Morning temperature $90.8^{\circ}$ puffiness of forehead has somewhat decreased.

19th.-Out of bed and running about.
2oth.-Very restless during the night, caliing out and being very fretful. Temperature, 9 a.s. $105^{\circ} \mathrm{F}$. ; quite constious, hut restless and dromsy; no paralysis or twitching; no sickness. Evening temperature $1033^{\circ}$

2 1st.-Morning temperature $103^{\circ} 4^{\circ}$; child still restless; no sickness or shivering ; wound looks healthy, no hæmorrhage ; slight purulent dischange; complains of pain, which is accompanied by swell ing behind and helow the ears; glands enlanged and tender along the border of ramus of jaw. Ere. ning remperature $1028^{\circ}$.

22nd.-Morning temperature $9 S^{\prime} S^{\prime}$; passed a good night and is apparently well.

25th.-Puffiness still remains about forehead; swelling in neck has decreased ; child sithng up in bed. Temperature normal.

26th. -Morning temperature $93.4^{\circ}$. After har. ing been visited by his friends, and in all probab: lity stuffed with sweatmeats, the patient becare. very restless toward evening, and had a temperature of $103.5^{\circ}$.
27.-Morning temperature $97^{\circ}$; child is agin quite well and bright. 4 P.m. ; Temperature g8:

The patient has since made satisfactory pro gress.-The Lancet.

## MEDICAL NEWS AND ITEMS.

Fibrous Anchylosis (Medical Record, Septerir ber I, 1874).-Dr. Louis A. Sayre believes thati those cases of fibrous anchylosis which most clos ly simulate bony anchylosis, a distinguishing fer ure is that if movements are made at the joint, ast any motion whatever is secured during the manip? lation necessary to a thorough examination of is case, it will be tollowed by more or less of pai, within twenty-four hours. For when bony ardsf losis is present no movements at the joints can made, consequently pair will not be producedi the point of anchylosis. This rule will be found be reliable. The subsequent occurrence of pis in and about the joint, even if there be no appares motion, will justify measures calculated to gire: it gradual restoration of motion.-Med. Time.
Plitad.

Efect of Summersion in Warm and Hot Water.-Dr. F. H. Hamilton (N. Y Mcdical Rciond, May 15, 1874) sums up an interesting contribution to the treatment of surgical injuries as fol lows: The use of hot water is limited to injuries below the knee or below the middle thard of the arm. It is especially valuable in laceration or contosions, inflammations, etc. No treatment observed by Dr. Hamilton has been followed by equally favorable results. The area of acute inflammation is limited, erysipelatous inflammation has been almost unifomly arrested or restrained when it has actually commenced, and it has never originated after sub. merison, gangrene has in no instance extended bejond the parts originally injured, and, when progressing, it has in most cases been speedily arrasted. Septicamia and pyæmia have not ensued in any case in which submersion has been practiced from the first day of the accident. Purulent infiltrations and consecutwe abscesses have been infrequent, and always limited to the neighborhood of the parts injured and of small extent. Traumatic ferer, usually present after grave accident, when other plans of treatment have been pursued as early as the third or fourth day, has setdum been present when this plan has been adopted, and in no case has the fever been intense or alarming. The phenonena usually observed in cases of recent lacero.ted or incised wounds when submerged are, a sense of comfort, yet not absolute relief from $r$ ain ; on the second or third day the adjacent parts are sxollen, but not so much reddened. The integument usually assumes a white, sodden appearance, and only slight tenderness. On the fifth, si: +h or serenth day, the swelling is greater than usually accompanies other plans of treatment, but it is not attended with increased tenderness, and is chiefiy in a condition of oedemna At the same time, the granulations are ger.erally covered with lymph. or some exudiate of a whitish color. At the end of fourteen days, the period at which fomentations are substitutes of submersion, the limb is still adematous, the granulations abundant; sometimes red, and sometimes covered with the white exadi-ale,-Med. Review, Detroit.

Treatment of Fracture of the Femur by Ibsiovable Apparatus.-Dr. F. H. Hamilton ( $N$. Y. Medical $\mathcal{F}$ ournal, Aug, 1874) makes a valuable and scientific contribution to this disputed subject. The reported cases were treated in Bellevue and other New York hospitals, by himself and friends. The measurements were made both by the doctor and one other physician. The figures given are those obtained by these measurements. Further, the cases are taken without any selection, but in regular ora.: as they were treated in the hospitais. Thirty-seven cases are reported. Of these, ten are under eighteen, and twenty-seven over eigh ${ }^{+}$en yeass of age. Of those under cighteen there were
three perfect, the others ranging from one-quarter of an inch to one inch and a half shortening of femur. Of those over eighteen one was perfect, the others ranging from three-eights of an inch to two inches short. One case was attended by gangrene and death ; one died from ether, and another was saved from death with difficulty.

Thus, of thirty-seven cases, including ten under eighteen years, there were only four perfect results. The case attended by gangrene, the death from ether, and other minor accidents, fill out anything but an inviting picture for immovable dressings. Certainly immovable dressings must make a bettur showing, before a sane surgeon can undertake a case of fractured femur in an adult, and expect a peifect result.-Micd. Reciicio, Detroit.

Treatment of Hemorrhoids.-Dr. William Colles (Dublin Four. Mcd. Sci., June, x874), having under his care a severe case of "bleeding piles" where all former treatment, including applications of fuming nitric acid, had been of no avail, concluded to try injection of perchloride of iron. For this purpose twenty minims of the ordinary tincture were. injected into each mass by means of a hypodermic syringe. The injection caused less pain than the nitric acid, and orle administration sufficed to remove the hæmorrhoids completely.

Difference Petween the Induced and Galvanic Currents. - These differences are great, and vitally important in any rational use of electricity. Tiney are well stated by Dr. G. V. Poore, London Lancet, May 9. 1874.

Respecting the galuanic current is is to be remembered : (1) If is con:tinuosly cvolucd, and aiways flows in ont definite dirction-from positive tc negative pole. (2) It has zuell marked chemical and thermal effects. This action is most marked at the negative pole. (3) It har elcetrolytic effects-passed through a compound liquid decomposition frequently results.
Resrecting the induced current it is to be remosenben $i:$ (x) It is momentary in duration. (二) Its dzrection is constantly changing-many times in a second, so that in esing it no attention need be given to the differnnt poles. (3) The chemical, thermat, and electrolytic effects are almost nil, so slight as to be entirely disregarded.
(4) The intensity and tension of the current are very great, so that it overcomes, without difficulty, any resistarice which the human body may oppose to it. (5) It causes trie contruction of healthy muscles far more effectually than the galvanic current. This is due to the constant interruptions and greater tension and intensity of the induced current-Detroit Men. Review.

Sir James Paget says the best wash for hardening the skin, to prevent bedsores, is one part of sweet spirits of nitre to three parts of water.

At the recent medical congress held at Marseilles, the majority of the doctors present agreed that the best possible diet for children was oatmeal porridge and sweet milk.

Oat Meal Farina as a Food for Infants. MM. Beaumetz and Hardy recommend very highly the use of oat-meal farina for the feeding of young children. According to these gentlemen, this farina resembles human milk most closely in its plastic and respiratory elements, and contains, in addition, iron and phosphates. It has, besides, the property of preventing or arresting diarrhea, which so frequently occurs in young children. Some infants of fuur to eleven months, who were fed upon this farina, were found to grow equally well with those who were nourished by the milk of a good nurse.

The Obstetric Swing.-The best contrivance is one which I shall venture to call my own, though it may, very likely, have been suggested before. It acts on the principle of directing muscular action, and consists of a sheet twisted loosely in the form of a rope, and tied together at the ends. Put the feet into the loop at the lower end, and push ; grasp the other end with the hand and pull ; the power exerted in this way is indefinite; it is the gymnastic paradox of trying to lift oneself, and may be practiced, till the sheet or back gives way. Its effect in labor is surprising, and is immensely appreciated by patients. It brings the body muscles into play. It relieves that distressing sense of helplessness, which all women feel, by enabling them to help themselves. It shortens labor. It saves the use of instruments. Allow me to recommend it to your readers.-Boston Med. and Surg. Fournal.

Intravascular murmurs are sometimes heard in the asteries and sometimes in the veins. They are systolic, but sometimes diastolic, in rhythm. In the arteries these murmurs may be strictly localised, or may be nudible over every part of the arterial system. In the veins; as a rule, they are audible everywhere, provided certain conditions are complied with, though they are permanently present in certain parts of the body where these conditions naturally exist. Such intravascular murmurs are of the most various significance, and can only he most briefly referred to now. Sometimes they signify serious lesion of the vessels themselves ; at others, nothing worse than some slight deformity of the chest, the result of rickets; and at still other times, only an alteration in the condition of the blood itself, which may arise from the most rious causes.-" On the Diagnosis of Disease of the Heart," by Gcorse W. Balfour, M D., F.R.C.P.E. (Edintursh Medical Fournal, Func, 1874.)

Ether as an Anthelmintic. - Prof. Vegel
announces a new application of this anæsthetic, namely, the destruction of tape-worms. The ether is enclosed in a gelatine capsule and swallowed. It soon becumes raporized in the stomach, (?) and the worm, then becoming stupefied, is easily it . moved by any of the ustal remedies, against which, when awake, it offers strong resistance.-Jurrui of Aptlicil Chemistry, August, 1874.

Bfladonna, ftc., in Incontinence of Urime in Chiluren.-In a paper read before the Obstetrical Society of Dublin, by Dr. Kennedy, he advocated the followins measures for the cure of this complaint :-
I. Training patients to retain their water in the daytime as long as possible
2. The use of the cold douche.
3. A moderate use of fluids towards night and a total abstinence from tia.

4 The internal use of belladonna in gradually increasing doses, till its specific effects ari produced. In referring to the action of this drug he mentioned one feature about it as regards children, namely, their small susceptibility to is action, and that they bear it very much better than adults.-(AToz Remedies.)

Sausages Colored ry. Aniline.-Amiline rd is used to impart to sausages a fresh and healthy appearance. It can easily be detected by the u: of alcohol or ether, either which substances dis solves aniline, but not blood. The use of aniliter red is severely reprehensible, not only from the fat that it is known to have caused the illness of entite families who have eaten meat colored with it, bat also because, from its mode of preparation, it fre quently contains arsenic, and must, therefore, at as a poison.-Atrer. C'hemist.

Choral as an Antesthetic During Labor.(The Lancet, February 21, I874.)-Dr. W. Plar fair has found that chloral has the immense adrar tage over chloroform, when administered durns labor, of not lessening the strength or intensity ? the pains, while at the same time remarkably dimir: ishing the suffering resulting from them. It is chiefly applicable at a period when we would na think of administering chloroform,--towards the termination of the first stage of labor, before the complete dilatation of the os, and when the shanf grinding pains perhaps produce more suffering and are less easily borne than the more forcing pains of a later stage.

He gives the drug at first in fifteen-grain doss and then in smaller quantity, increasing the inter vals between its administration, and this usullh keeps up a full and sufficient effect for hours. It need not at all interferc with the exhibition of

# The Canada Lancet: 

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## LOCAL MEDICAL ASSOCLATION:

We again feel impelled to urge upon our readers, the desirability of giving effect to the medical legislation of last session by the formation of Medical Associations. Wherever these associations do not already exist, the members of our profession owe it to themselves to immediately set about the formation of a society. Local Medical Associations are needed for several objects-all intimately connected with the advancement and best interests of the profession. For the cultivation and diffusion of science, for the purpose of friendly intercourse, and for facilitating the fixing of uniform or suitable charges, the Local Medical Association has become a necessity, and can now be made to have a legal existence. Knowing as we do, that many important towns and districts are yet without any association of the medical fraternity, we are compelled to declare that the real value of the medical legislation we have recently outained in this Province has not been properly estimated, or else it would have been more speedily and generally acted upon. And naturally enough where the adrantages of the Medical Art have been passed over, there we find the status of practitioners on the lowest level. A degrading competition takes the place of that true professional self respect which exacts a proper honorarium for the services of science and skill ; and we find conduct only to be expected of hucksters and pedlars, taking the place of that gentlemanly deportment and consideration, which the members of a liberal profession owe to one another. As an instance, we state it on the information of a letter from one of the smaller torns of Ontario, where as yet there is no associa-
tion of the medical practitioners, that there the effort seems to be to get practice by reducing fees, and cutting under a rival's charges instead of the legitimate method of giving all possible study and attention to the cases in hand in the aim of doing one's duty. Such conduct is very reprehensible. Overcrowded as the profession may accidentally be in some of the towns of this country, there is no reason why the low arts of competing tradesmen should be adopted by professional men. There will be work enough for all to do, at properly remunerative prices, if those who overcrowd our cities and towns will only take the proper steps-say, either by removing to a locality where actual openings exist, or by patiently waiting their time in making a reputation in the place where they commence their carcer. Nuthing can be more generally true than that the public, estimate medical men pretty much as they estimate themselves, and that the cheap man will come to be looked upon as an inferiorly qualified man, and therefore only to be empluyed in the most trivial cases. The tendency of a lowering competition in medicai life, is to defeat the object of those who follow it.

The cultivation of a proper professional spirit, would seem to be greatly needed as a remedy for such a state of things. The true professional spirit can best of all be cultivated, we think, by the influence of medical associations, such as those contemplated and established in a few.places under the Medical Act. Hence, we persistently advise their formation, and once more suggest that preliminary meetings should be held in the towns, counties and townships where such associations do not already exist.

## METICAL EVIDENCE IN CRIMINAL CASES.

We have recently had prominently brought before our notice the gross injustice inflicted on members of our profession, by the absence of any provision for compensating them for their medical evidence, expenses of travel and maintenance, as also for the loss of practice fur the time they are kept waiting on the court, in many instances extending to a week. When the subject is brought before the Judges their remarks on the unfairness of the present condition of things is all that we
would expect from the liberal and enlightened men who grace our Canadian Bench, but amounts only to a barren sympathy, unless the unfortunate medico is so necessitous as to be compelled to make the application for out-of-pocket expenses in forma pauperis; the Judges can then give an order on the County Treasurer. It is hardly necessary to say that the expenses are never sought by so humiliating a procedure. In criminal cases, atten dance is compelled either by the process of subpœna, or the witness is bound over when first exam'ned either by the Magistrate or Coroner, and he is liable for disobedi nce, to an attachment, or a committal for contempt. In the cases of Medical men, no expenses are allowed, the witness is bound to appear unconditionally. There can be no doubt of the propriety of enforcing the attendance of medical witnesses ; there can be as little doubt of the justice of adequately remunerating them. Having briefly pointed out the injustice of the present condition of affairs, let us examine the circumstances essential for affording $c$ olete and accurate testimony. The first requisites are veracity and attention ; the former is essential for every species of testimony, the latter is particularly so for that of a medical witness, who must not only state truly what he has seen, but his statement should rest on an examination of the facts, without precipitation, and with a knowledge sufficient to prevent him from forming false opinions. The next requisite is memory, but as this may prove fallacious, either from the weakness of the art of perception, independent of inattention, or from the lapse of time, every circumstance in the occupation of a medical man likely to involve legal inquiry, should be committed to writing, which, besides preserving an unvarying record of the fact, enables him to refresh his memory on collateral incidents in proof of the fact in question, by associations which are almost inseparable from it. Besides, written records prevent the possibility of imagination playing the part of memory, a circumstance which is apt to occur when no records of facts are preserved. The last requisite essential in a $1:: \quad \because \mathrm{cal}$ witness is a condition which implies, that strength is added to his evidence by education, and a sense of greater responsibility and more sensibility to honor, than are ustailly attributed to witnesses with the ordinary level of moral and intellectual qualities. Such being the requisites necessary for obtaining cor-
rect and satisfactory testimony from medical wit. nesses, the attainment of which has involved years of stidy and a iarge expenditure of means, is it not a disgrace to the Legishature, that while properiy enough compelling the attendance, they neglect to provide adequate remuneration for such skilled testimony? We have six members of our profession in the Ontario Legislature ; they can surely have no difficulty, on a proper and temperate re. presentation of this crying grievance, in obtaining the redress we are so fairly entitled to.

## THE INJECTION OF PULMUNARY CAVITIES.

Professor Pepper of Philadelphia, who contributed a paper to the Philadelphia Mcalial Times in March last, on the local treatment of pulmonary cavities by injections through the chest-wall, has given the results of further experience of this method of treatment in an article in the October number of the American Fournal of the Medical Sciences. We pass over historical references as to the early suggestions of, and priority in the resort to this method of treatment, to state in abstrach, that ne uses a very delicate steel canulated needle, like the finest hypodermic needles, but about three inches in length, and an hypodermic syringe capable of holding twenty-five minims. He at first used an aspirator, but now prefers the instrument mentioned. Selecting a point at which the signs of a cavity are most intense, he punctures the chest-wall, previously affecting anæsthesia, by freezing. There is little or no pain except when the filaments of a nerve are pricked, when tingling radiating pains are felt. The time occupied in an injection does not exceed thirty seconds. The depth to which it has been necessary to penetrate has varied in different cases from one and a half to tho inches. Prof. Pepper has only used dilute solutions of iodine in ioide of potassium (Lugol's Solution,) and says that the results of injections of iodine have been so satisfactory that he has felt indisposed to use any other substance, though he considers it probable that other substances may bi found preferable in some cases. Twelve minims of the liquor iodini comp. are diluted in a drachm of warm water, and of this solution twenty five minims are injected about once a week. Here
ports six cases treated in the Philadeìphia Hospital, three of which were not benefitted, the other three being considerably improved. IIe chains that the continuous treatment of lung cavities by repeated injections by means of delicate canulic may be conducted without hemorrhage, traumatic iritation, or interference with internal medication and hygienic measures. The cases which are best adapted for this local treatment are those where a single, superficial and circumscribed non-tuberculous cavity exists; but even where there is implication of the rest of the lung, or incipient disease of the opposite lung, some benefit may be expected. The mode in which such local treatment does good is chiefly by altering the character of the morbid action in the walls of the cavity, diminishing the amount of purulent formation. as well as the degree of hectic irritation and the danger of constitutional infection. A certain amount of rest is secured for the walls of the cavity by the marked relief afforded to the cough. Further, the treatment favors the cicatrization and contraction of arities. He finally maintains that this mode of treatment possesses a certain degree of positive clinial value, since, during its use, uniform improvement to an exceptional extent, has taken piace in both the general and local conditions of the patient.

In a matter of such immense importance as this question of the cu:ability of lung cavities, the interest of Prof. Pepper's paper will not be underrated. Without being over-sanguine concerning the results as yet incomplete though promising, the experimental tests recorded, warrant a further and extended trial, which the practice will undoubtedly receive.

Presentation.-Dr. Arch. McLay, of Bryanston, Middlesex, was the recipient of a very handsome present of a gold watch, valued at $\$ 175$, by the good people of the village and surrounding country. On the eve of his departure for Iona, Elgin, a large concourse of friends assembled at the Drs. residence, where a beautiful spread was prepared by his lady. Altogether it was an agreable affair, and is a token of the high esteem in which the Dr. is held by the people in this vicinity. He carries their best wishes with him to his new home.

Mutual Benefit Assolintion.-A mceting of the Medical Profession of Toronto was held on the 3oth of September, for the formation of a Mutual Benefit Association. Dr. Winstanley was chairman, and Dr. Bridgman acted as secretary. It was moved by Dr. Canniff, secouded by Dr. Pyne, and carried, that this meeting deems it expedient to form a Mutual Benefit Association, and that a committe be appointed to preprare a prospectus to be submitted to the profession tor their approvai at an early date. Drs. Winstanley, Agnew, and Bridgman were appointed a committee. Moved by Dr. 1 ync, seconded by Dr. Rosebrugh, that IDr. Bridgman be authorized to advertize the intention of such an organization in the Ontario Guzcte, and elsewhere, as required by law. A vote of thanks was passed to the chairman, and the meeting adjourned till the 9th October, at eight o'clock, p.m.

Effects of Chloroform on the Brain.-At the late meeting of the British Medical Association, the subject of chloroform-narcosis, was under discussion, and the remarks of Dr. Marion Simms and others were given in support of the view that this condition is due to anæmia of the brain. In reference to this Dr. Bedford Brown in the Med. Times (Phil.) for October publishes a letter in which he claims to have demonstrated this fact so long ago as 1860, in a case of fracture of the skull published in the American Fournal of Medical Sciences. In this case, owing to the severity of the fracture, the anterior lobes of the brain were fully exposed, and the action of the chloroform could be readily seen, and was in his opinion sufficient to establish the fact that cerebral anæmia is the invariable result of the action of chloroform. In view of this fact, it is advised in apparent death from chloroform to place the head downwards while efforts are being made to establish respiration.

## Preservative for Hypodermic Injections.-

 Dr. McPherson (Phil. Med. Times) recommends the following as a preservative for hypodermic injection solutions : chloral hydrate, two grains; acetic acid two drops ; distilled water half an ounce. In this menstruum any alkaloid may be dissolved or suspended in the usual proportions, and with a certainty of its keeping for several weeks without change.Arsenic in Asthma.-IIr. C. Paul (American Four: Mid. Scichtes, Jan. 1874,) reports several cases of spasmodic asthma which were greatly benefilted by the administration of arsenic. He sajs the remedy must be persevered in, until constitutional effects are produced before any benefit can be expected; it should be thoroughly tried. It has suceecied after all other drugs failed. He gives Fowler's solution in from ten to fifteen minim doses, after meals, and in some cases he uses it hypodermically.

Rationale of Transfusion. - It has often been wondered at, that when patients had lost large quantities of blood, the injection of a few ounces should be sufficient to save life. Dr. Dalton, in discussing this subject recently, said he did not think it at all strange. He compared the human system to a machine in which there is a balance-wheel, the object of which is to carry the piston over the "dead point." Without this, if there were much resistence, the engine would stop; so the injection of even a very small quantity of blood, after hemorrhage, when the human machinery was about to stop, might keep it in motion and life.

Partnersmip.-By reference to our advertising columns, it will be seen that Drs. Lizars and Hillary of this city have entered into partnership as operative and consulting surgeons. 'They have opencl an office on King street west, No. 105. Thesi gentlemen have been long in practice, and have had considerable experience in surgery. Dr. Liants has for many years devoted himself almost exclusively to surgery, and Dr. Hillary was for a long time in the army service.

Books, Instruments, \&c.-Being anxious to further the interest and convenience of our many subscribers in every possible way, we would take pleasure in making selections of books, instrument: and the like, and forwarding them by express. Parties will thus be enabled to save the ten per cent. discount on all cash purchases. Our friends need not feel at all backward in asking any favor that we can bestow in this way.

Olive oil, if administered promptly, is said to be an antidote for strychnia.

Please. Remitt. We enclose bills to all of ont subscribers who are in arrears, and earnestly hope they will respond promptly. If any should neglect to remit we will draw upon them thro" ${ }^{1}$ the agency of the Express Office after the 15 th inst.

Chloroform During; Sleep.--Dr.W. R. Cluness reports in the Paciftic Alidital and Surgial Fiunnal two cases in which chloroform was administer. ed and anæsthesia produced during sleep. Onc case was that of a girl of eight years, and the other a girl two and a hatlf years of age. In each casea surgical operation was performed. Neither of the patients offered the least resistance or showed any signs of consciousness in passing under the intuence of the chloroform.

Headache after Drunkenness.-Bytontr commends "sermons and soda water." The Rezut de Therapentigue says: Take of solution of acetate of ammonia, tincture of bitter orange-pel, syrup of bitter orange-peel, each 20 parts; water 500 parts. To be given in repeated tablespoonfl doses.

Epilepsy.-Dr. Crichton Browne's success nith the nitrate of amyl in arresting the further progies of this distressing malady when the aura has once declared itself, justifies the more frequent emplor: ment of the remedy in question, as well as thi further recurrence to the subject If it should tum out generally efficient, it would in many cases prore a most desirable resort.

Comphmentary.-A reception was given to Prof. Erichsen, the eminent surgeon and author, by the Medical Department of the University d New York. last month on the occasion of his 温 to that city.
He also visited Philadelphia and was the rec pient of a complimentary dinner from a numberof medical gentlemen, including most of the promi: nent medical teachers and authors.

## DIED.

At St. Hyacinthe, Que., on the 17 th of Seph Dr. Duvert, in the 54th year of his age.
At the Toronto General Hospital, on the 8th ult., in his 33 rd year, Henry Strange, M.D., for merly Registrar of the Medical Council.

## 2faw exnistumants.

## ITPARAIUS FUR TRANSILSION

The tollowing wood-cut engraving, shows a new fom of apparatus for the transfusion of blood, by il Collier (Paris.)


By a very simple and ingenious contrivance the ralves which generally form part of these instruments,and which are so objectionable, are dispensed with. The extremity or nozzle of the syringe fits closely in a short cylinder, which communicates on the one hand with a funnel-shaped cup or reservoir, into which the blood is received, and on the other, with the injection tube. There is a lateral opening in the nozzle of the syringe, which corresponds with the opening, at the bottom of the reservoir. When the syringe is filled with blood, drawn from the reservoir, it is rotated one-fourth of a circle so that the lateral opening in the nozzle, shall correspond with the orifice of the injection tube, and the blood is forced on. The syringe is then rotated back again towards the reservoir, and
refilled and so on, the movements being effect. ed with the greatest precision. The syringe holds about 10 grammes ( 154.3 grs ) so that the operator can tell exactly, how much blood he has injected. This instrument may also be used with facility for injecting medicinal substances into the veins as in cases of tetanus, and the like, where the diffi culty of swallowing fluids is very great. It is exceedingly simple in its construction, and is likely to come into general use.

## Taranto dyospital dienorts.

Ditailat Analysiv of the Disetase ir Ailmonts for ahich pationts reciaced tratmont, for the year ind. ins Scpt. 3olh, 1874.

> Inserse. Male Female.


| lhiskasi. | Malc, Female. |  | 1)iseast:. | Malc. | Fem2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Eerema | 3 | 1 | Marasmus | 2 | 0 |
| Epilepsy. | 5 | 2 | Neuralgia .................................. | 3 | 2 |
| Emphysema | 2 |  | Necrosis.................................. | 7 | 4 |
| Epistaxis | 4 | 1 | Occlusion of Vagina................... | t | 1 |
| Empyema. | 2 |  | Orchitis ..................................... | 5 | 0 |
| Enlarged Spleen | 4 |  | (Edema . | 5 | 0 |
| Epithelioma..... | 4 | 3 | Pneumonia .............................. | 8 | 7 |
| Encephaloid | 1 |  | Polypus ................................... | 2 | 1 |
| Erysipelas | 6 | I | Puerperal Fever ......................... | 0 | 2 |
| Exostosis | 2 |  | " Mania ......................... | 0 | 1 |
| Excision of Eyc. | 5 | 2 | Phymosis .............. .................. | 4 | 0 |
| Fxcision of Hip Joint | 1 |  | Paraplegia ................................. | 7 |  |
| Fracture.............. | 40 | 13 | Psoriasis ................................. | 2 | 0 |
| " Comp... | 3 | 2 | Phthisis | 30 | 14 |
| " Comp. Com | 4 | 2 | Pleurisy ............................ ....... | 4 | 2 |
| Frost Bite............. | 10 | 2 | Periostitis ............................... | 2 | 2 |
| Fever, Typhoid. | 70 | 19 | Procidentia Uteri |  | 4 |
| " Scarlet... | 15 | 12 | Peritonitis.... | 2 | 0 |
| Febricula.. | 6 | 3 | Pediculi ... | 4 | 3 |
| Fungus Hrmatodes | 1 | 3 | Remittent Fever | 3 | 2 |
| Gonorrhœa. . | 9 | 3 | Rubeola ................................... | 4 | 3 |
| Gleet. | 4 | 3 | Rectal Stricture ........................ . | 2 | 1 |
| Goitre | $\bigcirc$ | 1 | Rheumatism | 20 | 15 |
| Gun Shot Wounds. | 2 | $\bigcirc$ | Scabies ....... | 4 | 2 |
| Gastritis | I | 0 | Syphilis .................................... | 29 | 12 |
| Hæmaturia. | 2 | 2 | Sycosis ..................................... | 2 | 0 |
| Hæmorrhoids | 3 | 2 | Sciatica | 2 | 2 |
| Hemorrhage | 6 | 3 | Scalds | 2 | 1 |
| Heart disease. | 5 | 3 | Synovitis. ...... | 2 |  |
| Hepatitis | 1 | 1 | Subinvolution. |  | 2 |
| Hypochondriasis | 2 | 1 | Scrofula. | 1 | I |
| Hysteria. | $\bigcirc$ | 3 | Spinal Curvature........ ................ | 2 |  |
| Hernia | 6 | I | Sprained Ankle........................... | 3 |  |
| Hemiplegia | 7 | 6 | Spasm of the Glottis..................... | 1 |  |
| Hromoptysis | 2 | 1 | Tumor ............... | 9 | $i$ |
| Hydrocele.......... | 1 | $\bigcirc$ | Typhoid Pneumonia................... | 4 | 1 |
| Hypertrophy of Liver | I | 2 | Tetanus................................... | 2 |  |
| Hydro-peritoneum... | 1 | 1 | Tracheitis ... | 1 |  |
| Influenza.. | 1 | $\bigcirc$ | Tonsillotomy ............................ | 3 | 1 |
| Iridectomy | 7 | 6 | Ulcers. .................................... | $3{ }^{3}$ | 21 |
| Iritis ........ | 4 | 2 | Urethral Stricture........................ | 5 |  |
| Icterus | 3 | 2 | Urticaria.. | 2 |  |
| Ichthyosis | I | $\bigcirc$ | Vulnus . | 19 | II |
| Impetigo | I | 0 | Vaginitis....... |  | 1 |
| Insolation | 1 | 0 | Vesico-vagrinal fistula |  | 2 |
| Keratitis | 6 | 2 | Varicella .............................. . . . | 1 | 1 |
| Keratonyxis | 2 | 0 | Variola.. | 3 |  |
| Knee joint disease |  | I | Varicose Veins. . | 7 | 6 |
| Herpes Circinatus | 4 | 1 |  |  |  |
| Luxation . . . . . . . . |  |  |  |  |  |
| Leucorrhuet.... | 0 |  | Patients remaining in Hospital October |  |  |
| Locomotor Ataxia | 2 | 0 | Ist, 1873-Maies. |  |  |
| Leucocythemia. | 1 | 0 | Do. do. Females................ |  | I |
| Lupus ......... |  | $\bigcirc$ |  |  |  |
| Mania .- |  | 2 |  | 6 |  |
| Metritis ............ | 1 | 1 | Admitted fromithe rstioct. to the |  |  |
| Morbus Coxarius | 4 | 2 | 3oth Sept., 1874-Males | $\cdots \quad 62$ |  |
| Menorrhagia.. | $\stackrel{ }{0}$ | 2 | Do. do. Females........ |  |  |
| Masturbation... |  | 3 |  |  |  |

Total number under treatment at same time-Males............................. 672
1). Females. ..... 266
Discharged during the year-Males.... $\mathbf{5 1 I}^{21}$ Do. do. Females.213
734
Died during the year-Males............ 61
Do. do. Females......... 19
Remaining in Hospital on the 30 th Sept. 1874 -Males.................. 90
[io. do. Females................. 37

Faterns who received medicine and advice gratuitously
P. S.-Patients (not incurables) are admitted on payment of 40 cents per diem, to the general rarito; to private wards at $\$ \mathrm{r}, 00$ per day. This applies to patients from any part of the country.

## Booli glotits.

Materia Medica for the use of Students. By John B. Biddle, M.D., Jefferson College, Philadelphia. Sixth edition, revised and enlarged. Philadelphia: Lindsay \& Blakiston. Toronto: Hart \& Rawlinson.
It is only about a year since the 5 th edition of this work was issued from the press. The present edition has been carefully revised ; some parts rewriten, and much new matter added. The text has been illustrated wherever it appeared necessary ordesirable is do so, representing some of the most important plants, apparatus for transfusion, aspiration and atomization. It contains in a condensed form all that is valuable in nateria medica, and furnishes the medical student with a complete manial on this subject.

Clinical Uses of Electricity. By. J. Russell Reynolds, M.D., F.R.S. ; University College, I.ondon, Eng. Second edition. Philadelphia . Lindsay \& Blakiston. Toronto: Hart \& Rewlinson.
This work consists of a series of lectures, delivtred by the author during the summer of 1870 in University College, London. They first appeared in the Lancot; and they have since undergone reision at the hands of the author. The book contains about roo pages, and is chiefly devoted to ascertained facts relating to the clinical uses,
application and effects of electricity in the diagnosis and tre:tment of disease. It is thoroughly reliable as a guide, very concise, and will be found exceedingly useful to the general practitioner.

Galivano-Therapeutics.-A revised reprint of a Report made to the Illinois State Medical Society by Dr. Prince. Philadelphia : Lindsay \& Blakiston. Toronto: Hari \& Rawlinson.
This work is somewhat similar in size and substance to the preceding, except that it deals more with the mechanism of the battery, and the practical uses of electricity in the treatment of disease, electrolysis, \&c., \&c. It has been very favourably reviewed by the American medical press. It is an excellent résumé of the present state of the science and its arplication to disease.

Wythes Pocket Dose Book. Eleventh edition, revised and improved by Joseph H. Wythes, A. M., M.D. Philadelphia : Lindsay \& Blakiston. Toronto: Hart © Rawlinson.

Ligation of Arteries. By Dr. L. H. Farabeuf. Paris. Translated by John D. Jackson, M.D., Danville, Ky. Philadelphia: J. B. Lippincott, \& Co. Toronto: Willing \& Williamson.
We cannot commend this little volume too highly. Everything seems complete about it. The descriptions of the various operations, and the minutest details necessary, are given in the most clear and concise manner. The woodcuts are well executed, and the whole work does credit alike to the author and publisher. Nothing is omitted that can be of any service to the surgeon. Torsion of arteries is also treated of, and a forceps for this especial purpose deliniated. The author strongly recommends students to make themselves thoroughly familiar in searching for and tying arteries in the dead subject, if they ever expect to succeed well on the living body.
A Practical Treatise on the Diseases of Women. By T. Gaillard Thomas, M.D., College of Physicians and Surgeons, New York. Fourth edition. Thoroughly revised, with 191 illustrations on wood. Philadelphia: H. C. Lea. Toronto : Hart \& Rawlinson.
This work is so well and favorably known to the profession that any lengthened notice is unnecessary. It has gone through four editions within a short space of time, and has been translated into French, German, and Italian. The present volume has been carefully revised, but only a small amount
of new mater has been added. The work still holds a tirst plase as a reliable guide to the diagnosis and treatment of diveases of women. We cannot commend it too highly:

Esemthe or me Princ!pes and leacties of Mintens: A Handwok for students and Practioners. liy Henki Harinhervif, M.D., Protessor of Hyguene in the Vinisersity of linn sylamia, ice. Fourth lidition, thoroughly Revised. In one handsome volume, ros.al 12 mo . Philadelphia: H. C. Lea. Toronto: Willing © Williamson.
This interesting little compendium has now reached the fourth edition. Many parts of the work have been revised and rewritten, and illustrations added where tecy can be of service. The work has been much improved, and now torms one of th. most complete manuals on the practice of medicine in the English languase
 dephia: Lindsay \& Blahiston. Purunto Willing © Williamson.
The: Physician's Visitinc; List for is75 has just been received. This visiting list las been published by Messrs. Lindsay al Bhakiston fur upwards of twenty sears, and has met with universal approval by the profession. It is exccedingly convenient, can be carried in the breast pocket, and will save the price of itself 100 times over in a year. We would not be without it under any consideration.

Price for 25 patient's weekly. . . . . . $\$ 1.00$
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Interleaved Edition \$1.50 and \$1.75.
Atmospheric Electricity and (zune; their relation to health and disease. By George M. Beard, M.D. New York: D. Appleton \& Co.

Nfw Method of Treating Malignant Tumurs by electrolyzing the base. By the same.

Tinnitus Alrium, or Nutses in the Ears. By laurence Turnbull, M.D., Howard Huspital. Philadelphia: J. B. Lippincott.

Deaf-Mutism, and the Method of Educating the Deaf and Dumb. By the same.

The American Journal of the Medical Sciences for Oct., 1874. Edited by Isaac Hays, M.D. Philadelphia : H. C. Lea.

Thfrapelthe and Mitiria Menca. Ahren Sthisf, M.I., Professor of I'ractice of Medione, Uniserity of Pemsylsamia. Fourb liduion, thoroughly revised and cularged, in tho volumes. Philadelphia: H. C. Icea : Tormato: Hart © Kawlinson.

Cinich. Iftheris on Vimets Impormat Dhensts. By N. S. Daviv, M.A., M.D., Prof. of Pructie of Medicine, Clicago Medical Col lese Socond ldition. Philadelphia: H. C Lea. Toronto: Hart © Rawlinson.

## MISCEILIANEOUS ITEMS

(Ozona. Dr. lender ozonises chambers ver successtully by means of a mixture of the protocid. of manganese, or of the permanganate of potas and oxalic acid. Two spoonfuls of this powdef moistened with twice the amount of water, and trifle more of water cevery two hours, emits o200t frecly. Gold and silver, however, encepted, it of adises metuls rapidly. Ar hizio di Meilitina Chit ursia al Jiche:

On the Properties of Mle scakine.-M. Pre rost directed the nutice of the Sucicte di Biolegit 1 Sth Apral, to some physiological properties of mus carine, the alhaluid or glucoside of Ammanif musiatria. It is a very violent poison. It arrad the heart in diastole, unlike digitaline, which arress it in systole. Schmiedeberg indicated its anta onism with atropine. Muscarine increases the foo: ot saliva, due citly' excitins the salivary glands. excites the lachrymal glands, also promoting th flow of tears. Atropine will check the salivatlo induced by muscarine.

Treatment of Typhoid Fever.-Dr. Compín finding it difficult to reconcile patients and the friends with the practice of cold immersinen in feve had recourse to the pardonable artifice of addin a few drops of phenic acid to the water befor hand. This premised, he practised aspersion opt the entire surface with the utmost auvantage, the lowering the fever, and inducing such relief that th. sufferer himself was anxious for its repetition in few hours. The patient and his friends ascribed relief to the phenic acid, and the practitioner he the satisfaction of securing the great advantages. cold aspersion without running counter to their pre judices.-L' Union Medicale.

Acquitted.-Dr. Nash, of Pictou, who ma charged with being implicated in an abortion case has been honorably acquitted.


[^0]:    * Lecons sur les Maladies du Systeme Nerveux. Paris, 1873. 2 me Serie.
    + St. George's Hospital Reports, vol. iv.

