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A MONTHLY JOURNAL OF BRITISH AND FOREIGN MEDICAL SCIENCE: CRITICISM, AND NEWS.
U. OGDEN, M.D.
antron.

R. ZIMMERMAN, M.B., L.R.C.P., London toy Church Street, Thronto, Currenpmading kijiter

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dis All Communications, Letters and Exchanges must be addreased to the Corresponaing Editor,
TORONTO. NOVEMBER, 1876.

## Blertions: eatudiothe.

## CLINICAL IAGTURE ON SPINAI.

 HAMORRHAGE.BY EDWARD LON(: FOX, M.D., Physician to the Bristol Royal Iutirmary.
Gentlemes,-The patient you have just seen is a labourer, aged thirty-four, of temperate habits. He hats always had good health until two months ago. He was then carrying a heary weight on his back up : ladder. and felt suddenly a pain across the loins. His left hip immediately gave way under him: he was unable to lift the left foot from the ground. At the same time his urine began to dribble away from him, and on the next day the freces passed unconsciously.

On admission, there was toumd considerable wasting of most of the muscles of the left leg. He could bend the left knee but not the left hip. He was able to stand with a little help, but manifestly depended chietly on the right leg. His mine was passet anconsciously, and he had no power over the accelerator urine. There was entire paralysis of the sphincters of the anus. He had a bedsore as lange as a crownpiece over the sacrum. His digestion was impaired. There was slight hyperasthesia over the paralysed leg, and complete atisence of galvanic excitability. To tenderness or pain down the spinal columm. The temperature was a litcle raised, probably from che irritation of the bedsore. The temperature in the left groin one-fifth of a legree (Fahr.) ligher than in the right. Urine ammoniacal and purulent.

He was given strychnia and quinine, the bedsoreattended to, a nutritious diet ordered, and
in a very short time he improved to the extent of being able, in bed, to move the leg very freely, to control completely the sphincter ani, and to use the accelerator urine, and, perbaps as an iudirect result of doing so, the urine did not dribble away so incessantly. The bedsore got well, and the patient was able to digest a nutritious diet.

We have here-

1. Almost complete motor paralysis of the left leg, with slight hyperesthesia, and with extinction of galranic excitability.
2. Complete paralysis of the sphinter vesicae and the acerlerator urine and sphincter ani.
3. The occurrence of these paralytic symptous immediately after the accident.
4. The gradual recovery from the motor paralysis of the left leg; complete restoration of the sphincters of the anus, and partial recovery after one month's treatment (three months after the injury) of the accelerator urine and sphincter vesice.
5. The sequence of eystitis, gradually alleviated hy small atstringent washings of the bladder.

The diagnosis is gathered from the mode of access on the one hand, and on the other from the considemation of the parts pazalysed. The mode of access was absolutely sudrlen. A strain on carying a heavy weight: a pain low in the back and along the few inches of the great sciatie nerve on its exit from the spinal canal ; loss of power over the anns and bladder in the course of a few hours; the gradual becurrence of ammoniacal urine and ropy parnitht macus fron the bludder, as a vesult of the inability of fully emptying this organ.

The consideration of the parts paralysed enables us to fix pretty accurately upon the seat of lesion. Thus, neither the upper extremities nor any of the muscles engaged in respiration are involved; the lesion, therefore, must be below the last dorsal vertebra. The first lumbar gives off the ilio-hypogastric and ilio-inguinal nerves; the second, the genito-crual and external cutancons; the third, the anterior crumal, dividing into the mithle cutancous, the internal cutaneons, anil the long saphenous: the fourth, the ohturator, supplyiag the atductor muscles. Now, not only was there in this case no paralysis of the cutameois nerves, but, eren whilst unable to use the leg in any other way, the patient retained the power of hinging it towards the middle line, showing that the obturator was unaffecterl. Part, however, of the fourth lumiar, with the fitth lumbar and the first four sateal nerves, unite to form the great sciatic; the small sciatic and the pudic nerves, supplying not only most of the muscles of the leg and foot, but aiso the accelerator urine ; whilst a branch of the fourth sacral supplies the sphincter ani. This muscle is also supplied from the inferior hemorrhoidal branch of the pudic nerre. The sphincter vesice is supplied mamly from the sactal plexus, terived chiefly from the four upper sacral nerves. Both the sphincter resicas, and the external and internal sphincter ani, the latter especially, derive some of their nervous supply from the hypogastric plexus of the sympathetic; and this plexus. again, is mingled with nerves from the fourth and fifth iumbar ganglia and the four upper sacral ganglia, with nerve connections with the fourth and fifth lumbar and the four upper sacral nerves. The seat of lesion is therefore tolerally plain. It is unilateral. contined to the left side, and situated not above the origin of the fourth lumbar nerve. if

Such, then, being the mode of access, and such the position of the lesion, what is its nature! It cannot be spinal meningitis, for this lesion is not accompanied by paralysis; nor. does the patient lie in any peculiar position, showing an instinctive dislike to being moved from fear of pain in the back and limbs that such movements would cause. It cannot be myelitis, though myelitis sometimes follows
hæmorrhage, becuuse the access was so sudden, the paralysis so one-sided; and there is no priapism. It camnot be congestion of cord, for, again, the mode of access is too sudden, and congestion only leads to very partial paralysis, and that of a paraplegic form.

I would say in all fairness that Professor Leyden throws douht on the existence of spinal congestion as a lesion causing symptoms, from the difficnlty in verifying it by post-mortem observation. Though doubtless congestion is difficult of proof, it is equally impossible to disprove: and the mansient nature of the paralysis supposed to follow it, and its recovery unter remodies known to influence the calibre of the vessols, such as ergot, helladoma, strychnia, etce, are reasons for accepting the real existence of this lesion.

The absence of ronic spasm, and the presence of paralysis, prevent any thoughts of tetanas. There is no tenderness down the spine; and this symptom is never absent in the so-called spinal aritation. Here again the paralysis is a diagnostic mark. The pazalysis would he at once too sudden and too presistent to depend on pare shock. Under such circumstances the symptoms would scarcely be unilateral ; :and did they oocur with such intensity from shock; whether they may mean spinal congestion, spinal anmmia, or some peculiar cell-change of a temporary nature they could not well presist for sereral weeks, unless the shock had determined myflitis, meningo-myelitis or hemorrhage.

Locomotor ataxy differs from the lesion be fore us in that its progress is extremely gradual ; it is accompanied with no true paralytic symptoms affecting either the limbs or the sphincters until a very long time his elapsed, if ever ; and it is manifested by a want of co-ovdination that is absent in our patient. The ocular phenomena, also, so frecunently met with is locomotor ataxy, are wanting in the case before us.

The suddenness of the access of paralytic symptoms, with the marked improvement of the patient under treatment, entirely forbids the idea of tumow of the spinal cord. And lastly, the absence of reaction in the paralysed: muscles to galvanic stimulus is sufficient proof that the lesion is spinal, and not cerebral.

We are therefore led to the almost certain diagnosis of slight bemorrhage of the spinal pia mater on the left side of the cord, about the level of the origin of the fourth lumbar nerve, dripping guttation downwards, and never of sufficient amount to pass round the cord to the right side.
I.s the prognosis favonable or otherwise! To form a right opinion on this point, we have three main data-the position of the spinal cord affected; the nature of the lesion; and the effects of treatwent so far as it has gone. We have, however, to keep in remembrance the effects of the lesion on particular orgins, and on general nutrition, ant also the secoudary sequele on the spinal com that are sometimes the consequences of hamornage. The position of the lesion is so far satisfactory, that it is too far down to cause any interference with the respiration. As a general rule, the higher in the cord the lesion, the more disastrous it is. It is alss a good point for prognosis, that the paralysis is unilateral as regards the limbs. This being so, makes it probable that some of the nerves supplying the bladder and the sphincters of the amus are also unaffected. The nature of the lesion-hemorrhage, and that, too, to so limited an extent that it has evidently not affected the right side at all--is itself a satisfactory point. A small hamorrhage ought, prima facic, to be absorbed, and absorbed within a period that would render important secuele in the cord somewhat improbable. And then again, the effects even of very limited treatment endble one to speak, nut with positive assurance, but with fair hope, of a good result. The state of the patient you have already beard and seen for yourseives; the sphincters of the anus have wholly recovered their power, and this was marked a few days ago, when accidently the patient was purged ten times after drinking too much tamarindtea; the leg can be moved in every direction, and although locomotion is not easy, yet marked progress has been made. Again, the patient has regained considerable use of the "accelerator mine, and sume at least of the sphincter vesica.

On admission, however, we found a small bedsore over the sacrum, and you know how
serious such a lesion frequently is, when the spinal cord is in any way affected. The bedsore is now nearly well, and this is another proof of the gradual clearing up of the intemal lesion.

One thing still remains, and is enough of itself to impress a very serions aspect on the case, and materially to influence the prognosis -I mean, of course, the cystitis. The man passes a highly ammoniacal wine; and, on standing, this urine deposits a thick bed of epithelium, pus, and triple phosphate erystals. It way be that this cystitits has existed from a very early period of the illness-within, perhaps, a few days of the accident; it so, it has been probably increasing in intensity during the two months hefure he submitted himself to treatment. Not only is it a grave condition by itself, but, as you know, it may indirectly induce that degencration of the kidney (beginning tirst in the pelvis, and progressing backwards into the renal structure) which we know by the name of surgical kidney. As lung as the trime is so alkaline, we are quite unable by the microscope to determine whether or not the kidney is yet affected ; war ignorance on this point at the present time, and our fear of such a renal affection in the future, mast necessarily make our prognosis. otherwise favourable, extremely guarded.

Aud, lastly, the pressure of a cloi of blood will sometimes produce myelitis ; and although the seat of the hemorrhage in this case is below the cord, we might get an equally disastrous effect by the pressure on the nerves of the canda equina. I show you a plate of a section of cord in which destructive myelitis was set up after an accident, in which the bodies of three vertebra were more or less fractured, and a large hemorrhage into the spinal cord had resulted. Opposite the stat of hæmorrhage, and pressed upon by a clot, the cord was inflamed in almust its whole depth. Such a condition would be improbable in the case before us, all the more so that the patient is improving : but its possibility ought somewhat to affect our prognosis.

Now as to treatment. There are two principles to be kept in view in the treatment of such a case-first, to place the patient in the best pos-
sible circumstances for the obsorption of the hemorrlage; and, secondly, to remedy the effects of the lesion. To obtain the first result, you have seen that we have simply endeavoured to keep the patient in tolerable health. Slight tonics and strychnia, good food, care against constipation, gentle exercise of the aftected leg, turpentine dressing to the bedsore, and at water-cusiniou to lie on, have been the main deats of our care of him. But in attempting to remedy the effects of the lesion on the badder it has boen neeessary to do more; and here I have urged attention to the minute details insisted upon so wisely by Sir Henry Thompson. It is expedient to insure the passage out wards of the muco-purolent debris with which the membrane of the bladder is covered, and also to effect the complete emptying of this organ. For this parpose the hadder is every second day washed out under certain specià conditions -(1) that not more than one ounce of fluid be used ; ( 2 ) that the washing is done with the help of a non-metallic catheter-you have seen that the accidental substitution of a metallie instrument on one occasion caused vesical hemorrhage and considerable irritation; (3) that when astringents are used (and we did use them here after three or forr injections of tepid water) they should be of the mildest character. Our patient has had acetate of lead lotion in the proportion of a quarter of a grain to the ounce of water, gradually increased to : grain and a half. He is also taking now an infusion of the Triticum, repens. Under this treatment he feels no pain from distension of the bladder, nor from the nature of the apphication used.

He is getting well--slowiy, indeed, as to the cystitis, rapidly ' $n$ all other ways; and it is probable : int had he come under treatment as $\because$, it :s ine received the injury he would by this time have entirely recovered.

Liniment to Repress the Sheretion of Milk.-This liniment is made of six parts each of the tinctures of black pepper and of bergamot, and two and a half parts of camphor with eighteen of castor oil. The breasts are rubbed with it three times a day.Union Médicale.

## REMARKS ON APOPLEXY.

In a lecture on Cerebral Hemorrhage, in the British Medical Journal, Dr. Julius Althaus remarks :-

Among the various points which influence the issue of such attacks as just described, the uge of the patient is a most important one. Clinical experience has shown that the young recover more easily from the complaint than the old: and the result of my researches on the mortality from this disease in England and Walds during the last forty years, enable us to give considerable precision to this point. A large number of infants die of apoplexy in the first year of age; but these are mostly cases of meningeal, and not of cerebral hemorrhage. Of the latter there are hardly any instances between the first and fifteenth year of life; after fifteen they are "few and far between;" bat at thirty-five there is a percoptible increase, and the numbers then gradually swell, until they reach an imuense maximum, between seventy and seventy-tive years of age. Between seventyfive and eighty the mortality from this complaint is still very large, while after eighty a rapid fall sets in; but considering how few people are still alive at eighty and the subscquent periods of life, the fatality of cerebral hemorrhage does actually increase rather than diminish as age advances. I an therefore able to state in general ierms that cerebral hemormage is of slight significance up to thity years of age; that its fatality increases pari passu with years; mad that the greater the age, the less is cie probubility of recovery from sere. br: iemontic: $:$.

While, therefore, age must, in every individual case of this kind which may come under your ohservation, largely influence your opinion about the patient's prospects, you should know that sex has no such influence at all. It is true, that it has hitherto been generally assumed that males are more liable to die of apoplexy than females ; but my investigations of this point have conclusively shown that such is not the case, that the sexes die in almost equal proportions of the disease ; and that the slight excess which is found to exist is for women and not for men, the proportion in two hnndred thou-
sand consecutive cases being 1000 for males, to 1009 for females. From this you will perceive that for the purpose of prognosis sex is devoid of practical importance.

The constitutional condition of the patient has, on the contrary, a most important bearing on prognosis. Where cerebral hemorrhage occurs from leukemia or contracted granular kidney, the prognosis is unfavourable. Gout and syphilis are likewise undesinable complications, while the absence of constitutional fanlts will, ceteris puribus, render the patient's prospects more hopeful.

Finally, trectment may incline the balance towards recovery or death. The treatment by venesection, which was formenly much in favour, was thoroughly irrational, and generally followed by disastrous results; indeed, many patients have died of the remedy rather than of the disease. Venessction has lately fallen into disuse; but the condition of the brain during cerebral hemorthage is not one of congestion, as was formerly believed, but of anæmia ; the organ not only loses blood largely, but is also, from compression of its arterioles through the clot, unable to receive a fresh supply of the reviving flaid; death in this disease takes place chiefly from anemia; and by resorting to phlebotomy, you simply iucrease cerebral anamia still further, and thereby hasten the fatal result. Eschew the lancet, therefore, as a deadly instrument in these cuses.

A simply expectant phan of treatment is recommended by the most recent writers on the disease ; and thrre can be no doubt that abstaining from all active interference is far better than to bleed your patient. Molière, on his deatli-bed, cried out to his doctors: "Lais-sez-moi mourir, mais ne me tuez pas!" and the expectant plan of treatment certainly does not kill the patient, it only allows him to die. In spite, however, of recent authorities for doing nothing, a more active mode of treating cerebral hemorrhage seems to me to be called for.

Your object must be to arrest the further effusion of blood from the ruptured coats of the miliary aneurisms, by causing the vessels to contract. Now, many styptics must be inapplicable for these cases, because the patient cannot swallow, and even if medicines were intro
troduced into his stomach, it seems most doubtful whether they would be absorbed. Nor can the rectum be used for the purpose of affecting the circulation, as there is frequently paralysis of the sphincter-ani, and inalility of the bowel to retain its contents. The hypodermic mode of adminstering medicine seems, therefore, to recommend itself, particularly in these cases; and the remedy I think most appropriate for them is ergotine.

There are two kinds of ergotine known to chemists, viz., Wiggers' and Bonjean's. The former is insoluble in water, ether, and dilute acids, but soluble in alcohol, strong acetic acid, and caustic potash ; and, on account of these peculiarities, it is not suitable for subcutaneous injection. Bonjean's ergotine, on the other hand, is easily soluble in water, and it is this therefore which you should use. I an in the habit of injecting a grain of it every hour, or where the symptoms are very urgent, even every half hour, into the subcutaneous cellular tissue; and, although the experience of a single observer, in a disease like the one now under consideration, cannot count for much, yet I feel justified in recommending you to follow this practice, as being likely to save many lives.Med. and Surg. Reporter.

Methods of Increasing or Dimintishing Intra-Thoracic Pressure at Will without any Pressure.-Dr. J. S. Cohen, (Med. and Surg. Reporter, July 26, 1876) gives the following method of obtaining the advantages of rarefied or condensed air :

1. Valsalva's method, a forcible movement of expiration with mouth and nostrils closed, increases the intra-thoracic pressure and has the same physical effect as the inspiration of compressed air, and the effect can be increased by external compression of the chest and abdomen.
2. Deep and prolonged inspirations with mouth and nose closed will expand the chest and rarefy the air in the lungs, and the effect is the same as that of the inspiration of rarefied air.
3. Expiration aided by external compression of the chest and abdomen has an effect similiar to that of expiration into rarefied air.

## TREATMENT OF SULATICA BY AQUAPUNCTURE.

by gopaul cilunder roy, m.b.
The treatment of the following case was was modertaken in accordance with the suggestion made in The Lancet of the 4 th March, 1876. by Mr. R. Clement Lucas. Just at the time I had this patient moder my treatment, and seeing the misprable life he was leading from a chronic and obstinate attack of sciatica, I resolved to give him the benefit of this novel method. He vai suffering. from pain for a year and a-balt, extending from the storum down to the left foot. The tenderness was felt along the course of the sciatic, nerve on the posterior. aspect of the thigh, and diffused itself on the calf. There was no starting of the limbs nor pain in the hip-joint: hut on account of the rigid tension felt in stretching the limb he was obliged to walk in a stooping posture, so that the pelvis was distorted and rotated on itself, the spinons process of the diseased side being on a lower level than the other. His appearance indicated constant suffering. and the disturbance of nightly rest made his life a burden. There was no history of syphilis, and his general health was tair.

As no internal medicine or external embrocation produced any palliation of the symptoms, commenced bypolermic injection of water on June 15th. I must.premise that the treatment was not an unmixed one, inasmuch as it partly consisted of acupunctire along the course of the nerve on the posterior region of the thigh. On the first day three injections were used -one in the gluteal region, one in the thigh, and the third in the calf of the leg. In the tirst two the needle was carried deep into the tissues, and a syringeful of water was injected; and in the third, as the pain was superficially situated, the injection was simply hypodermic. That the needle had passed close to the nerve in the thigh, was evident from the contraction of the muscles of the limb as the injection was being pumped in. I sent the patient away with instructions to appear nu the third day, when he reported the pain in the leg had completely disappeared, and the limb was more at ease. The same treatment was repeated three or four times at
intervals, after which he had so far recovered as to be able almost to walk upright. He had hetter rest at night that he bad enjoyed for a year, and felt himself grateful for the palliation of his symptoms. Before injecting the water, I used to exhaust the cavity of the syringe with a view to ascertain if any fluid conld he sucked in, but I never found anything except a few drops of blond. The relief could not have been due, therefore, to any letting out of fluid from the sheath of the nerre. to which the advocates of acupuncture in sciatica ascribe the benefit. The patient is still under treatmeni, and confesses that the injection has relieved more than half of his painful symptoms.--. The Lremet.

## RENAL NEURALGTA IN LOCOMOTOR ATAXY.

To the catalogue of visceral neuralgias in association with locomotor ataxy, with which realers of M. Charcot's admirable lectures are well acquainted, must he added yet one morenamely, a renal nenualgia. The case in which this was the predominant symptom was related by M. Reynatad at the last meeting of the Acaadémie Médecine. A nam, thirty-nine years of age, was admitted into the hospital suffering apparently from a scvere attack of renal colic. There was extreme lumbar pain, marked retraction of the cesticle, vesical tencsmus, suppression of urine, vomiting, and a condition of semi-coma. The diagnosis of renal colic, at first entertained, was subsequently alandoned, chiefly on the ground of the long duration of the attacksnamely, several duys at a time,--followed by a bupporary cessation and recurrence, tinally becoming continuous. Moreover, the pain was radiated towards the shoulder as well as cowards the thigh, and the urine was free from albumen. At the post-mortem examination, the kidneys were found to be healthy, and the cause of the renal trouble was found to lie in sclerosis of the posterior columns of the cord. The pationt had never had any inco-ordination of movements. M. Reynaud thinks there can be no doubt that this was a case quiet analagous to those in which the stomach and intestines are usually the seat of nearalgia; and as he believes this to be the first instance in which nephralgia was marked, he contented himself with simply recording the facts of the case.

## צurgery.

CLINICAL LECTURE ON THE TREAT. MENT OF COMPOUND DEPRESSED FRACTURES OF THE SKULL.

PV SAMPSON (:AMGEE, F.K.S.
Surgron to Qucen's Horpital, Birningham.
Gentiemen: Is the trephine to be employed or not in compound fractures of the skull, with depression? No question more than this has engaged the attention of practical surgeons: it is still unsettled. and I shall endeavour to lead you to a correct understanding of its merits in commenting on three cases which I have to bring before you. In each case the scalp was divided, and the bones of the skull were broken and driven in, without however, producing evidences of injury to the nervous centres. In none of the cases was the trephine employed: in all the result has been perfectly successful.

The man before you, Thomas Moran, a bricklayer's labourer, aged 55 , was admitted to Ward 3 on September 15 th. While he was at work, just previously, a brick fell from a considerable height upon his head, making a Y-shaped scalp-wound about two inches and a-half in length, and situated rather above the middle of the left parietal bone. The flap of the wound being turned back, a Yshaped fracture became visible, with its centre deS sece to cre-thind of an inch: the sides of the fracture sloping evenly towards the central and most depressed point: The man seemed little affected by the accident, and had no idea of its serious nature. The edges of the wound, admitting of easy approximation, were brought together and dressed with dry lint : and for the first fortnight the patient was kept perfectly quiet in bed, on milk-diet, with an ice-bag on the head. No signs of constitutional disturbance appeared, and the man was discharged at the end of seven weeks, to use his own terms, "in as good health as ever he was in his life." The wound was then quite healed, and the area of the depressed bone measured one inch and a-half longitudinally, seveneighths of an inch transversely: its depth was three-eighths of an inch in the centre.
The next patient, Henry Hadden, a machinist, aged 25, was admitted into the Queen's Hospital at (I.zo P.M., on September 25 th. A few minutes previously, in a street row, a brick had been thrown at his head, producing a wound an inch in length, over the left temporal ridge, in a line above and in front of the ear. The hæmorrhage was considerable. The probe passed into a
very abruptly punctured fracture of the skull; the amount of depression being half an inch, and the edges on one side, at least, being quite perpendicular. Mr. C. W. Keetley, our house-surgeon, to whom I am indebted for the notes of these cases, made a memorandum at the time, to the effect that, in Hadden's fracture, a small piece of bone appeared to have been driven right in. The man was quite sensible, though faint from loss of blood. He was put to bed, with an ice-bag on the head. At 8.30 next morning. a little headache was complained of; the pupils were even; temperature ror deg. A magistrate took the depositions at the bedside in the afternoon.

Septenber 27 th, morning. Pulse 80 ; temperature 98 deg. There was a thin drab fur on the dorsum of the tongue. The bowels were not open. He had slept well ; was very hungry. The wound was healthy. His eyes were slightly swollen.
The bowels acted the next day. The wound gradually healed ; and on October gth, the ice-bag was left off, a flannel cap allowed to be worn, and the man to get up. At the end of anotber fortnight the man was discharged in perfect health ; the cicatrix was quite sound; and the depression at the seat of fracture admitted the end of the little finger, which did not seem to touch bone at the bottom.

The third case which I have to bring before you is that of T. Smith, a joiner's labourer, aged 25 . He was stooping down at his work, when a brick fell on his head from a height of thirty feet. When admitted to Ward I (4.15 P. M., October 15 th, 1875), half an hour after the accident, he was quite sensibie. A wound on the left side of the head was bleeding freely; corresponding to it was a depressed fracture of the skull, the depressed piece of bone being horse-shoe shaped, and situated near the middle of the lambdoidal suture. The depressed surface was about one-eighth of an inch below the surrounding bony level. No head-symptoms. Pulse So: temperature 99 deg.; respirations 24. The edges of the wound were approximated and dressed with dry lint. An ice-bag was ordered to be kept on the head constantly.
October 16th. Temperature 99 deg.; pulse 72 respirations 20 . He was perfectly sensible. He had taken plenty of milk. He was ordered to have an ounce of castor oil.
${ }^{17}$ th. He slept four or five hours in the night. The bowels had acted. Temperature rov deg.; pulse 104; respirations 22.
18th. Temperature rox. 6 deg.; pulse 76 ; respirations 24.
November 19th, morning. Temperature 99.2. deg.; pulse 84 ; respirations 22. There were still
no symptoms of serious lesion or constitutional disturbance. -7 P.M. Temperature ro4.4 deg.; pulse 104; respirations 32 . He had a rigor half an hour ago. A full close of castor oil was administered, and the bowels freely relieved. No other untoward symptom occurred, and the rigor and rapid rise of temperature remained an inexplicable incident.
December 8 th. He had continued perfectly well, and for the last month had acted as assistant porter in the hospital. He was now discharged, and I made the following note: "The length of the cicatrix is one inch and three-cuarters. The depressed portion of bone measures one inch and one-eighth, by seven-eighths of an inch. The depression is deepest in the centre, where no bone can be felt. the man looks perfectly well, and says that he is so."
You have here three cases of compound depressed fracture of the skull admitted within a period of one month, treated successfully, without the trephine or elevator. You may form some idea of the interest attaching to these cases, by a statement of Erichsen, that, with a single exception, he does " not recollect ever having seen a case recover, in which a compound depressed fracture of the skull occurring in the adult had been left without operation,"
Prescott Hewett's counsel is given in no doubtful terms. "What," he asks, "is to be done, supposing there be a wound leading down to the bone in a depressed fracture of the vault without symptoms?. The rule is that we are to operate and at once." With the utmost regard for this dictum of one of the most thoughtful surgeons of our time, who has made injuries of the head the special object of his clinical studies, and conceding that, in his advocacy of operative interference in compound depressed fractures of the skull, Prescott Hewett is at one with many eminent surgeons, especially British, I am clearly of opinion that the practice followed in the cases before you should be the rule of practice.

When addressing you on the treatment of compound fractures of the limbs, I have sought to impress upon you the wisdom of the precept, "to aim at reducing a compound to the condition of a simple fracture, and to treat both alike." This precept is equally applicable to compound depressed fractures of the skull, when the brain is not injured.
Although unanimity has not yet been attained, the progress of surgery has powerfully contributed to the establishment of this proposition. A century ago, operative interference was the rule in all fractures of the skull. It was Quesnay, himself
an advocate of the practice of interference, who gave force to the opinions of dissentients, by the very title of one of those masterpieces of clinical study embodied in the memoirs of the old Academy of Surgery. It fell to the lot of another of the academicians to substitute for traditional empiricism rules of practice as prudent and safe in their application, as their conception was enlightened and their demonstration closely and carefully reasoned. With few reservations, Desault was opposed to the use of the trephine in fractures of the skull. It was otherwise with his great rival on this side of the Channel, Percival Pott. The elevator and trephine were his favourite instruments, and so great was his ascendancy in the surgical world, so much more fascinating tor the multitude, then as now, were boldness and complication than prudence and simplicity, that his heroic action had many imitators; foremost amongst whom was his most illustrious pupil, John Hunter, who went so far as to advocate the trepan in some doubtful cases, " as the operation can do no harm." The impending French Revolution, and its attendant slaughter on the battle-fieids of Europe was soon to furnish those lessons which, in surgical as in other experience, make men judicious.

When after the battle of Talavera de la Reyna, the order was given for all the wounded who could leave the town to march, Surgeon Rose found himself in charge of a large number of the disabled Guardsmen Twelve or fourteen of them had compound fractures of the skull, some with depression. In none of these was the trephine employed. The retreat in the burning sun lasted sixteen days, and yet every one of those who were wounded in the head recovered.

Hennen relates the case of Corporal Corkeyne, wounded by a musket-ball in the head at Waterloo. The fractured portion of bone was driven into the brain (being exactly an inch and one-fourth from the surface of the scalp). No operation was performed, and yet the man was discharged cured in a few weeks. After quoting a similar case, Hennen sums up: "We have here sufficient proof that there is no absolute necessity for trepanning, merely for depressed bones from gun-shot"an opinion strengthened by the cumulative experience of military surgeons, many of whon now entirely discard the trephine, while almost all are agreed that its use should be restricted to very exceptional cases.

Desault's conservatism told directly on the civil practice, not merely of his own countrymen but of British surgeons. John Bell, with his true surgical instinct, with his impetuous energy, and with the furbished eloquence of his ripe culture, threw in
his lot against the trepan. "After the expiration of my apprenticeship at these hospitals," Astley Cooper has placed on record, "I went over to Paris, to see the practice of Desault at the Hotel Dieu ; and there I found that scarcely ever under any circumstances did he trephine ; and he was more successfui than the English surgeons." Abernethy and Lawrence, too, were in this matter disciples of Desault, and on the same side must be mentioned one of the most enterprising surgeons of the century-a master who combined in a very rare degree fearlessness and judgment, power of brain, and skill of hands--I allude to Robert Liston. In his Practical Surgory he thus writes: "When fracture of the skull is complicated with wound of the scalp, the surgeon will not in general mend matters much by trephining, as has been advised, merely because there is a wound; if the depression is pretty extensive, and unless he has a better reason to give for the proceeding than the mere circumstance of the fracture being compound, as it is called, he will often thus add as much to the injury and to the risk which the patient is subjected to by it, as he would by dividing the scalp in simple fractures."

This warning is of special significance, emanating as it does from one who had had abundant opportunities of witnessing the effects of the trephine and elevator, and who possessed operative skill and courage in so high a degree that he never felt the temptation to inaction as a refuge from responsibility.

Samuel Cooper was equally conservative; but it is due to you to state that three of his contem-poraries-Guthrie, Brodic, and Velpeau-in the very first rank of surgical authorites, matior :aclined to the heroic practice of Pott than to the physiological watchfulness and the gentle medical measures of Desault. Italian surgery has gradually come round to non-interference as the rule of practice in fractures of the skull, while the German school has traditionally been opposed to the trephine. Neudorfer, writing after the FrancoGerman war, sums up directly against it. MacCormac reflects the experience of the French and German surgeons on the battle-field of Sedan, in the siatement that, " as a general rule, the largest proportion of good results (in gunshot fractures of the skull) obtain amongst those cases where the amount of operative surgery has been at a minimum."
Jules Rochard has contributed an interesting summary of the international position of the question. Speaking of trephining, he says: " The spirit of reserve distinguishes French surgery. It holds a position between the practice of
the Germans, who scarcely ever trephine, and that of the English and of the Americans, who, though resting on the same rules as ourselves, have much more frequently recourse to this operation. Leon le Fort has analyzed the trephine operations on the two sides of the Channel from 1855 to 1866 . He has found one hundred and fifty-seven of them in England, and only four in France, in that period."

The authorities I have quoted will be sufficient to convince you that the masters of our science have treated this question as a very important and difficult one. From their differences you will learn caution and toleration in judging others, and the need of most careful inquiry, before you determine to use the trephine. The three patients whom I have brought before you with compound depressed fractures of the skull, successfully treated without the trephine or elevator, have not recovered by accident or in virtue of a curious coincidence. As many authorities are against me, I have deemed it my duty to compare my opinion with that of others, for your instruction. In examining the question from an historical point of view, I do not pretend to have exhausted it ; but 1 do hope to have proved that the progress of opinion has on the whole, been in favour of non-interference, when the scalp is wounded and the skull broken and driven in ; without, however, producing symptoms of brain-lesion. The lesson very impressively taught by a careful study of the subject is this : that whereas the trephine was almost indiscriminately employed before surgery attained to the position of a science, its use has steadily decreased as enlightened experience has accumulated. Many surgeons, from being advocates of li.e trephine, have gradually abandoned it; but, so far as my researches have extended, I cannot find an instance of conversion to the practice of trephining by a surgeon whose reason indisposed him to adopt it, or whose experience had once led him to relinquish it. That there may be cases of compound depressed fracture of the skull justifying operative interference 1 do not deny, and I myself had occasion to operate successfully on such cases in this theatre. Another opportunity may present itself for discussing these cases. For the present, 1 shall limit myself to again impressing upon you my conviction that, in compound depressed fractures of the skull without brain-symptors, the proper course of practice is not to trephine.British Medical fon: nal.
$\therefore$ site has been granted in the Duchy of Saxe-Coburg Gotha for the cremation and subsequent disposal of the dead, and an apparatus is about to be erected by the German Society at a cost of 15,000 marks.

CLINICAL LECTURE ON STRICTURE OF THE URETHRA.

Delisered at the Liverpcol Roynl. Infirmary.

* by reginald harmison, fil e.s., surgeon to the Injirmary.
*     *         *             *                 *                     *                         *                             * 

In undertaking to say anything akout the treatment of stricture, $l$ am conscious that the subject is a well-worn one. Still, with all our plaus of treatment, we have not arrived at anything like umformity of practice, and as this is only to be obtained by taking the sum ot our respective experiences, I feel less hositation in bringing under your uotice some conclusions which my own experience, chiefly gathered in the wards of this hospital, has cuabled me to arrive at. These considerations 1 hope to place before you during my course of clinical lectures this session. In using the term "stricture," 1 reserve it, as sir Henry Thompson suggests in his eminently practical work on Disease of the Urinary Organs, for one kind of stricture-viz., organic strictures. "Spasm" and "inflammation" are conditions more or less transient, but do not constitute stricture in the acceptation of the term which is now generally adopted. The causes of stricture are varicus. Let we give a lew illustrations. A patient has a vonereal sore on his glans penis invoiving the meatus. When this heals a cicatrix is left. Cicatrices are more or less disposed to contract, and in this instance result in the narrowing of the urethral orifice. This condition was well illustrated by a case in No. 7 ward, where the sane state of things was produced by an improperly performed operation for circuncision; a portion of the glans penis having been removed along with the prepuce. When the sore healed, the cicatrix contracted, and the patient presented himself here with a tight stricture of the meatus requiring division. Another cause of strictrre amongst our sailor patients arises from injuries where the urethra becomes bruised or lacerated. A man falls from aloft across a spar or a rope, aud ruptures his urethra. If the patient recovers from the immediate effects of the injury, it is with his urethra scarred. Here we have the worst variety of stricture-tramatic-a form of the disorder more obstinate to deal with than any
other. In our enquiries as to the cams: of stricture, we find that by far the larger proportion of our patients attribute their misfortme. directly or inditectly, to previous attacks of gonorrhata. Those who do so directly are disposed to look upon the stricture as the matural cousequence of their previous mishap. Those who do so indirectly usually have something to say about the treatment employed and its beariug upon the subsequent formation of a stricture. it is worth our while for a moment to analyse the statements made by this latter class with the view of ascertaining how far their allegations hold good. " 1 was almost ented of my gonorrhoa, ouly a very slight discharge remaning, which I thought would go away of itself," is the statenent of the patient who is convicted oi his own indiscretion in having allowed things to go on from bad to worse. Others, again, seek refuge in referring their misfortune to the improper advice they have received. "I was told that it was only a gleet, due to weakness, which would go away by iron, tonics, and cold baths." Here we have illustrations of gleet terminating in stricture.

Now it is well for you, once for all to undorstand that a gleet is not a disorder which is disposed to go away of icself; on the contrary, it requires careful and well considered treatment, and if it does not receive this-that is to say, if it is clumsily dealt with or not dealt with at all-it mosi probably ends in the formation of a stricture.

A gleet is to be regarded as indicative of the early formation of stricture. Nay, further, you will not do wrongly in regarding a gleet as a stage in the stricture-forming process when by your treatment you can promise your patient to restore his urethra to its normal condition; when a stricture is once allowed to become cicatricial in its character, you may palliate or adapt, bnt you can no more restore his urethra than you cau by dissection or any other process remove a scar from his skin. You may moderate the inconveniences of a scar, but you cannot obliterate it. Let not, then, the curable; stage of stricture pass by ; at all events, let the onus of doing so rest with your patient and not with yourself.

Again, it is very common to harar patients attribute their strictures to the use of injections in the treatment of their gonorrheas. A considerable amount of prejudic: exists in the public mind in reference to the use of thes: applications. P'atients not untrecqueutly say,", when consulting you about it gonorthea. "Bo not order me an injection, as I understand they often occasion stricture." Is there any trath in such an allegration? Assuredly not. presuming, of course ingectious are judicionsly preseribed and properly used.

Let me remind you that the curt of gonorrhasa by specitics is essemuially one on the principle of injection. EOF how do the drugs that act specifically on the uretha effect then purpose? How do we explain the aetion of eopaiba, oil of shudal-woenl, creasote amb certain terehisthinates, in the cure of gonorthea? Do not all these Mrugs exercise their thempentic properties, bs certain of their constituents, for the most part demonstrable, hicing conveled by the urine to the situation of the dismiler? Whas is this but a cure by injection or, to be etymologically eorrect, ejection? It is the wine of the patient that convers the specitic to the disease, just as the rose water in your injection does the sulphate of zinc, or other astringents.

It is the abuse of injecting that is open to aniuadiver-ion. Injections in the treatment of gonernoea only to ham, when, by reason of their composition or strength, they ate as irritants to the mucons membrane.

In the ordering of urethral injections there; are two rules which should be regaxded :-1. Do not strain the wrethat by the quantity of injection used. 2 . Do not pain the urethra by the quality of the injoction. A teaspoonful of fluid put into the urethra frequondy is better than a tablespoonful forced in three times a day. This is a point upon which I have long insisted. In presoribing injections you should feel your way, adding to the strength according to circumstances. Some persons, it is well known, are far more sensitive to the action of remedies than others; and this applies equally to the urathra-"The temper of the wethra varies as much as the temper of the mind." An injection appropriate in

- Brodie on Diseases of the Urinary Organs, p. 60.
streneth to a first gonorrhen is like the proverbial drop of rain on the duck's back in the case of the habitue. I remember ordering one of the latter an injection well known as "the four sulphates." It cured hin effectually, and without pain. A friemul, herring of the success, horrowed the prescription, and withont proper advice, used it. The consequences were, an acute attack of cystitis and a subsequent stricture. Surely it is only to the foolhardiness of the sufferer that such an unfortomate result is to be attributed.

And I would here rerark that I have seen a great deal of danuge done and suffering occosioned by the use of some of the nostrum injections advertised throughout the country as "infallible cures" and "procentives." Many of then contain the ordinary astringents appicable to the wrethra, bue in a very potent form. 1 cantion you therffore against samctioning their use.

These olservations have hean made with the view of showing that it is only by their imbroper use that injections are open to the charge of occasioning stricture. If they are prescribed in accordance with the rules I have given, you will never have chuse to regret their use.
[Mr. Harrison then proceeded to speak of the pathology of stricture, illustrating his remarks by cases which have recontly been under treatment in the infirmary.]

The Treatment of Cancer.-An English joumal states that in the University College Hospital, London, in cancer cases, the application of stramonium ointment was fond to give great rehief to pain. Mr. Henry Morris had good results in a severe case of epithelioma, involving nearly half the scalp, with "Foll's Paste". (chloride of zinc, tlour, and liquor opii sedativus, sutlicient to form a pastej. The first application produced an eschar; which was cut through so that the remedy could be applied deeper, and applications having been made daily, or on alternate days, for about a month, the whole mass came away, leaving the bone exposed ; finally, a thin sheet of this exfoliated, the wound healed, and the patient has remained well for several monibs since.

## THE RADICAL CURE OF INGUINAL HERNIA. <br> by Charles C. f. gay, m.d.,

 AtrendingSurgyon to the Fuljalo General Hospital, Bufjulo, N.Y.John Bliss, aet. 38 years; entered Hospital some weeks since, for anal fistula, for which I operated, and now having nearly recovered, is willing to have operation for radical cure of hernia. He has had hernia, right side, since 1862 , nearly fourteen years, and has worn a truss. The abdominal ring is large, and the intestine descends into the scrotum.

At my clinic to-day, May $13,1876,1$ operated in the presence of the class. in the following manner :-

Chloroform was given ; lifting a portion of scrotal integument upon my left fore-finger, it was carried up to the inferior pillar of the abdoninal ring, through which the needle was passed and brought out through the integuments nearly or quite an inch above the superior pillar. The needle, which has an eye at its point, was now threaded with silver wire, and withdrawn through the pillar which it had transfixed, but not through the scrotal integument. The point of the needle, guided by the index finger, and still threaded with silver wire, was directed upward, beneath the border of the superior piliar, through the pillar and out through the integuments at the same point where the needle was threaded.

The needle used in introducing, the wire is four inches in length, slightly curved at its point, with an eye at its point, and is fixed to a strong handle.

Having introduced the wire, it is twisted, when, by passing the finger up to the ring it was found sufficiently closed to prevent any further extrusion of intestine. The same needle was used in passing a four-stranded silken thread or ligature. This ligature was passed in the manner following: The fundus of the scrotum was carried before the index finger up to the ring : the needle was now passed through the scrotum, directed by the finger, beneath the border of the superior pillar through the canal, and out through the integument an inch and a half above the ring; the needle was now threaded with the silk ligature and withdrawn clown through the canal and tunica vaginalis testis, and was of sufficient length to allow the ends to be tied together. The operation was then finished, having required not more than ten minutes in its performance.
Subsequent treatment consisted of opium and the local application of warm water fomentations.

May zoth.-The silk ligature was removed; it had excited considerable local inflammation, but
did not cause pain enough to require the administration of more than a quarter of a grain of morphine every four to six hours. The scrotum was suspended.

- Moy 27th.--The silver wire was untwisted, in order to see if the pillars of the ring would separate. For this purpose the finger was passed up to the ring, when it was ascertained to be closed, without assistance of the wire ligature. The wire, however, was again twisted, cut short, and allowed to disappear beneath the integuments, to remain there as an innocuous substance, or until it ulcerated its way out. This patient was under obserration until the middle of July, when he left the Hospital to go to work. At this time there was no indication of hernial protrusion ; as a precautionary measure, however, 1 advised him to wear a bandage or light truss for a time, although there did not seen to be the least necessity for any mechanical support.

REMARK:--I understand full well the measure of skepticism evinced by surgeons of the efficacy of any operative means yet devised or to be devised for the radical cure of hernia. I must confess to having shared in this skepticism myself; still, I have an abiding and firm conviction that this very common physical disability will yet fall within the range of the resources of surgery, and that an operation will yet be devised that shall be recognized as radical, and included in the standard and classical operations of sursery.

At the recent meeting of the American Medical Association, held at Philadelphia, I listened to the reading of an interesting paper upon this subject by Dr. Dowell, of Galveston, Texas.

I was surprised to learn from him of so large a percentage of cures by his operation, which consisted, briefly stated, in passing, with a curved needle, pointed at both ends, sutures through the piliars of tine ting in suificient number to excite inflammation, and thereby close up the opening. He had operated successfully upon over seventy cases, and claims that his method answers for any form of hernia. I shall be very glad to learn that, after a still more extensive experience, the Doctor shall find that his operation possesses all the merit he now claims for it. I fail to see, however, in his method, any essential advantage over that of my own, unless it may consist in the layger number of sutures which he employs in coaptating the borders or overlapping the pillars of the ring.

My own operation for radical cure of hernia has been limited to direct and oblique inguinal herniæ. I should be quite well satisfied with success in operating for these forms of hernia, inasmuch as they are, more than other varieties of
hernia, amenable to surgical means, leaving femoral hernia in the hands of those who are more sanguine than myself of good results.
In the operation which I have described, I might, with propriety, have used a second or third silver ligature, but my object in using the ligature has been to hold together the borders of the ring only during such time and no longer, as would be required for effusion and deposit of plastic material from inflammatory action excited by the silk ligature.
1 introduce the silver wire subcutaneously, and have allowed it to remain for an indcfinite period of time. I think it just as well to remore it after it has fulfilled its mission ; that is, after subsidence of inflammatory action, since the ring will then remain closed without any further aid from the ligature, still, no harm or inconvenience can come from its remaining in sith. In the case of a child on whom I operated a few years ago, the wire ulcerated its way out after several months.
I feel unwilling, with my present experience, to say how much or how little the operation is fraught with danger. The point of the needle must be, in great measure, guided by the end of the index finger, and the first steps of the operation must necessarily be conducted by the sense of touch rather than of sight. With care and deliberation in transfixing the pillars of the ring with the needle, there will be no injury inflicted either upon nerve, blood-vessel, spermatic cord, or intestine, therefore, the only supposable danger must arise from the local inflanmatory action.
In reference to the propriety of the operation, it is unfortunate that, at present, authority seems to be against the efficacy of operative measures. I have too much respect for the opinions of those who are cited as authority on questions of surgery, to distrust the soundness of any decisions which they may make, still, I hope that evidence may yet be adduced of sufficient force to enable those who have cxpressed doubt as to any permanent result from operative interference, to reverse their judgment.
Should it transpire, in the course of time, that the plastic material which has been relied upon for closing the herinal outlet is absorbed, then the operation is of no avail; but if it be not absorbed, as I have abundant evidence to show that it will not be. then certainly the operation ought to be classed with the standard operations of surgery.

Maximilian Joseph Chelius, the celehrated German Surgeon, died at Heidelberg lately, aged 83.

## the treatment of scrohulous ophthalmia.

Mr. H. C. Lawrence gives. in the Mpeliacal Press and Cireutar, lis own experionce on this delbated suliject, as tollow: :-
The marked figestive derumgement has henefitted from a mercirisul puge, fillowed by a course of non-mereutial aperionts wail the evicuations becone normal. Next a plain, nourishing and unstimulating diet, to wiich mitk contributes jargely, is beneficial. Heat should not be given too freely. Most of the patients are ill-nourished when scrofulous ophthalmia manifests itself : :arcly from porerty, partly from digestive imperfections; to feed these too generously virtually promotes starvation ; the fuel becomes excessive for the combustion power of the invalid.

Cod-liver oil requires regulation in ase. Instead of regarding it as a specific, my own experience has led me to consider it hurfful in some cases ; the cases for its use and non-use may be differentiatel thus, as Sir William Lawrence and Niemeyer bave noted: First, the "torpil" constitutions who are clumsy and thick-set in build, aud exhibit a tumid upper lip and enlarged nose, and have abundance of adipose isssue ; by these cod oil is not required, and it may prove injurious to them; while, secondly, the "erethitic," with slender frame, lack of tat, and accelemated pulse and overactive nervons system, largely bencfit from the use oû col-liver oil. Thes: calses have procured for it the iame of an anti-scrofulous remedy (Niemeyer).
The photuphobia has been relieved at first by the use of bromide of potassim, and the retief maintained by the administration of quinine. Quinine employed after potassium bromide has appeared moro efficacions than when used alone. Relayses of intolemence of light have yielded to similar treatment.

Fresh air, and pleaty of it, is imperative. Cold shower-batus in summer, sponging with tepid sea-sill water in winter, hitve proved valuable auxiliarjes.

For local treatment a green shade, made iike the peak of a rifie cap, is praferable to one fitting close to the eves, the latter being inju-
rious. Padding of the eye with cotton wool to prevent friction of the lids appears to we nagither necessary nor advantageous, equally sood if not better results having followed frequent poppy fomentation instead, allowing fiee exposure to air, with shade from light.

When the acute sympioms have subsided the utmost possible bencfit has eusued upon the use of poppy fomentation used as a douche to the eye, at first warm, then tepid, ultimately cold. The spasm of the orbicularis oculi seeans to be much lessened theroby.

Counter-irxitation in the form of linimentum iodi painted behind the sar is preferable to blistering. Scrofulous constitutions resent blisters, secondary cutaueons eraptions and swelling of the neighbouring glands being apt to follow. Frequency of counter-irritation, however, short of producing breach of skin auri glandular eulargement, seems not only indicated, but is found practicably to be very useful.

Nitrate of silver has proved itself injurious when applied to the conjunctiva in scrofulous ophthalmia, and solution of atropine less useful in allaying irritation temporarily than frequent anodyne fomentation. Atcopine should be reserved to insure dilatation of the pupil when necessary.

Iron is preferable to quinine in marked anremia, but I have not sufficient evidence to prove its regular efficacy over quinine in promoting repair and nutrition in uleeration of the cornea, as some authors assert, while quinine exerts a marked effect in lessening the photophobia scrofulosa.

Removal of an Eifarged spleen. - Mr. Spencer Wells recendy removed at the samaritau phospical a large spleen, which had been diagnosed as ac ovarian tumour. On tapping it its nature became apparent, and nothing was left but to give the patient a chance for her life by its removal. It weighed eleven pounds. The vessels were all carefully secured, but the patient sauk in a few hours. This is a very rare form of diagnostic error, and there must have been a very close resemblance to an ovarian tumour, for Marion Sims was present at, the time, and these two masters of the subject are not likely to have been readily deceived.-[London Letter in Phila. Med. Times.]

## STRANUGLATED HERNIA.

by b. H. WASHINGTON, M.J.. AUGUSTA, GEORGIA.
In looking over the medical journals, I noticerd an article by Prof. Augustus F. Erich, of the Baltimore College of Physicians and Surgeons, proposing a new mode of taxis in strangulated hernia. His plan is, to take the body of the patieut at an angle of $45^{\circ}$, so that the intestines will gravitate coward the chest, an ice bladder to the ring, and gentle taxis; and this after the ordinary plan had been wied unsuccessfully for some hours. The Professor added that he intended to thy a bag of sand on the herni: in the next case he might meet with.

Prof. Erich says that five treatises on surgery which he consulted, including those of Gross anil brichsen, did not recommend placing the patient in the posture mentioned.

Some years since 1 recommended a plan far better: it is to apply a dry cup to the abdominal wall, say over the umbilicus; then let an assistant stand hetween the legs of the patient and lift the hips as high as he can: then the operator, drawing on the dry-cup, produces a vacuum and atmospheric pressure (far better than sand) heing superadded to the weight of the intestines gravitating toward the chest, a reduction is easily effected in less than a minute.

The operation is almosr painless, and really sems so to the patient, for the relief from the preceding pain is so great that he never says a worl about any suffering from the operation.

The above plan has not attracted as much attencion ats its merits deserve, bat if any one will try this painless, easy and quick plan, he will never try the tedious, painful, and sometimes dangerous taxis, reconmended in the ordinary works on surgery. I abundoned the ordintry taxis more than twenty years ago, because the ahove plan was so much superior:

The Russian peasintiy reduce hernia by drycupping on a gratud scate; they take a small cooking-pot, and make the botiom as hot as they can without making the rim too hot, and then applying over the abdowen, cool the bottom with cold wet cloths, and thus suck up so a large portion of the intestines that they are
able to make traction enough on the intestine to draw it back again into the abdominal cavity, though the patient has not the hips elevated.

I respectfully beg leave to call attention again to the abore plan, as one promising all that is ncedel, with but little trouble to the operator, and no suffering to the patient.N. Y. Med. Jour'nal.

## TREATMENT OF BOLLS AND CARBUNOLES.

Dr. Peter Eade. in an article in the Brit. Mecl. Journ., maintains the following dnetrines in regard to these affections:-

1. That boils and carbuncles are not mere inflammations and sloughings of cellular tissue. but specific diseases.
2. That they are parasitic, and, as such, endowed with a definite life and history.
3. That, in their early stages, they may be infallibly destroyed and aborted by destruction of their central stem or root; and that even after this stage has passed, they may generally he destroyed, and in all cases, at the very least, greatly modified, by the free application of carbolic acid.
4. That, to produce this result, the acid must be freely introduced into the central portion of the disease, and also into any other part where an opening exists or is formed artificially.

The essentials for the proper action of the carbolic acid, Dr. E conceives to be:-

1. The acid must be applied in strong solution (four or five parts of acil to one of glycerine is the strength I employ).
2. It must he hrought into conlact with the diseased tissue, for it appears to exert no influence on or through the unbroken skin. To this end, it sufficient opening do not exist when the case is first seen. a proper one must be fearlessly made in the very contre of the disease by some appropriate causi,ic, and, perhaps, the acid nitrate of mevcury effects this better and with less discomfort that any other.
. 3. The acid solntion must be occasionally reapplied to, and into, the hole thus formed, or those alreally existing, and I have found it a good plan to keep a piece of lint wet with a weaker solution constantly over the sore.

NEW OPERATION FOR THE OBLITERATION OF DEPRESSED CICATRICES AFTER GLANDULAR ABSCESSHS: OR EXFOLIATION OF BONE.
Mr. William Adams, surgeon to the Great Northern Hospital, ecu. recommends (British Med. Fonurn., April 29) for the removal or obliteration of deeply depressed cicatrices. such as result from gianduiar abscesses of the neck or from disease of bone in auy region, a new operation, which consists: 1. In subcutaneously dividing all the deep adhesions of the cicatrix by a cenotomy kuife, introduced a little beyond the margin of the cicatrix, and carried down to its base; 3. In carefully and thorougly everting the depressed cicatrix-turning it, as it wore. inside out, so that the cicatrical tissue remains prominently taised: 3. In passing two hare-iip pins, or finer needles, through the base, at right augles to each other. so as to waintain the cicatrix in its everted form for three days ; 4. In removing the needles on the third day, and allowing the cicatrical tissue-now something swollen, succulent, and infiltrated-gradually to fall down to the proper level of the surrounding skin.

He relates three cuses in which he resorted to this operation, and gives illustratious of the cases before and after the opetation, which show considerable inprovement in the appearance of the patient.
"After the operation," he says," the cicatricial tissue always loses its shiny, membramóus, and vascular characters ; it becomes thickened, and of an opaque white colour. The thickening of the cicatricial tissue results fromits succulent condition daring the three days it remains elevated by the pins, and the inflammatry infiltration at its base.
" The permanency of the operation is placed beyond all doubt by the last two casen described -one nine and the other nearly three years since the operation; and the complateness of the orbliteration of the depression and the improvement of the cicatricial tissue, have surpassed my mosi, salnguine expectations."

Dr. Simon, Professor of Systematic and Clinical Surgery in the University ot Heidelberg, is dead.

## CARBOLIZED BRAN IN COMPOUND FRACIURES.

BY LEWIS D. MASON, M.D., BROOKLYN, N. Y.
The advantages possessed by bran, properly mixed with carbolic acid, as a drossing in compound fractures, are these:-

1. The discharge is disinfected as it flows from the wound into the bran.

2 We have a dressing that is "germ pronf," and one that notably limits suppuration.
3. We secure the anasthetic properties of the acid.

The methorl of carbolizing the bran is very easy-simply by adding the crude carbolic acid slowly to the quantity of bran to be carbolized, stirring it at the same time. A litule experi. ence will decide how much of the acid a given quantity of the bran will require. An excess should be avoiderl. The bran will retain the properties of the acid for some time. I have now used it in two cases of compound fracture of tibia, and one of compound fracture of femur.

Cancer of the Lips in Auvergne.-At the recent Congress at Clermont-Ferrand, Dr. Fleury, of that place, read a japer on the great prevalence of cancer of the lips in Auvergnc, the facts being derived from a statistical account ruming over more than thirty years. The lesion is especially met with among the motantaineers, much less frefuently occurs among the inhabitants of the plain, and is very rare among workwen in the towns. Abuse of tobaccosmoking camot be addaced as the cause, as the momataineers do not smoke; while the workmen in the towns, who are almost exempt from the affection, are all srookers. On this account Di. Fleury, in 1850 , entered his protest against the condinsions of Prof. Bouisson's work, which attributed cancer of the lips to smoking, designating it conver des fumpurs. He believes that it ap roaches in its etiology chimney-sweepers' cancer, the wat of cleanliness of sweeps and the mountaineers leing the common cituse of epithelial cancer in both. He agrees with Prof. Bonisson its to the less frequency of this cancer in women, and its localisation in them in the lower lip. Ho believes that, with improved hygiene and a greater attention to personal clembiness, this disease, which annually sacrifices so many victims, will greatly diminish in frequency if not disappear.-Gaz. Hebd.

Dr. W. S. Bowen, ophthalmic and aural surgeon to the Hartford Hospital (U. S.), records this month the occurrence in his practice of six cases of disease of the middle ear induced by the use of the nasal douche in treatiug naso pharyngeal catarth. Many will remember that Prof. Roosa published some time since in the Archives of Opluthalmology and Otology a report detailing sixteen cases of the sort. Dr. H. L. Shaw has also given his experience of eighteen cases, in three of which the mischief was caused, not by the ordinary donche, but by the posterior nares syringe, aud in one by the practice of snuffing salt-anl-water from the hand through the nostrils. Dr. Bowen says there can be no doubt that in his own cases the disease was entirely due to the forcible entrance of Huid thrown by the donche to cleanse the natsal passages and phary na. In five of the cases the pain and disturbonce about the car were observed immediately ater the fluid was passed into the nostril, and in the remaining case the connexion was so cluse as to justify a positive opinion as to the cause of the setions suppurative inflammation that followerl. The writer obsorres that the nasal douche is really a danger. ous instrument, the use of which should be discarded, save in exceptional circumstances.

Spontaneous Gexbration.-The Iustitute (August 2nd) amomees that the Académie des Sciences received at its meeting on July 31st (the French academicians take no holidays) two letters in absolute contraidiction of each other, and both written on the same day (July 29th), one dater? trom Liman by Professor Bastian, the other from the Valais by Protessor Tyndall. The former reiterates the affirmations made in a previous communication, that uriue exposed to a temperature of $50^{\circ} \mathrm{C}$. ( $122^{\circ}$ Fahr.) umdergoes spontaneons fermentation without the intervention of any ferment. In his letter Prof. Tyndall declares that Prof. Bastian's ex: periments are absolutely incorvect, he having in vain repeated thero. He bas never obtained any but negative results, and denies that Professor Bastian bas any right to daw conclusions from them farourable to spontaneous generation.

## 桖illuifoyy.

## REPORI OF A CASE OF ABDOMINAL PREGNANCY TREATED BY GASTROTOMY.

Dr. T. G. Thomas read the history of an interesting case of extra-aterine pregnancy which had been treated by abdominal section. The diagnosis hal been strongly inferred from the development of the case, which was charac. terized by mausea and vomiting, and later by deposition of piginent. The most important and reliable signs, however, were a solid body the shape of a fretus thenting in fluid in the abdomen, and at the same time atn empey uterns. After aspirating a large amomat of sero-pus, the solid body rested at the symphysis pubis. It was decided to perform gastrotomy, and, after etherizing the patient, an incision was made in the linea alba to the extent of tive inches, and a child removed. Dr. Thomas said that he would have jeopardized the life of the patient, after cutting through the ablominal walls and reaching the peritonoum, if he had not been contident of the diagnosis. The peritoneum was chickened, and presented many of the chamacteristics of an ovariam cyst. If the mistake had been made of stripping it off the abdominal wall, the patient in all probability would have died. After extracting the child, no placenta was sech, but merely the attachment of the com to the pritonienm. From the experience gained in a former case, no attempt was made to discover ath remove the placenta. The wound wats closed, and a drainage-tube inserced in the bottom of the incision. The child weighed seven pounds, and had died apmarently from compression of the cord. The experience of the former case referred to by Dr. Thomas was a persistent and nearly fatal hamorhage following the attempt to remove the placenta hy force. After the operation, the patient did well till the fourteenth day, when sigus of septicamia developed themselves. On examining the drainage-tube it was found to be closed up, ind, ou clearing it and removing the discharge, the patient improved. Shortly after, a decomposing mass presented at the wound, and on examination this was found
to be the placenta. After the removal of the placenta, the patient made a good recovery.
Di. Thomas said that two important points to be considered in the operation of gastrotomy for abdominal pregnancy were, first, not to remove the phacenta, and secoml, to keep the abdominal wound open. He had had under his charge seven cases in all. and in six of these a positive diagnosis had been male previous to operation. Four of them recovered and three died. In regard to the subject of operating, no definite rule couid be laid down. In some cases an operation wonla be a blunder.

Dr. Barnes agreed with Dr. Thomas that no definite law conld be laid down in regard to operation. He coincided also with the opinion expressed ats to not removing the phatenta. This had struck hin forcibly in at case which he saw with Dr. Hamsbotham, of London. He questionel, however, if it were wise always to leave an uncloserl portion of the abdominal wall for the voidance of the placenta. He helieved that in many asses the placenta would either be absorbed or undergo such change as to give no further amoyunce after the operation. He had not been so happy as Dr. Thumas in making correct diaguoses in this class of cases. He called to mind distinctly two caises that he supposed were undoubtedly extraterine pregnancies. They proved, however, to be ovarian tumours. In speaking on the sulyect. he wished to draw atcention to another point, and that was, the inalility to make a magnosis of oratian trmours from a microscopical examination of the ovarian Huid. He obtamec: some Huid from a suspected ovarian tunour, and had it eximined by one of the most skilful experts on the subject in Lomdon. On his assurance, orariotomy was performed, when the case proved to be ascites.

Dr. Drysdale, of Philadelphia, said that in an experience of wenty-three years he had examined fifteen lumdred cases, and had not made a mistake. He felt he could speak with certainty. The peculianities of the opll were, that it was of a gramulat chanacter mat unaffected ly acetic acid. When: the same test was applied to the pus and other cellis, they swelled up and became decidedly changed.

Dr. Byford had an experience of twenty-tive
cases, and in all of these the cell referred to by Dr. Drysdale was present.
Dr. Thomas said that Dr. Barnes touched upon an important subject in speaking of the treatment of the placenta. The matter resolved itself into the question whether the safer procedure wats to kecp the abdomen open for draiaage or not. He was strongly convinced that the fomer was the better plan, for the reason that it was unsafe to wat for septicemia to develop ind if the abdomen were closed, it would involve the necessity of opening up thet cavity, and an exceedingly important point was the danger of not finding the nidus of septicamia. In future cases be felt that he would be warranted in prosecuting the same method as practised in the past. Uf the cases in which he had wade a correct diagnosis he did not take ax:y special credit to himself, as he thought that they were by no means obscure or pazzling. In regard to the ovarian cell, he was of the opinion that, althougb Dr. Drysdale was able to make a correct diagnosis, other observers were not so skilful. He bad asked the opinion of micruscopist. is New York, and they trankly told hin that they were mable to diagnosticate ovarian tanours by examining the aspirated fluid. It was only fair to Dr. Drysdale to mention that, of ali the specimens sent to him for examination, a correct opinion had been rendered in each case. - IV. Y. Medicul Journal.

Hydrochloric Aum in Syphilis.--In some theraputieal notes in the Medical Press and Circular, Mr. Grithithe remarks that Piroleau was the first to call aitention to the antisyphilitic virtues of hydrochloric acid, and amoug other authorities who have written favoumbly of it as a remedy in syphilis are Zeller, Rinst, and Pearson. Rust considers that abstinence is an essential element of success in this treatmont: he found that it invariably failed when a fall diet was allowed. The formmia used in the Vienua hospital was a drachan of the acid to two pints of barley water daily. In gangerous uleeration of the genitals Vat: Swieten employed an application of the strong acid diluted with six parts of water with great sucess.

A CASE OF ABSENCE OR NONDE VELOPMENT OF BOTH UTERUS AND OVARIES.

BY A. H. GOELET. M. D., NEW YORK.
The following case will, I think, prove of interest to the frofession, presenting as it does congenital deficiencies which are rarely met with:

Miss B., aged nincteen yeurs, consulted me on the lath of Febraty, 1876. She had never menstruated, and complained of constant severe headache: and of bleeding from the nose. The hadache she has had as long as she can remember; the epintaxis, ofl and on, for the last fire or sin years, but mot with any regularity. Otherwist her health is very grod. Within the past three or four years she has consulted several physicians, who marle unsuccessfal elforts to bring on her "periors." Her mother has also wiod the usual domestie remedies, but likewise without success.

Her history led me to suspect some congenital malformation, and I therefore advised an examuation, to which she reluctantly consented. The points revenled were these:

1. The pudende were entirely devoid of bair.

2 . The vaginue was a mere cut-de-sac, not more thau two inches in length, and there was no evidence of a uterus at its extromity.
3. There was no utertis found after a thorough exploration of the plvis. By cunjoined mani-pulation-the index-finger of the one hand in the rectum and the other band on the hypogas-triun-the excavation of the pelvis could be explored with ease, the patient being vary thin; and not even a rudimentary organ could be letected.
4. I next rxamined for the mamme, and fonnd them wholly undeveloped; and
5. She has never experienced my aphrodisiäi semsations.

Now, judging from her history and what was revealed by the examination, there is not only absence of the uterus, but :llso absence of the ovaries, or they are in an undeveloped state. There being no effort at menstruation (the epistaxis signifying nothing, since it does not oceur periolically), no venereal appetite, and no development of the mammar and pudenda, this conclusion would seem to be warranted.

I ordered a prescription of bromide of potassium and hydrate of chlozal for the headache, and this, as I afterward asceptained. afforded some little relief.

Such cases as the above are extremely rare, though cases of the absenter of the uterus only are more frequently met with. A somewhat similar case was reported to the Royal Acardeny of Medicine in 1826 by Dr. Renauldin. which is the ouly case of the kind 1 have sern recorded. A woman died att the age of tiftytwo years. She hat never menstrated nor experienced any venereal passions, and the hreasts were untiveloper?. At the autonsy only a cervix ateri the size of a writing-yail was foum, but there was n, uterus proper, and the ovaries showed very litede developurat.-... N. Y. Morical .Homoul.

## CASE OF EXCESSIVE PTYALASM DURING PREGNANCY.

Sir,-l tan induced to send the following catse for pernsal by your numerous readers, in the bope of some teathent being suggested by which my patient maty obtain relief.

Mrs--, aged thiry-four. nomber of threr children, and now about six months advanced in her fourth pregnancy, has sutferd (fom the thirl week from conception) extreme distress from a continual flow of saliva, which pours down the corners of her month, so as guite to have excoriated them. The guantity which flows away is alrout three pints daily. i) uring sleep it ceases, but begins agrain an hour or so after awaking. Ju the earlier months womiting was adder to her tronbles, but this has now passed off, but she still suffers from nausea. After meals she comphans of a son taste in her month, hat this merely lasts an how or so. The character of the secretion is quite watery and tasteless. though oceasionally it assumes a thicker condition, and has to be retched or expectorated up from the back of the throat. She has used astringent waters for the mouth, and as she has excessive disiike to taking merliones internally, I suggestal that bellaloma liniment (B.P.) sheuld be rubbed into the submaxillary and parotid glands as well as the epigastrium until she was under its intluence; but
neither of these plans of treatment produced the slightest effect. Her appetite is fairly good.

In the pregnamey previous to this one she sutfered in the same waty from ptyalism; but it did unt commence until after the thind month, and only lasted a few weeks.

I am, Sir, yours de.
July $14 \mathrm{ch}, 1876$.
Inquirens.
** Ptyalism, when it occurs during pregnaucy, usually comes on in the early months, and lasts for about three weeks. In severe cases no treatment seems to have any effect.- HD. Lencel.

The Causes of Sterility.-The two axioms in which the athor, Dr. O. Von Griunewald, of St. Peterslarg, sums ap the views wo which his researches have led him are as follows: 1. Conception is only one link in the chain of phenomena which are involved in the propagation of the species, ant its importance is relatively much less than that of many other vital processes which occur during pregnancy. 2. The womat's capability of maturing the iupregnated ovum is the important element of her reproductive power, and it depends for its part on a certain amount of integrity in the tissues of which the uterus consists. We shall only make oue comment on Dr. Von Griuewald's valuable paper-mamely, that it gives but little encouragement to a mecbanical treatment of the causes of sterility. It rather lends its support to the views of those gynecologists who consider that general remedies which improve the tone of the whole system are as likeiy to be successful in affections of the uterus as in those of other organs.-Med. Times and Gaz.

The Sphophore.--Dr. Woillez, of Paris, has devised an apparatus for the treatment of asphyaia. It consists of a rinc cylinder in which the body of the patient is hermetically inclosed, the head alone projecting. A portion of the air in the cylinder is then exhausied, when the lungs immediately expand, and air is then pumped into the cylinder to cause expuration. The process is repeated at brief intervals.

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## ANALYSIS OF STX NOSTRUMS SOLD AS AGUE-CURES.

by o. l. CHURCHILI., PH. c.
Five of these articles were found to contain one or more of the cinchona alkaloids, (chiefly the cheaper alkaloid); the remaining one contained no alkaloid. None contained arsenic, strychnia, or mercury.

The quantitative determination of the alkaloids, from well known difticulties, is presented as only approximate. The following was the general plan of separation, modified in several particulass, as found necessary for each mixture. From a weighed portion of the mixture, the alcohol, if any, was evaporated; the residue diluted with acidified water and filtered (more than once if need be); the filtrate precipitated by a slight excess of caustic soda; in most cases, the precipitate dissolved in acidified water, the solution concentrated and dissolved with strong alcohol, the filtrate evaporated and the residue dissolved with water. Care was taken to avoid loss, by well washing the residues of extraneous matter, and not washing the precipitates of alkaloids at all or but slightly. Taking a final precipitate by caustio soda, the alkaloids were then approximately separated from each other by the use of ether as a solvent, potassium iodide to precipitate quinidia, potassium sodium tartrate to precipitate cinchonidia, dc.*

1. Ayer's Ague-C'ure.-Each bottle contains six fluid-ounces of a dark red, syrupy liquid, with a very slight white sediment. Taste, very hitter and slightly peppery, with a slight taste and odour of wintergreen oil. An alcoholic extract, (tircture) of cinchona bark, with additional and amorphous cinchona alkaloids (chinoidin), heavily saccharime and slightly aromatizes. It contains, a resin which presented the physical properties and gave apparently the physiological effiects of podophyllum resin, bit it was not so far separated from cinchona constituents as to be positively determined. It has free and combined sulphuric

[^0]acid, and the white sediment is calcium sulphate (from the calciom salts of the bark). In one fluid-ounce


The cost of a bottle will not exceed 35 cents -the price being at wholesale, 65 cents, and at retail, 1 .
2. Wilhoot's Antiperiodic lever and Ague-Cure.-The bottle contains four fluid-ounces of a thin, dark-red liquid, with the odour of cinchona bark, a very bitter and acid taste, and acid reaction. It consists essentially of an infusion of cinchona bark made with water containing aromatic sulphuric acid (like those of the U.S.P.), and probably with an addition of quinia sulphate. One fluid ounce contains 3.0 grains of quinia and 5.4 gra ns of free and combined sulphuric acid ( 1.5 grains free). Cost of a bottle, not over 25 cents; price, $\$ 9$ per dozen, $\$ 1.50$ per bottle.
3. Christie's Ague Mieture.-A bottle contains seven fluid-ounces of a very dark syrupy liquid, one-fourth filled with sediment, and having a very bitter and peppery taste and an odour of common molasses. The sediment was. powdered capsicum and a little resinous matter. The solution consists of a :incture of cinchona bark (the alcohol being 30 per ceur. by weight), with cinchonia sulphate, and common molasses. Cost, not over 25 cents per bottle ; price, at wholesale, 62 cents ; at retail, $\$ 1$.
4. Peterman's Michigun Ague-C'ure.-Each bottle contains five-fluid ounces of a red, syrupy liquid, with much resinous sediment, a very bitter taste, and odour of cinchona. C'ontains an alcoholic extract of the bark, with chinoidin as the chief medicinal agent, and with a little sulphuric acid and syrup. Cost, complete, not over 25 cents per bottle; price, at wholesine, 60 cents; at retail, ${ }^{\text {®n }} 1$.
5. Jayne's Ague Miature.-In each bottle, seven and a half fluid-ounces of a mixture having an odor and taste of rhubarb, dandelion and common molasses. It contains quinia sul-
phate and traces of other cinchona alkaloids, but not enough to render the mixture very bitter. The alkaloids were, with some difficulty, separated by benzine in presence of alkali; other means having failed. Cost, about 35 cents: price, at wholesale, 60 cents ; at retail, $\$ 1$.
6. Rhode's Fever and Ayve-Cure, or Antidote to Malaria.--In each bottle twelve fluid-ounces of a black, turbid liquid, having a sweet and astringent taste. On standing, the sediment filled one-third of the bottle. The sediment is charcoal. The solution contains a little tincture of chloride of irom, partly reduced to. ferrons salt by sugar, which is present ; "also a trace of sulphurio acid (atrite of ferrons sulphate may have been added). Nothing more. "Bottle to be well shaken," etc.: one tablespoonful three times a day. "Most people could take three times the amomnt without any uncomfirtable feelings." "Persons who find it to bring on unwished-for actions, should place the contents of two or more hottles in an open dish in their sleeping apartments." Price, at retail, $\$ 1$.

Treatment of Tetanus by Calabar Bean. -In the "Minor" of the London Lancet (Nos. for Sept. 2nd, 9th, and 16 th, ) is reported the history of three cases of Tetanns, treated at Sth. George's Hospital, in the service of Dr. Dickenson and Mr. Pollock, " with the extract of Calabar Bean, either by intermal administration or subcutaneous injection, or both combined." Two cases recovered. The Editor of the "Mirror" remanks: "That the result in these cases was due to the beneticial influence of the Calabar Bean, it would be useless to attempt to deny. Both patients were, to all appearance, rapidly getting worse, until the administration of the extract of Calabar Bean was begun : from that tine they improved and soon ednpletely recovered. In the thiod case, atthough extract of Calabar Bean was exhibited in large doses, and the system became distinctly affected by the drug, the pationt miortunately suc cumbed. The immediate cause of death was not evident, bat it is worthy of note that the man seemos to breathe freely, and remained conscious up 'o the last." In this last case, between 2.15 p.m., and 6.15 a.m., 934 graius were hypodermically injected.

## EUCALYPTUS GLOBULUS AS A CUBEE FOR IGUE.

BY JOHN CURNOW, M.D., LOND. ,
Pro. pssor of Anatomy in King's College, Assixtunt-Physician to King's College Itospital.
Whilst there is an almost complete unamimity as to the advantageous effect of the cultivation of the eucalyptus tree in the removal of malarial fevers from marshy districts, foreigu observers differ greatly in their estimate of the value of its preparations in the treatment of these diseases, and very few, if any, trials have as yet been made of them in this country. The experiments of Fichter at Basle, and of Hertz at Copenhagen, gave almost negative results; whilst those of Groos in Hungary were extremely favourable. Further investigations are required to clear up these discrepancies, which are doubtless due to the difference of the preparations made use of, and the rarying doses in which the llug was exhibited, as well as to the length of rime that the disease had existed, and perhaps' also to the place of growth of the trees from which the preparations had been made. Hertz thinks that old cases will yield better results than new ones, but that recent ones ure sometimes very speedily cured by this drug is sutticiently evirlent from the notes of the two cases which are appended. The cases came under my care whilstl undertook the temporary charge of the patients at the Seamen's Hospital for my friend Dr. Harry Leach. The results are the more important becanse when I 1 ,rescribed the eucalyptus I was very sceptical as to its value; for, with the exception of the chinchona alkaloids and arsenic, I had always before observed a signal failure of the numerous alleged remedies for intermittents. Amongst these were the sulphites of magnesia and sod:, salicin, sulphate of beberia, picrate of potash, dec., and they had all been administered most freely. Moreover, both patients were under observation for some day's before the medicine was exinibited, in order that the severity of the cases might be properly estimated, and that no fallacy might arise from the spontaneous subsidence of the disease, as occasionally occurs from a change of residence. The preparation of eucalyptus that I used was the tincture made by Messrs. Savory and Moore, and, except an agreeable feeling of
warmth in the mouth and pharynx, no appreciable effects but the rapid cure of the fever were noticed.

I had hoped to have made a more extended trial of the drug before publishing these cases; but ague is so very seldom seen in London that it may be a considerable period before I have another opportunity, and wider and more exact experiences can be so readily obtained in districts where malarial affections are endemic that 1 have thought it better to record them at once.

Чase 1.—S S.—, aged eighteen, a Norwegian, was admitted May 23rd, 1876. He had been suffering from intermittent fever for four or tive weeks. The attacks were moderately severe and of a well-marked tertian type. An expectant plan of treatment was pursued until June 9th, and during this perion the paroxysms recurred on alternate days with the utmost regularity. They began at 10 A.m., reached their acme between 1.30 and 3 p.s., and passed off about 6 P.m.; thus fasting about eight hours. The highest temperatures varied from $1.04 .8^{\circ}$ to $105 \cdot 6^{\circ}$. On June 9 th the tincture of the encalyp, as globulus was given in one-drachn doses three times daily. The next day, on which another attack was due, histemperature only rose to $100^{\circ}$, and on the 12 th to $100 \cdot 4^{\circ}$; and after this date no furbut paroxysm wecured during the remainder of his stay in the hospital. On physical examination, a systolic bruit was heard over the apex of the hoart, but this wasevidently of some standing, and had so far: given rise to no symptoms. The splenic duhess was normal.

Case 2.-C. O-_, aged forty, a Dane, was admitted on June 19th, 1876 . The attack commenced on June 14th, and was of the ordinary tertiun type. The paroxyms were very severe, and extended over nearly twelve hours on an average. On June 27 th. the temperature was carefully taken at short intervals by Mr . Lacy, the house-physician. At 10.30 A.m. it was normal, at 11.30 it had risen slightly, and soon after rigurs set in ; at 12.40 p.3. it was $101.6^{\circ}$, at 2.20 P.m. $105 \cdot 6^{\circ}$, at 2.40 P.м. it had reacher its highest point, $106.4^{\circ}$, at 3 p.s, it had fallen to $105 \cdot 4^{\circ}$, at 6 ع.M. to $101 \cdot 4^{\circ}$, at 9 p.M. to $100^{\circ}$, and at midnight it was still above normal at $99 \cdot 2^{\circ}$. The fit on the 29 th was quite as severe.

On July 1st, just before the next attack was due, the expectant plan of treatment which had hitherto heen pursued was given up, and the tincture of the eucalyptus exhihited in drachm doses three times a day. The next two paroxysms were much shortened in length, and the temperature did not rise quite so high. On the 0th the dose was increased to two drachms three times daily, and he lad his last attack on the next day. He was kept under olservation mutil July 15 th, and continued aking the medicine up to that date. This patient's splenic duluess was increased in extent, and the edge could jast be fell. He had satfered from an attack of ague nine years before.

QUINTNE IN SURGICAL AFFECTIONS.
M. Verneuil, the well-known surgeon of La Pitiè Hospital, lately delivered an interesting lecture on the atility of quinine in surgical affections. He referred to several cases in his wards in illustration of the efficacy of this most valuable remedy in all atfections in which the element $p$ ritin is one of the conspicnous symptoms. Thns, for instince, in two cases of cancer of the nterus. M. Verueuil succeeded in relieving the excruciating pain characteristic of the disease by the administration of the sulphate of quinine after having failed to afford the desired relief by the other means usually employed in such cases.
M. Verneuil then summed up by announcing that the sulphate of quinine would be found particularly useful in all casess of an ataxic or adynamic nature, in neuropathic affections, and in septicemia. [a ataxic cases the lecturer istated that it was not necessary that the symptoms should he of an intermittent character to justify the administration of the drug ; and as for rewopathic affections: no remedy can compare with it in these calses. He has found it particularly asefal after operations on the eye, and in septicamia its efticacy is madeniable.
M. Verneuil explains its action thus in the latter affection: it diminishes the pus-forming process, and atts as a correcive of the septic elements generated at the seat of the lesion, whether caused by the surgeon's knife or by accident. Here the sulphate of quinine is doubly useful, not only on account of the above properties, but even when employed locally it acts as a powerful antiseptic.-British Medical Founal.

## VIBURNUM PRUNIFOLIUM ; ITS USES

IN THE TREATMENT OF DISEASES OF WOMEN, AND TO PREVEN'T ABORTION.

Dr. E. W. Jenks, of Detroit, read a paper on the subject of Viburnum prunifolium, or black haw. The virtue attributed to it was that it prevented abortions, by some sedative or other action on the uterus. The drug had been extensively used in the South by Dr. Faris, of Mississippi, with marked success. Dr. Jenks had used it in a hundred cases of suspected abortion, and had found that it was an agent to be depended on. The reason of embodying his experience in a paper was because of ignorance on the subject of a large number of his fellow-practitioners. The method of administration was to give from half a drachm to a drachm of the fluid extract of the bark for a few days before and a few days after the menstrual epoch. The action seemed to be directly the reverse of that of ergot. He had used it also with benefit in menorrhagia coming on at the menopause, and had found it to be very serviceable in dysmenorrhea where there was no mechanical cause of obstruction.

Dr. Jenks presented some specimens of the bark of the plant, and said that he had found that the bark of other species of viburnum, as well as that of wild-cherry, had been used by the druggist, either wilfully or through ignorance. Dr. Bates, of New York, said he had been in the habit for some time of using viburnum. His attention had first been directed to it by reading an account of its properties in an eclectic periodical. The class of cases in which he had used it was those in which the abortion had become habitual. Ho was convinced that it was an agent of decided importince. The fluid extract could be obtained in this city. He had used the resinoid manufactured by Keith \& Co., in doses of from two to four grains. The resinoid seemed to be as efficacious as the fluid preparation. Dr. White, of Buato, said the memhers of the Society would in all probability act personally on the suggestions of Dr. Jenks' paper, and be able to report on their experience at the next meeting. In reply to a question from Dr. Mundé, Dr. Jenks said it took the place of opium in controlling uterine action, while at the same time it was an agreeable tonic. His use of the drug had been empirical, and he was not prepared to give its physiological action.-N. Y. Med. Tour.

## BROMIDE OF POTASSIUM AS A CAUSTIC.

In a paper read at the recent meeting of the French Association for the advancement of $\mathrm{Sci}-$ ence, M. Peyrand, of Libourne, claims for bromide of potassium certain properties hitherto but slightly recoguized-properties which will extend the already wide tange of the therapeutical uses of this salt. He found that subentaneous injection in rabbits of concentrated solutions of the salt led to sloughing of the skin, and from this he was led to try the value of what he considered to be the escharotic properties of bromide of potassium upon malignant and other growths, either by means of injections into the tumour or by the application of the powdered salt to a raw surface. The action of the salt is completely resisted by the tegument. His first clinical experiment on the subject took place in April, 1874, when, by means of daily applications of powdered bromide, he effected the removal within twenty-eight days of an epitheliomatous growth on the face. He has since had equally good results from this treatment of atonic ulcers of the legs, rapid cicatrisation following the separation of sloughs produced by the application. In such cases he uses either the powder or an ointment of one part in five, or a mixture (one in ten) of glycerine and the bromide, In many skin affections, as chronic eczema, pityriasis, and acne, in phagedæna, ulcerative stomatitis, and many other local inflammatory disorders, he has found it of use. As a local hæmostatic, a solution of one in fifty has served for epistaxis, and as a general hremostatic its success in many cases of hamoptysis and metrrorhagia was very marked, where ergot. perchloride of iron, and rhatany had failed.

Physiological Action of Condurango.Dr. T. Latuder Bruuton has published in our excellent cotemporary, the Journa! of Anatomy and Physiology (April, 1876), a number of experiments instituted by him to determine the physiological action of condurango. "The general result of all these experiments is that condurango is physiologically inert."

## SANTONIN.

There is probably no anthelmintic so popular with general practitioners as santonin. It must however, be within the cognisance of many that somwhat small doses have produced convulsions of a somewhat grave character. A German contempotary lately reported a case in which poisonous effects were proluced in a child two years old by the iugestion of so small a dose as a grain and a-half. Convulsions commenced in the face, and extended to the extremities, while the respiratory action was greatly inpeded. Under wam baths, enemata, and artificial respiration, the patient recovered. The physician in charge of the case then instituted a series of experiments on the jower animals, and found that chloral and ether inhalations controlled the convulsions produced by suntonin. He naturally argues that the same treatment should be pursued in the human sabject when a poisonous dose is taken. - Lancet.

Bromohydric Acid.-Dr. Milner Fothergill, in a short communication to the British Medical Jouriul, states that the acid can be obtained by dissolving ten ounces, six drachms, twentyeight grains of potassium bromide in four pints of water, and adding thirteen ounces, onc drachm, thirty seven grains of tartatic acid. The bitartrate of potash is precipitated and the hydrobromic acid remains in a clear, bright, almost colourless finid, possessing an acid taste and the ordindry acid properties as well as the peculiar properties of potassium bromide, as compared with any other salt of potash. Dr. Fothergill has had a twelve-months' experience of the drug. It prevents, he finds, the occurrence of headache, which some people suffer from, after taking a dose of quinine. It is useful in nerrous contiitions, and, combined with quinine, is excellent in those cases where there is much nerrous exhaustion from excessive indulgence in téa or in alcohol. It proves vary serviceable in forms of excited action of the heart comected with general nerrous excitability or nervous exhaustion. Given with quinine (ot which it is a capital solvent) it gives better results than the bromide of potassium
and digitalis. In all hysterical conditions, connected with ovarian excitement, it seems to have all the properties of the bromide of potassium. It is equally useful in the vomiting of pregnancy, and seems to exercise quite as powerful an infurence over acts of reflex origin as does the bromide. It is especially adapted for the reliof of hemorrhage associated with sexual excitement, and is even more effective here than the bromides themselves. It is also of use in whooping-cough, combining conveniently with quinine. With spirits of chloroform and syrup of squills it forms a most agreeable and palatable cough mixture. Where there is gastric irritability it is the most useful of all acids. The dose, prepared as above, is one drachun as a full dose.-Britioh Medical . Гournal, July 8.)

The Lrevention of Masturbation.-This injurious habit is often most difficult to break. Dr. Yellowlees, of Glasgow, speaks of a mode he had tried in a dozen cases, and so far as it lad gone he was very much satisfied with the results. The oldest case was eighteen days. The suggestion was founded upen the anatomical fact that the prepuce was anatomically necessary for the erection of the penis. Its anatomical use was to give a cover for the increased size of the organ. If you prevented the prepuce going to that use, you would make erection so painful that it would be pactically impossible, and emission therefore extremely unlikely. What he had done was to deal with the prepuce at the very root of the glans, to pieree it with an ordinary silver wire, the ends of which he tied together. He had the case of a lad who was so extremely addicted to masturbation that his mother begged him to do what he could to prevent it. He used the apparatus first in the case of this boy with most excellent results. He had been masturbating night and day, and he was now so well that he was working as a carpenter. Dr. Yellowless said further that he had eleven more patients all going about with wires in their penises. There was only one case where he had to take it off, the wire causing a good deal of irritation.-Medical and Surgical Reporter.

## ©ramsiations.

## Abscess of Liver taken for a Purulent <br> Pleurisy, Thoracentesis.

## From Lee Progres Medical.

On 29th July, 1875, a man named C. Felix, thirty-one yeurs of age, entered the wards of M. Guyot ; he was a turner by trade; had always been healthy, but now complained of a violent stitch in the right side, accompanied with cough, and fever at night. Six weeks proviously he entered the Hospital Beaujon for this pain, and, went out fifteen days later much relieved. He had been treated, according to his own account, for a dry pleurisy, and a large blister had been applied on his right side. On his admission there existed a tolerably large swelling extending backwards and to the right on a level with the 7thand 8th ribs; the swelling was painful on presșure, but devoid of either heat or redness of the skin. On percussion there appeared dulness over the lower fourth of right lung, together with absence of the vesicular murmur, and no friction. The thoracic vibrations were defective in the lower quarter of both sides of the chest. The live appeared to be slightly depressed. The patient was fererish (axillary temperature $39^{\circ} \cdot 3$ ); tongue white, appetite gone.

August 6th. Fever persists, the intumescence of right side increasing and affording a very clear sensation of fluctuation; the trocar of Potain's. apparatus was thrust into the middle of the swelling, and some drops of pus ran out; the trocar was withdrawn, and is free opening made with a bistouiy. The thoracentesis was made in the 9 th intercostal space, and gave vent to a half-litre of badly formed pus, but without odor. Irrigations were performed uwice a day by means of Potuin's apparatus. During the first fifteen days after the operation the patient regained strength, the appetite was excellent, and everything gave promise of a speedy cure. Not more than 40 or 50 grammes of fluid could be made to enter the purulent cavity, but the fluid which returned was always coloured with blood:

In the begiuning of the month of September; there was a return of the night-fever (night sweats ?) :und the appetite diminisined ; the patient complained constantly of a violent pain in
the side ; he subsequently sustained a diarrhœa which nothing was able to control, and in the end he succumbed to marasmus, on the 26 th October, 1875. The autopsy was made fortyeight hours after death. Oin opening the thorax the pleurae were found slightly adherent, but not sufficiently to prevent the allhesions being broken down by the hapd, similar to those which are met with in uearly all neeropsies. The right lung was slightly shoved up by the liver, was large and dallern $n^{\dagger}$ ly its right margin to the ribs, un adhesion which was broken down in making taxtion on its ifft margin. It then presented on it sighr surface a large vegetation, with a central cavity ommunicating directly with the upening of the external wound. This cavity with its fuugous, grisly, sprouting edges would contain a large lien's egg. The hepatic peritoneum was healthy throughout the rest of its extent. In cutting into the liver on a level with this excrescence it was sten to extend into the hepatic tissue for a depth of two or three centimetres, and io present in this plane a greenisll-grey colour, then the liver tissue appeared of its natural colour. The liver was fat, and presented in its substance two or three abscesses cuntaining laudable pus within organized walls. The microscope showed that these membranes were formed of lamellated coats of connective tissue, with some fell commective tissue cells. No trace was found of echinococeus hooklets. Some greyish friable concretions of the size of a peat were moseor-r found scattered thoughout the hepatic parenchyma. The right kiduey was enlarged, encapsuled in a shell of false membranes; at the pelvis it was anæmic and fat. The state of the left kidncy was similar, but its'capsole was healthy. The lungs were emphysematous. Tisceial p ericardium showed some white patches; nothịng in endo cardium. Spleen nomal.

## On Blisters in Pleurisy.

PAR. DR. DESNIER. (Froia Ie Paris Medicali)
"According to M. Besnier, blisters are exceedingly eflicacious in pleurisy, provided that they are had recourse to it at thie outset of the disease, or as soon after as jossible.

This means gives medium results when they are employed late, that is to say, at the fall of the fever, as is the ordinary practice. M. Besnier jrescribes no other treatment, and so far he has obtained with it the most satisfactory results, not only in the ordinary practice of the cily, bat also in the department of cluarity, that is to say, amongst a population which furnishes in the civil huspitals the most cases of pleurisy for thoracentesis. A blister applied thus early, at the beginning of the attack, is not prejndicial, and aggmates neitier the general nor the local symptoms. The: febrile movement produced by the blister is only transient and cannot at all effect that of the disease; besides that. injurions influence could not we explatined, either by the reaction called forth by the irritation of the skin, or by that which would be caused by irritation of the kidney. In all times, whisters have been had recourse to in spite of febrile movement both in the malignant fevers, and in acote phlegmasias of all kinds. The experiments, reported in 1874 to the Riological Society by Dr. Gallipe. contirm the view of the Italian School, which regards this substance as a cardiac-vascular and antipyretic agent; the blister, far from being a cause of increase in the fever of the disease, would rather, in a given time, exercise a general, sedative action calculated to allay it (the fever) ; in any case, these experimental data are a prof much in favom of the innocuity of this means of treatment, so far as fehrile complications are concerned. As to the local symptoms, if it somerimes happen that these resist the action of the blister and appear to be aggravated by it, this aggravation ought to be regarded as the effect of the disease and not of the blister, since this is much more frequently observed after the other forms of treatment, and when the inflammation has been left to itself. M. Besnier brought before the "Societé Medicale d'Emulation" the last four cases of acute plewisy that he happened to treat in the first quarter of the year, and in which reṣolution had been obtained by one or two blisters in the course of from eight to fifteen hours ; in one instance it was a case of pleurisy supervening in a consumptive, in the other, a pleurisy which appeared in au individual who had already had the same affection in the same
side; the former attack having only disappeared after three months of treatment, and after the late application of nine blisters.

To conclude: M. J. Besnier does not pretend that this early application of the blister will be ablo to do a way with thoracentesis altogether, but he hopes that such will be the case in the majority of instances.

## Treatment of Typhoid Fever. <br> (From Paris Medical.)

Une can see in the mortality tables how large a uumber of deaths typhoid ferer has caused in Panis during the last few weeks; and as the epidemic is not yet actually extinct some notes on the treatment of the fever will not be devoid of usefulness.

The experience of a large number of clinicians of various countries has fully established this fact, that the majosity of the grave symptoms of typhoid fever can be controlled, and that the rate of mortality diminishes when the temperature of the body is systematically reduced. The statistics of a very large number of cases demonstrate the truth of this proposition. The numbers furnished by Liebermeister will serve as an example. Of 1,718 cases first observed in the hospital of Bale (Basle) and treated by varions methods, the mortality was 27 per cent., whilst of the 1.121 cases treated by the antipyretic method, that is to say, by a method d-signed to systernatically lower the temperature of the body, the mortality has been 8 per cent. During the treatment, relying for the most part upon the expectant method, it is observed that amongst those patients whose temperature is maintained at $40^{\circ}$, ten per cent. succumb. The best means of reducing the temperature of the body has appeared to be the cold bath at $20^{\circ}$, lasting from 10 to 20 minutes, and repated every time the temperature rises to $38^{\circ} 8$ or $39^{\circ}$.

Next to the baths are to be ranked the febrifuges, of which quinine and sulphuric acid are the best. The sulphate of quinine is largely employed by the German physicians. and they insist upon the necessity of giving the remedy in large doses. Liebermeister attaches a great deal of importance to this particular, in 1,500 cases of typhoid fever he has employed quinine in doses of from 20 to 25 grains without causing any
appreciable unpleasantness. By giving from 20 to 40 grains at a time. or in the course of an hour, the trmperature is reduced several degrees, sometimes even to the normal standard, sometimes below, in the course of 12 hours. The temperature gradually rises again. If the toxic effects of sulphate of quinine be noticed it is necessary to allow 48 hours to elapse before recommencing its use,

For a year ar two, the German physicians bave been largely using Salicylic Acid as a substituce for quinine. Care must be taken that this acid is very pure. The remedy is given in doses of from 60 to 70 grains ; this dose may be repeated the same day, if necessary, or be replaced by the Salicylate of Sodium, a soluble salu which readily supplies the place of the acid. A remission of the femrile symptoms is usualiy observed in the course of three or four hours after the absorption of the meaicine; the temperature talls gradually from one to several degrees, and often reaches the normal standard; afterwards it rises somewhat again, but then a smaller dose, from 30 to 50 grains, is sufficient to secure fresh remissions. One point, which is not to be despised, is that the price of Salicylic Acid is about a quarter of that of Sulphate of Quiaine.

## Thentiment of Carbuincle.

(From the Paris Medical.)
M. Jules Guérin wishes to save all carbuncles from the bistoury: this is the sulject of a mote he read at the "Académie de Médecine" at its last session. To his mind, all the occurrences which constitute the accidenial malignity of carbatacle are the result of the absorption of septic fluids contaned in the centre of the swelling ; the indication, then, to be fulfilled is to prevent and neutralize the septic decomposition of indurations and pus in the carbuncle, and, on the other hand, to stop the decomposed matexial in its course, with a view of preventing local and systemic infection. To this end, M. Jules Guerin applies to the anthrax a large blister perforated in its centre, to permit of appropriate, topical applications for the neutralization of the septic germ, at the same time that they prevent its dissemination. This application has for its immediate object the mitigation of all the
symptoms, the relief of the pain, the diminution of the hardness and redness of the swelling, in a word, its conversion into a i,enign and inert tumour, whose enucleation, if it be permitted, fromoted by the ordinary means, takes place without any necessity for having recourse to the employment of the knife. If, after the evacuation of the matter has been completed, there remain a deep excavation, it is useful to paint the cavity withe a solution of mitrate of silver, wilis a view of provoking the ubiiteration of the vascuiar orifices opening on whe surface of the excavation, and of thus preventiug the absurption of the transformed fluids. A boil is, in che author's opinion, only a " reduced carbuncie ;" the same treatmen is apphicable to it, and is no less successful. What is the mode of action of the blister? La carbuncle, as in all cases where there is inoculation by transformed, morbid fluids, it is on aceount of the penetration of these fluids that the surrounding parts swell and inflame, and, according to M. Jules Guérin, the blister only acts in these cases by arresting resorptiou, by giving issue to the infected Huid, by depleting the parts that have been invaded by it and by causing its arrest.

Imbued with this idea, M. Jules Guérin has made a multitude of abortive applications of the blister in exysipelas, in malignant pustule, and, like Dr. Grzymala, of whom we lately spoke, in inll cases whure an inflammatory intumescence develops itself around a focus of suppuration or around a deposit of some morbid material.

## Fracture of the Skull, Laceration of the Meningrs and Escape of Cerebral Sub-stance-Recovery.

Dr. Sante Simeoni (in the Gaz. Med. Itnl.) records the case of a boy aged 14 , of rather miserable constitution; pale skin, lymphatic temperament, light complexion, head large, almost hydrocephalic. He fell some ten feet, head foremost, striking on a small projecting stone. He did not lose consciousness, and at the time felt no pain, he rose with assistance and sat down. On examination the integnments over the left outer superior edge of the frontal bone were found divided by a wound
nearly four inches long, leaving a space tilled with brain matter, squeezed eut; deeper down is felt a depressed semi-circular fracture, convexity towards the right. The piece is fractured all aroind, but the greatest depression (nearly an inch) was at the right edge. It is about $t$ inches loug, bared, firm and immovable. Small fragments surround the escaped brain matter. The quantity of the latter (some on the ground) is that of a len's egg.

Dr. Simeoni firss and Dr. Messedagha afterwards tried to elevate the fragment, but not succeeding by measures justifiable under the circumstances, the case was treated by wet cloths, tightly inandaged on, and kept cold by a bladder of ice. The boy had walked ap stairs to bed by himself. No untoward symptom except a little fever on the evenings of the second, third and fourth days. In the daily injections a white, rather flnid, pus would come out mixed with little pieces of brain, some dead and some unchanged, while the boy would eat his sweetmeats.
"On the depressed piece, althongh largely "denuded, as on a meadow which becomes "covered with flowers, little red tufts sprung "up everywhere, and transformed completely " the poor bald hollow into a red concave field, " on which stood in relief that white intertwin"ing of inert brain matter," which was gradually washed away without making any effort at repair. The cavity was thus filled up by cmulation, and at the time of writing was cicaunc.: "ver, the boy being out to play on the 23rd diay.

Insufflation and Continuous Pressure to Facilitate Certan Surgical Operations.

In a recent number of the Gaz. Med. Ital. we find the following:-"Under the above title "Dr. Julian Aguilas published in the Reone "Medico-Choringicale of Buenos Ayres, a new "operative procedure employed in that city. " Insuffiation consists of the introduction of a " certain quantity of air into the subcutaneous "and iatra (inter ?) muscular cellnlar tissue, "rendering more easy certain operations, espe"cially the extirpation of tumours." The method of using it is simple: A fold of skin is
caught up by Pean's forceps and perforated, and air is slowly pumped in by a force pump at the will of the operator. The same method holds good for the deeper Jayers. The different layers of tissue are thus separated the one from the other. Under the skin we find layers of cellular tissue more or less abundant, the succession of which does not vary with the morbid products; they are isolated by this method by means of a layer of air, and, the first incision being made, the finger of the operator does the rest. When the operation is to be made in very vascular regions, or the disease has invaded importantorgans, insulthation frees from the dangers inherent to operative procedures. If the principal vessels of the region, arteries or veins, or the nerves are involved in the degeneration, one finds all around them a layer of inflated cellular tissue, which facilitates their dissection; the same is true of tendons.

If the operation is in the neighborhood of organs which might bo casily injured, as the intestines, in strangulated hernia, inflation renders great service. One of the great inconveniences of this method is the artificial emphysema, which is produced by the insufticiency of means limiting it : but in this case we have never, says the mathor, observed ill effects. Along with this method the author, to arrest hamorrhage, employs the continnous pressure by means of Pean's apparatus. - Tribune Med.

## Physioloillal Action of Vanadium.

Priestly Platts arrives at the following conclusions :-lst. Vanadiate of soda acts on the vaso-motor nervous centre, and on the intracardiac nervous graglia; produces diminution of the vascular tension, and renders the pulse weak, irregular and intermittent. -nd. It acts on the respiatory centres ; at first accelerates the respirations, then diminishes them and renders them nore or less intermittent. 3rd. It is without effect on the nerve trunks and their terminal expansions, but exercises its action on the spinal centre. 4th. It does not act in any way on the muscular fibres. (Gaz. Med. de Bordeaux.)

## Ciaplllary Puncture of the Bladder.

(From the Paris Medical.)
Dr. Edward Martelli, Surgeon to the Hospital of Novaro (Italy), has practised capillary puncture of the bladder eleven cimes in tive days in a man suffering from ischuria, the result of hypertrophy of the prostate and associated with false passigeses in the urethra. $\mathrm{T}^{\text {the }}$ first puncture was marle ou the 19th of April, 1876, at 10 o'cluck in the norning; the second at 10 in the evening; the third during the night; punctures were again made, with Dieulafoy's aspirator twice on the $20 \mathrm{hh}, 22 \mathrm{nd}$; 23 rd , and 94 th.
Dr. Martelli, who had not succeeded in passing any sound before the tirst operation, was able to introduce a No. 2 gum-lastic after the 11 th. This sound was allowed to remain in for three days. Before passing a larger sound into the bladder, M. Martelli desired to allow his patient to rest. He spontaneously voided some drops of urine; later, the stream of water became normal. In the end of May, M. Martelli stated that the patient had micturated easily and plentifully since he left the hospital (Gazzettia delle Cliniche, Torino).
This clinical fact demonstrates the harmlessness of capillary punctures of the bladder, but it mentally occasions the reflection that the obstacle to the introduction of the bongies could not have been a very serions one. Since atter a No. 2 soum had been permitted to remain in the urethra for three days, the urethra regained its permeability. An operation, be it never so simple, is never entirelydevoid of a certain amount of danger. Something evidently escapes us in this report; for the surgeon of the hospital. of Novaro ought to have had very good reasons for doing this operation, which do not appear in the report.

Cyanide of Zinc in Acute Articular Rheumatism.

Translated from the Paris Medical.
The Cyanide of Zinc has been administered in nine cases, in doses not exceeding five centi-
grammes in the twenty-foit hours, according to the following prescription :-

Cyanide of Zinc, 5 millegrammes.
Gum Arabic.
Sugar of Milk, āa 9 centigrammes.
To be made into one pill ; two to tive of the pills to be administered daily.
M. Deschamps gives the results of nine cases, and makes the following remarks :-
"That the Cyanide of Zinc, in small doses, has proved a valuable romedy in acute articular rhemmatism. Under its inHuence the pulse hats rapidly lowered, sometimes even most remarkably; the pain has speedily diminished, but the temperature has not been lowered. On the second or thirl day there has always been an exaltation of temperature, notwithstanding that the pulse bas been lowered in frequency.

Business Management.-Twenty-two physicians of Meadville, Pa., and vicinity, have adopsed what appearrs to us a sensible and proper expedient to prevent unworthy patients cheating the doctor. Their action is shown in the following resolutions:-

Resolved, by the physicians of Meadville, that we, and each of us, will, within thirty days from date, furnish our accountinnt, Esq., a complete list of our delinquents belonging to the class referred to.
Resolved, That Mr. - is hereby authorized to notify each of said. delinquents, by printed circular, of such delinquency, the amount of arrears, and to whom due, with the information that ir these arrears are not paid or satisfactorily arranged within thirty days from date of such notice, their names will appear on the general printed black list.
Resolved, That the undersigned hereby pledge themselves not to give preseriptions, medical advice or attention to those who permit their names to appear on said black list, unless the payment of the fee shall be secured before such serrices are rendered.

Resolved, That nothing in the above shall apply to those who are not able to pay, or interfere in any manner with that work of charity which every humane and honourable medical man delights to perform.
(So say we.-Ed.)

# THE CANADIAN Iourtal of Iydicial frimur, 

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

To Correspondents.- We shatl be glaa to rewive from our friends everywhere, current medical news of seainerel interest. Secretaries of Connty or Territorial medicai associations will oblige by serading their addresses to the corresponding catior.

TORONTO, NOVEMBER, 1876.

## TO OUR SUBSCRIDERS.

We Whall be glad to hear from those who have not yet paid their annual subscriptions. We cannot afford to sead the Journal gratis, and as the end of the year approaches printers' bills must he paid. Accounts will be enclosed to each subscriber ucxt month, but we trust that few will need that intimation of their indebtedness to us. Our expenses are heavy, and even the great appreciation which has rewarded our efforts, gratifying as it is, is bardly substantial enough to meet them.

## PGYSICLANS HOLIDAYS.

A short paragraph in our last issue headed "Premature mental decay," should be regarded thoughtfully by a large number of our readers.

There is no human occupation which taxes the vital energies equal to the practice of medicine. A physician, engaged in a lucrative, general practice, is often regarded with envy by his less favoured conpeers, bui it is a question if he is not rather to be pitied than envied.

There is no doubt we may have too much of a good thing, and while it is very gratifying to be in receipt of a large income, yet if that income is secured, as it must be in our profession, at the expense of every home comfort, of necessary rest, constant mental anxiety, fatigue and annoyance, only to culminate in premature mental decay, and early death, then we say, that man is hest off who has only a moderate share of the world's good things. It is far better to practise a little economy in
order to make ends meet and provide for a growing family out of a moderate income. There is no calling under the sun wherein haste to get rich is more fatal and likely to he followed by more disastrous results than in the practice of medicine.

In the severe study imperatively required to secure an honourable position in the profession and the constant application of the mind in one line of thought, entailed by the close pursuit of a large medical pactice, we have just the conditions most favourable for a premature hreak down in the delicate mechanism of the human brain and body. We do unt say that close mental work, howerer severe, if there be variety enough, is likely to bring premature decay, but we do assert that the constant drudgery of our profession has such a tendency to the exercise of one set of taculties and the development of one train of thought, that unless we forcibly take ourselves away, into some other field of thought or play, we shall certainly rue the day when we refused to hoar the admonitions of prudence and frionds. We believe it is far better to charge more, if need be, and do less, and take time for recreation and rest, than to go on foolishly at high pressure. "till the silver cord be broken," and our families left alone whon they most need our presence and counsel.
"My parting words of advice ate, never mind at what loss, take your six weeks of holiday," said Dr. Golding Bird a short time before his death, at the eurly age of forty, after he had secured a reputation and an income rarely equalled, in our profession. What a pity he had not acted upon his own advice, but like somo we know, he could not believe that hard work and close application wonld injure him, till too late.

Sir Henry Holland made it a rule to take two months every year for travel and change, and he has said he never lost a patient ly it and often began a full round of visiting from the railway station on his return, before reaching his own bouse. All may not be so fortunate as Sir Henry, who was born under a particularly lucky star, but we know, from a personal experience of many years, that a physician can take his annual holiday of three, six, or eight
weeks without losing a single patient worth retaining, and with the most beneficial influence on his own health and life, and with great advantage to his clients.

We all know how hale and hearty Sir Hemry Holland and Lord Palmerston were at threescore years and ten, ind it is a matter of history how hard they worked and how regularly they played.

An editorial in the London Lancelt for sepzember ligth, muder the caption of "A Medical Vocation," is so preguant with truths and wholesomeadronition of paranomtimportance, not only to the profession at large, hat, and especially, to those upon the threshold of its pursuit who are about to east in their lot with the mauv young arpirants of utility or fame who already crowd the a venues to that walk of life, and who are continnously waging an unequal strife against circumstances and contingencies which must inevitably predominate over the great majority in the end, that we cannot refrain from, and make no apology for, inserting a large quotation.
"The prizes within reach of the medical profession are not rich, and they fall to the lot of few. An equal amount of labour expended in almost any other department of energy will secure a better return. Looking to the simply worldly rewards of medical industry, it is strange that any well-meauing counsellor should insti gate a youth with no particular ambition to distinguish himself in the applied science of physie, to choose the profession of medicine as a career. It cannot be an agreeable occupation to those who discern nothing beyond the daily duties of the physician and surgeon, and it will probably prove so distasteful to the uninspired practitioner as to destroy his chances of even average success. . . . . It is impossible to put the case too strongly, and we would ask chose upon whom devolves the responsibility of advising or permitting an unwilling or apathetic choice of the profession to look once more around, and at the prospects before them, before it is too late to avoid a false step, which may land the victim of mistake or unwise influences in life-long discomtiture.
"Each year makes the financial success of a
routine practitioner in medicine more improbable, and it is the hope and aim of genuine professors of the science and art of physic and surgery to render this low form of success speeaily unattainable. . . . It is not alone that the examination tests are being augmented in severity, a new mode of higher intelligence, and more exacting, is begiming to replace the old method of practice in all its grades and branches.
" Lev che friemels and advisers of youths athoui to enter the state of medical pupilage fully recognise the responsibility they are about to thrust apou them. Unfortunately there is no 'noviciate,'andseldom an opportunity of retreat after the choice of a profession, and that to which these young men ture devoting themselves is of necessity so exclusive--so fenced about with preliminary branches of study and shat out from view-that, possibly, not one man in a score clearly understands the future to which he is committing himself until some of the best years of his life have been spent in preparation for its practical duties, and in ignorance of its cares, its obligations, and its ever-increasing and heightening responsibilities. [t is not only because medicine cannot he advancel by unambitious and unskilled professors, we thus speak, bat men entering the profession without enthusiasm and a constraining love of enterprise in science cannot succeed: and their failure brings discredit on unr cratt, bitter disappointment to minds crippled by a first mistake, while lives are blighted which might have been happy and useful if the hegmer had been better advised."

Words of ours can add nothing to this powerful, earnest and spirited appeal to the reason and common sense of those concemed; and we, cherefore, sind it forth to our readers withuat further comment than the assurance, to those who are not fully coguizant of the fact, that every word which we have yuoted is as applicable to our own condition as to that of the profession in the Motherland-eirnestly commending the facts therein set forth to the careful attention and deep reflection of all.

At a meeting of the New York Academy of Medicine, on September 2lst., the inhalation of 4 or 5 drops of Nitrite of Amyl was strongly recommended as an antidote in Chloroform Narcosis.

## Sook datices.

The Collateral Circulation in Aneurism. By A. W. Smyth, M.D., New Orleans.

Intra-Pelvic Phlefmonous Tumour. By Edward J. Bermingham, M.D., New York.

Proceedings of the Medical Socitty of the County of King, Brooklyn, N. Y.

Atlas of Skin Diseases. By Louis A. Duhring, M.D., Professor of Skin Diseases in the Hospital of the University of Pennsylvania.
J. B. Lippincott \& Co., Philadelphia.

Pari first contains four plates, viz, eczema, (erythematosum), Psoriasis, Lupus erythematosus, and Syphiloderma (pustulosum). The Atlas will appear quarterly, with text explanatory of the case represented, dc., and will be completed in eight or ten parts. The illnstrations are chromo-lithographs painted from life, and nearly life-size. They are admirably executed, and will enable American practitioners to beconie familiar with the appearances of those diseases of the skin which are most commonly met with on this side of the Atlantic.

Longevity of Jews.-Its Causes.--These are stated by the London Medical Record as follows:

1. Keepiny of two Sundays in a week, besides which Cbristian and political holidays. Thus they have about twice as many days of rest as Christians.
2. Their employments are devoid of hazurd as they do not engage in mining, mechanics, etc.
3. Dietetics, as enforced by biblical and traditional commands, are favourable to longevity.
4. The sentiment de la famille is better developed in the. Jews than in the Christians. This assures to children, and aged and infirm parents a more active solicitude, to the newborn a mother's nursing, to the poor a more efficient assistance.

Their charity is unequalled, their morality demonstrated by judicial statistics. Their profound faith in Providence gives them a marked serenity of spirit and firmness of character. They rarely use alcoholic liquors to excess. They seldom marry out of their own race, and have little hereditary disease.

## entisteltareous.

Sir Whlian Fercusson.--We are glad to hear that Sir William Fergusson continues to regain strength, and, on the whole, maintains his ground. He intends to return to Jondou about the second week of October:-Lancet.

The Centennial Woman in Politics and Medirine.-It was a Kentucky statesmai, Dr. Henry Watterson, who this yoar laid down the broad principle of Parliamentary law that no question is in order while a lady has the floor. Now comes the Philadelphia Reporter, and informs a correspondent that he not only has a right to consult with female pactitioners, hut is apt to be much improved thereby.

Sickness at Different Ages.-Dr. Reginald Southey has recently been delivering a course of valuable lectures on "Individual Hygiene" in London, and in one he introduced a table of "Expectation of Sickness," which he had prepared, and which is as follows :--At 20 years of age, calculate on 4 sick days yearly ; at 20 to 30 , 5 or 6 days ; at 45 , 7 days; at 50, 9 or 10 days; at 55,12 or 13 days; at 60, 16 days; at 65, 31 days; at 70 , 74 days. Of course this refers to people of average good health, and not to those who may. be atticted with any ineradicable or chronic ailment.

Prolonged Incubation of Vacuinia.-Dr. Jas. E. Pressley, of Suisun. City, Cal., says, in the Pacific Med. Surg. Jour:-As is always the case when we have a smail-pox scare-every one desires to be vaccinated. Among the number who came iato my hands, 1 had one case which was rather a curiosity. I vaccinated Miss __ on ths 20th of July : it shewed no disposition to have the slightest effect, till the 30th day of August, forty days after, when the arm began to show signs of the vaccinia taking, and did take as well as any case that I have ever vaccinated.

Now wight not this young lady have been exposed to small-pox, and forty days after, the disease develope itself?

Formation of Epidermis by the Transplanting of Hairs (Boston Medical and Surgical Journal, June 1,1876).—Dr. Schweininger reports successful results in inducing cicatrization by transplanting to granulating surfaces hairs pulled out by the roots. Placed upon ulcers, they formed as many centres of new epithelial growth, which spread outwards, coaleseed, and produced rapid and complete cicatrization. These islands proceeded without doubs from the cells of the outer rootsheath, which is continuous with the epidermal cells of the rete macosum, so that epithelium is here developed from pre-existing epithelial cells.

Death from Chlonoform.--A death from chlorofom is reported from St. Thomas's Hospital. The patient, a labourer, aged forty-five, was admitted as an in-patient suffering from some disease abont the trochanter of the right femur, and in order to make a thorough examination, and open up some old sinuses, he was placed on the operating-table and chloroform administered. Before complete anesthesia had been induced, the pulse suddenly stopped. The breathing continued for some two or three minutes afterwards, during which every available method was tried to restore the heart's action, but without success. At the postmortem examination, fatty dogeneration of the heart was found, but all the other organs were healthy.

Domberk Bomage of Medienes (British Wedical Journal, February 26, and London Practitioner, May, 1876).-Dr. Farruharson's Drop Table.

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The St. Petersburg Lying-in Asylums.In a recent inaugural dissertation, Dr. Stoltz gives an account of the working of the ten Lying-in Asylums that have been recently established at St. Petersburg. Established on account of the danger that exists in the agglomeration of puerperal women, these asylums have only three or four beds in tach; and although many of these are placed in very insalubrious districts, a six years' experience has proved their great utility. Of the 7,907 women who have been delivered in them, only cighty, or $1 \cdot 1$ per cent., have died, while at the three hospitals the mortality has been $3 \cdot 6$ per cent.; so that the lives of 200 women have been sared which would hare been lost in the old establishments. Besides their great convenience in being distributed over the city, the cost of these asylums is much less than that of the hospitals, the expense of each patient being in the latter from nineteen to twenty-three roubles, while in the asylums it is only twelve roubles.—St. Pet. Merl. Woch.

French Association for the Advancement of Science.-M. Tripier, of Lyons, drew attention to certain dangers attending the administration of ether to children. In three patients, aged from five to eight years, this anesthetic produced stoppage of respirationbut not, fortunately, of the heart. From experiments on animals, M. Tripier concluded art this resuit was due to the action of the ether upon the nervons contres, and not to the local irritant effect of the varour upon the brouchial mucous membrane, as he at first believed. In such young subjects, then, he had discauded the use of ether, and had returned to chloroform.——M. Gallard read a paper "On some Changes in the Mucous Membrane of the Stomach," referring especially to the rupture of minute miliary aneurisms as an occasional cause of hematemesis.-M. Letievant, in a paper "On Resection of the Superior Maxilla," adrocated the desirability of preserving the integrity of the intraorbital nerve, in order to avoid the muscular atrophy that follows its division. He drew a striking paraliel between two casesone in which this nerve was, and the other in which it was not, divided.-Lancet.

A Battle Over a Bed-bug.-A sprightly quarrel is in progress among the homoopaths on the subject of bed-bugs. A number of years ago this interesting animal was introduced into their materia medica, in company with pediculus capitis, crotalus horridus and other lively medi cines. In spite of some opposition from individuals, it gained a footing, and now holds a permanent place in Allen's Homeopathic Materic Medica, a standard authority. Dr. J. P. Dake, one of the strong men of the sect, wages war against it, his last demonstration taking the form of a lengthy artical in the June number of the Hannemannian Mouthly. In this, however, he almost surrenders, declaring that "as it had been admitted to the pages of the Encyclopedia by Dr. Allen, I will no longer protest against its remaining there, as it may be, after all, the 'right thing in the right place.'" Now that the question is stilled, it is to be hoped the demand for the valuable medicine will be so active as to prove beneficial to those localities where bed-bugs are not regarded as "the right thing in the right place."-Pacific Med. and Surg. Jour.

Deama from Chloroform.-We believe that this is the third death from chloroform which has occurred at Leicester within six months, that in all the cases the patients were men, between fifty and sixty years of age, and that in each there was a history of bard drinking. These cases should press very strongly on the profession of Leicester the question of chloroform $v$. ether. We believe that some of the best London surgeons bave long settled the question in favor of ether on account of its unquestionably greater safety, and that for years they have not performed an operation under the influence of chloroform. The same lesson is taught very clearly by one of two deaths which occurred in Loudon last week, while the patient was under the influence of chioroform. The history was that so common in such cases-violent struggling, stoppage of the pu!se, death, and fatty degencration of the heart discovered afterwards. The other case was the result of the administration of chloroform when the stomach was full of food, and illustrates too well the danger of such a practice, in this case unavoidable. A vomit was followed by a deep respiration, and the trachea and laryax filled with half-digested food, so that even tracheotomy did not restore the power of breathing.-Lancet.

A Pulse of 21.-A remarkable instance of slow pulse is at the present time in M. Tillaux's service at the Lariboisière. The patient, a chiffonnier, seventy-seven years of age, came in to be treated for hydrocele, in all other respects seeming well, and jovial in his manner. It was almost by accident discovered that he had a pulse only of 21 . It is regular, the two sounds of the heart and the shor interval of silence that separates them occupying sarcely half a second. But the "grand silence" is extraordinarily prolonged, so as to continue nearly two secouds and a-half. During this absolutely nothing is heard in the heart-not the slightest soufiie. But with the first sound a very distinct soutfle is heard, which, continuing during the "petit silence," terminates suddenly with the valvular clap which constitutes the second sound. The heart seems large, its apex beating more externally and lower down than in the normal state. There is some emphysema of the lungs. The pulse was counted carefully four days in succession, and the intervals were found to be perfectly equal, and the same on both sides. The patient, who entered the hospital on August 5, has had some attacks of syncope since then, and at the present time he is suffering from considerable celema of the legs.-G'az. des Hôp.

Cholera Infantum-Its Treatment.-Dr. E. W. Emerson (Boston Med. and Surg. Jour. July 27,1876 ) gives the following views respecting the treatment of cholera infantum. The indications are:

1. To correct the langerous and unfair distribution of the blood in the body, to which the purging, vomiting, cramps and coldness seem to be directly due, and later the greater danger of coma, convulsions or paralysis of the heart.
2. Failing in this, or not succeeding until too late, we should supply the water and perhaps the salts drained from the blood, as the thickening of the blood would prevent the good effects: of a natural turn of the disease, and perhaps dispose to various organic lesions.
3. We should attend to the general hygiene, diet, etc., of patients.

To meet the first indications he recommends
either a hot bath of from $99^{\circ}$ to $104^{\circ} \mathrm{F}$., or. hot mustard packs. Some cases treated by the writer in this way didadmirably. They were suddeuly wrapped to the chin in cloths wrung out in hot water and mustard, with a blanket outside, and fed with ice water and a little brandy. This was continued for a halif hour or more, the mustard sheet then withdrawn and the child left enveloped in the wavm. moist blanket. The second indication is fulfilled by feeding constanily with ice or spoonfuls of ice water, or small onemata of salt water atter a dejection.

Aorte: Regurgmatica Theated by Dei-tadis.-De. G. W Balfour (Edindurgh Med. form.) says that in mo other disease is digitalis of more value than in artic regurgitation, and there is none other in which its curative attion cain be more sufficiently demonstrated than in this. The great danger in artic incompetence is death from asystole, depending nuon orer distension of the left rentricle. As soon as any regurgitation takes place the interior of the left ventricle is (when the patient is in the erect posture) being constantly dilated by a force equivalent to the weight of a column of blood the height of the cranium above the heart, and of the diameter of the ventricnlar lumen. The lydrostatic pressure accordingly increases with the gradual dilatation of the ventricle. Now the value of digitalis consists in this-that by its judicions administration it can produce such an amount of tonic contraction of the ventricle as shall rather more than comnterbalance the dilating power of the arterial column. In order that this effect may be produced, the druge requires to be given freely to cause a certain amonnt of contraction of the apex and diminution of the cavity of the ventricle. There is no danger of pushing the drug too far so long as the flow of urine continues tree. If the quantity of urine begins to fall and the pulse commences to thump or falter, the drug should then be discontinued.

Fresh Brain Tissue-a Rapid and Simple Method of Preparing, Staning and Mountang. -Dr. Joh H. Arbuckle (Glusgore Med. Tour., April, 1876) gives the following method,
which, for observing the minute details of structure, is superior to all others:

The glass slide is first made perfectly clean; a small thin section of byain is made with a sharp scalpel, previously wetted with water; the section is placed on the slide. The under surface of the cover is well oiled with a drop of oil of cloves and placed over the brain substance with the oiled surface next to it. It is then pressed till the thinnest tilu of Irain only remains between the cover and the slide. The whole is then immersed in a small saucer containing methylated spirits. which gradually finds its way between the slide and cover, and dissolves the oil of cloves. After remaining in the spirits for a few moments the slide is taken out; a few drops oi shirits are put upon the slide, and the cover is at one edge pently raised, when a greater quantity of spinits gets between the cover and the side. The cover is now lifted off, and the brain substance remains upon the slide in a thin film.

To stain this film it is first placed in spiritg and after a few seconds removed, and the spirit allowed to run off. A drop of solution of aniline ( $g$. ito 5 i ) is now placed on the film. This is allowed to act for a couple of minutes, and then all the superfluous solution washed off by placing the slide in a basin of clear water. On removing the slide from the water it is placed in clear spirit or absolnte alcohol to further dehydrate it.

To mount the film the slide, after fifteen minutes, is removed from the spirit; the film is cleansed by a drop of oil of cloves. When transparent all the oil is rum off, the slide cleaned, and a drop of Canada balsam dissolved in benzole is put upon the brain film; then the cover is placed on it, and when allowed to dry it is permanently mounted.

The whole process need occupy but a few minutes.

Oath of Pharmacists.- We translate from the weekly journal of Pharmacie, (1370, No. 50 ), the old French oath of pharmacists of 1336, curiositatis causa, and of illustration how. much tempora mutantur :

Outh of the Chistian and Golfearina A pothecaries:

First. I swear and promise before God to live and die in the Cbristian religion.

Item. To honour, to esteem and to serve as much as I can, not only the doctors of medicine who instructed me in the knowledge of rules of pharmacie, but also my preceptors and masters with whom I léarned my trade.

Item. Neither to put an affiont upon one of my oid doctors and magisters, or upon others, however they may lee.

Item. To add as much as 1 cian to the giory, honour and majesty of medicine.

Item. Not to give any emetic to an acute diseased person without before asking the advice of a doctor of medicine.

Item. Not to touch the pudenda of a woman, except in case of urgent recessity, id est, if there a remedy should have to be applied.

Item. Not to give poison to any one and never to advise anybody to do so, eveu not to my worst enemies.

- Item. Not to give an abortive.

Item. To execute minutely the orders of physicians without adding or omitting anything, as far as they are according to the rules of art.

Item. To contradict and to avoid like the pest the scandalous and the most destructive manner of practising of charlatans, empirics and alchymists, the high disgrace of the magistrates who allow them.

At last. Not to keep poor and old drugs in my shop.

The beueliction of the Lord be with me as long as I follow these vows. So be it !-Deut-; sche Mediz. Woshenscrhift.-Can. Mifd. Recorel.

Comparative Researches on Milk.-Langaard has recently made some comparative : researches on human milk, and that of the mare and of the cow. He corroborates the statements made by Biedart in regard to the differences between the milk, and especially between the cascin of the cow and that of humankind. Langaard notices that in koumiss the casein exists in the form of extremely fine floceuli. He finds that mare's milk (stutertmilch) is of alkaline reaction when tresh, and retains its alkalinity for tiwe or three days, but
then passes into an acid fermentation. It does not then, however, like cow's milk, assume a gelatinous form, but the cascin separates in small Hocculi. Dilute acids precipitate the casein immediately, but it is readily soluble in an excess. In the case of cow's milk the casein falls in dense massies, which do not readily redissolve in an excess. Alcohol and tamin procipitate the cascin of mare's milk completely. If the casein be precipitated by alcohol and deprived of fat by ether, it may be obtained in the form of a fine, loose, slightly yellow powder, that resembles the casein of human milk in its solubility in water, dissolving much wore easily than the casein of cow's milk. The watery solution is slighily opalescent, foams on being shaken, and hats a neutral reation. The dry casein is digested as rapidly as that of the woman. Langaard suggests that it would auswer well as at preserved preparation.-Lancet.

Organization of Thrombus.-An interesting memoir on the organization of thrombus has just been published by Dr. Paul Baumgarten, of Konigsluerg. His ulservations were made both on arteries and veins, to which two ligatures had been applied. He finds that botil in the segment to which the double ligature has been applied, and in the parts of the vessel immediately above and below it, a new cell formation takes place beneath the lining membrane Nuclei first make their appearance ieneath the endotheiium by which they are invested; these increase in number, and speedily undergo a differentiation, those nearer the lumen of the tube becoming elongated and concentrically arranged, representing a new muscular coat (though they do not give the usual pieric acid *reaction), whilst chose situated more internally sond out procenses and form an irregalar network. The coagulun or thrombus retreats before the growth of these cells without presenting any indication of cell-proliferation. Near the points where the ligatures are applied new vessels penetrate into the cell-growth, which are derived from the nieighbouring connective tissue, and thus gradually a rascular comective-tissue growih is formed. M. Baumgarten attributés the formation of the new growth to the proli-
feration of the endothelial cells of the vessels; first, because in the early stages of the process all intermediate stages between the endothelial cells and the fibre-cells resembling muscle-cells may be seen; and, secondly, because he has been able to follow similar changes in a portion of vein confiued between two ligatires, when the blood has been evacuated and replaced by some irritating fluid. It will hence be seen that he considers the self-organizing power of the red clot to be mil. The only remains of it that are left after the lapse of some time are particles of pigment scattered through the new growth. -Lancet.

## 

## HIR'TM.

At Richmond, surrey, England, on October 4th, the wife of Dr. A. H. Wright, of a son.

## MARHIAGES.

At St. James' Church, Dundas, on the luth inst., Charles O'Reilly, Esq., M.D., son of the late Dr. O'Reilly, of Hamilton, to Sophia Elizabeth, eldest daughter of the late Geo. Rolph, Esq., of Dundas.

On Tuesday, the 10th inst., at Grace Church, Brantford, by the Rev. R. H. Staur, M.A., Mr. Geo. R. VanNorman, jr., to Hettic S., youngest daughter of Dr. Mason.

> ueathis.

At Newcastle, on the 12 th inst., Wizabeth Ogg McKenzie, wife of William N. Rose, M.D., aged 67 years.
At his residence, King street, Dundas, on Wednesday morning, Octoler 1lth, Henry Charles Rutherford, M.D., aged fis years and 4 months.

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[^0]:    * Fluckiger is Hambury's Pharmacographia, 327.

