## Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for scanning. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of scanning are checked below.

## Coloured covers /

Couverture de couleur
Covers damaged/
Couverture endommagée
Covers restored and/or laminated /
Couverture restauree et/ou pelliculee
Cover title missing /
Le titre de couverture manque
Coloured maps /
Cartes géographiques en couleur
Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)
Coloured plates and/or illustrations /
Planches et/ou illustrations en couleur
Bound with other material /
Relié avec d'autres documents
Only edition available /
Seule édition disponible
Tight binding may cause shadows or distortion along interior margin / La reliure serree peut causer de l'ombre ou de la distorsion le long de la marge intérieure.

L'Institut a numérisé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de numérisation sont indiqués ci-dessous.

Coloured pages / Pages de couleur

Pages damaged / Pages endommagées
Pages restored and/or laminated /
Pages restaurées et/ou pelliculées
Pages discoloured, stained or foxed/
Pages décolorees, tachetées ou piquees
Pages detached / Pages détachées
Showthrough / Transparence
Quality of print varies /
Qualité inégale de l'impression

Includes supplementary materials / Comprend du matériel supplémentaire

Blank leaves added during restorations may appear within the text. Whenever possible, these have been omitted from scanning / Il se peut que certaines pages blanches ajoutees lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas eté numérisées.

# BRITISH AMERICAN JOURNAL. 

## ORIGINAL COMMUNICATIONS.

## MEDICAL DEPARTMENT.

ART. XV.-A case of Dislocation of the Femur downwards and forvards, or under the arch of the Pubes. By Edward W. Hodder, M.D., F.R.C.S.L. President of the Medical Board of Upper Canada. Surgeon to the Toronto Hospital, \&c., \&c.

Read before the Medico-Chirurgical Society of Toronto.
Michael Cambridge, aged 22, a well developed, muscular man, about 5 feet 9 inches in height, was admitted into the Toronto General Hospital, January 15, 1855.

He states that he is a laborer employed on the rail-road works in the neighbourhood of Queen's wharf. At about 6 p. m., this evening, whilst engaged in excavating a bank of earth it suddenly gave way, a large quantity falling upon him, first striking him on the shoulders by which he was knocked down, and a much greatcr quantity afterwatds falling upon his loins and upper part of the thigh whilst he was attempting to escape.

He was brought to the Hospital at about $7 \mathrm{p} . \mathrm{m}$.. On examination a wound abnut an inch in length passed obliquely through the supercilium towards the inner canthus of the right eye, but which only involved the integument. He complains of great pain in the right thigh and in the region of the right hip joint. The singular position of the limb at once attracted my attention, and on making a very careful examination, it was found that the head of the femur had been thrown downwards and inwards, completely under the arch of the pubes, the neck of the bone resting on the ramus of the pubis immediately below the origin of the gracilis muscle, and either between or through the origins of the adductors.

When supported in the upright position, the thigh formed very nearly a right angle with the trunk, the knee being as high as the head of the bone, the leg was at a right angle with the thigh, the knee turned very much outwards, the toes turned slightly outwards and pointed downwards. When he was allowed to place himself in the position which gave him the least pain whilst standing on
the sound limb, the trunk beeme much bent forward, the knee consequentiy less maised. The trochanter major could searealy be felt, but was anterior and much helow its normal position, and thrown inwards towards the mesian line of the hady. One of the most striking symptoms in the case, was a remarkable concavity below the dossum ilii, cansed by the absence of the great trochanter, and by the gluteus maximus, as well as tho medius and minimus, being put so much upon the streteh as to render the bodies of theso museles quite flat, inste:ad of presenting their ordinary rounded form.

On examining the perincum and tracing the ramus of the ischiam from the tuberosity upsards, a firm round projection could be felt at about the junction of the ischium and pubis. This projection was anterior to and rested upon the ramus of the ischiam, and it was found to move when the leg was rotated together with the trochanter. 'The Psons and nliacus museles could also be felt very much upon the stretch.
When the patient was examined in the reeumbent position the thigh was less flexed upon the ahdonen, but it was more turned outwards than in the upright position. On measuring from the anterior superior spinons process of the ilium to the upper edge of the patella, the length of the two limbs was noarly the same, the injured leg, if anything, being the longost, but the distance from the ame point of the ilium to the trochanter on the two sides, shoved a remarkable difference the trochanter of the injured limb being fully two inches further removed, and to the inner and under side.
As the puillies belonging to the Iospital had been lent to a practitioner in the country, and could not bo obtained for some time, it was decidel to wait until the following morning before any attempt was made at reduction. The patient was therefore placed in bed and the injured limb supported by pillows.

Janary 16, 1855, noon. The patient showed little or no signs of constitutional disturbance, the symptoms remained the same, exeept that he complained of more stiffiess and the limb was far less moveable than on the preceding evening.

The reduction having been determined upon, the man was phaced upon a table in the recumbent position; chloroform was then administered until perfect anasthesia was prodnced. A strong belt was passed round the pelvis, on the same plane, as the body, for comuter extension, and the pullios were applied at nearly right angles to the vertical plane of the body, but a little inclined downwards, a round towel was also used for the purpose of dislodging the head of the femur from under the ramus of the ischium and pubis. Axtension was now commenced and cantiously continued for some minutes, the museles being extremely tense and rigid.

The ankle was grasped by an assistant and the leg drawn towards the mesian planc. After the extension had been continued for about 15 or 20 minutes, and the round towel used to dislodge the head of the bone, a hard grating sound was heard, followed by an indistinct snap. The foreo was immediately relaxed and a careful cxamination again made, when it was found that the head of the femur now no longer occupied the former situation under the pubes, but that the accident had been converted into a dislocation into the Foramen Ovale presenting all the characteristics.

The pelvis strapand pullies were again read justed, but the direction of the force was now more upwards and outwards, the ankie held by the assistant was drawn under the other and ati the same time rotated, and in a few minutes the head of the bone was felt to move, and ahost immediately afterwards slipped into the cotyloid oavity, with the same grating sound as when it was dislodged from under the arch of the pubes. This sound more resembled that produced by the laceration of muscuatar and tendinous structures than the clear snap gencrally heard on the reduction of a dislocated bonc.

The fioree reguired was considerable, but the patient was well under the influence of chloroform during the whole time, exeept at the close; and when the luxation was reduced he immediately exclaimed that the bone was in its right place and expressed himself greatly relievod.

His legs wore bound togethor and he was placed in bed. From this time until the bth day of february not a single bad symptom presented itself; he gradually recovered the use of his limb, and on the day of his discharge (5th, Heb.) be was able to walk very well with the use of a stick.

At the time that this case occurred and for some years afterwards I believed this accident to have been unique, as no work that I. had consulted contained an account of a similar displacement of the femur. In Dr. Frank IIamilton's work on Practures and Dislocations, page (661, will be found two cases, one of which, not only in its symptems, but in the manner in which the injury was received, is singularly alike. Wg are bound therefore, to admit, that the head of the femur may be thrown occasionally into this unusual position, and it must, for the fiature, be included amongst the rare accidents to which this joint is liable.
'Toronto, C. W., Jebruury, 1861.
A.RI. XVI.-Vaginal Syysterotomy, Occlusion of the Os Uteri. By John R. Diokson, M.D., Professor of Surgery, University of Quecn's College, Kingston, C. W., Surgeon to the Kingston Gencral Mospital.

Mary Buckley, pregnant with her first child, was admitted into the Kingston Qeneral Iospital, on Saturday, 12th April, 1856, at 5 o'clock in the afternoon, being then in labour.

The pains were freguent and strong. On making an examination two bands wore discovered in the vagina; one near the entrance was firm and unyielding, occupying three fourths the diameter of the canal ; the other, one and a half inch more internally, was neither so extensive nor firm as the outer one.

The Os Uteri was completely occluded, so that it could not be discovered with the finger. As the case was in charge of three students, they now sent for Professors Yates and Fowler, who, after making examinations, sent for me. Having instituted a minute examination, I thought I discovered a furrow in the uterine wall, into which I made an unsuccessful attempt to introduce a stiff bougic.

The unanimous opinion now entertained, was that, as the woman was not married, an attempt had been made to induce abortion, by the introduction of
some toreign body into the senitals, whioh had rosulted in the formation of those firm bands, and the ocolnsion of the uterine os by the adhesive inthamation that had onsued. No cho whatever to tho history of the aso could bo ohtaimed from the patient.

Atter being seventeen hours in labour, and felribe symptoms beginning to bo devoloped, it was decided that the outor band should bo divided, and an artithcial os formed.

Maving brought the patient under the influence of ohloroform, $I$ divided the extermal band two thinds of its oxtent, and then introduced a speoulum, so that the stadents might have an opportunity of sering the condition of tho parts.

Maring withdrawn tho speculan, I introduced the fore and middlo thegers of tho lot hamd into tho vagim, as aguide to a guarded bistourio, and mado an incision about an inch in extent, in the direation where I supposed the os should havo beon. Into this I insimated tirst one, then twoy and ultimately three fingors, and thus gently enlarged the opening.

As the patient was now roturning to consoiousness, an opiato was administered, and she was lett in charge of tho students, with instrutions to send for the medieal attendants at once, should homorthago or any ahaming symptoms onstue.

At S oolock in the evoniug Professors Stowart, Yates, Fowlor, and myself woro summoned to attend.

As tho woman was now 27 hours in labour mad moh exhusted, it was determined to expedite the delivery. Nthough tho pains had leon strong, yot, as thero was some contraction at the brim of the pelvis, which, with tho ocoluted os, prorented the hoad adrancing, it was resolved to deliver by version, as tho featus, presenting feet formost, would act as a good wodgo to gradaally dilato the os. As tho foetus howover, was found to la dead, and tho contracted brim offored a good deal of obstruction to the deliney, the fotal head was diminishod in sizo by craniotomy, atter which the body was delivered.

The oaso progressed favoumbly, and the woman was discharged from llospital on tho 17 th of tune, having completely recovered trom the offects of tho habur and the operation.

Kinaston, O. W., Feb'y 22nd, 1 S61.

ART. XVII.- Will a Child born after the mother has had Snuall Pox, and contracted after she has conccived, be liable to contract the disease? by A. H. Davin, M.D., L.R.C.S.E., do.

As an addition to tho conclusion you arrive at in your paper in the last No. of the B. A. J. on tho question "Will a child born aftor the mother has had small pox and contraoted after sho has conceived, bo liable to coutract the disease ?" I will mention a case somewhat similar to the one you relate, and Which corroborates the opinion you express relative to the protective influence the infant derives from the mother going through small pox, without howevor the child showing any eridence of having had the disense.

Mrs. K., a young English lady only a few months in Montroal, contracted small
pox from her brothor, who had taken it from a panexenger on boird of ono of tho
 cidentally suw him and told him. Ifo had mot hectotet of the houm fir sume days but was up and drowsed. In fact his was without caccojtion the middert gizes I have ever been. Siome days after he got well and was out, I was called to wes; Mrs. K. on the li3h Octapor, 1857. She then comphained of havinus taken oold an sho
 diaphorctic. Tho next day when I naw her, she was in bed, and a dight eruption

 ber humbud, that I would not be nurprised if the shumld misearry, and that probably the child would be dead born, allhough her term of protition was nearly cuded. Dr. Cumphell of Grcat, Bt. James strect niw luer with me on the merming of the 17 th , and corroborated wina I had said. Jfowover, she wont on through
 of the 2tith, the I 2 th day of the ceruption, when labor same on, and I delivered her

 The lady made a rapid and excellent recovery, and as sis, had to necompany hos humband to England in tho Pohraary following, she regitatud me to vaceinate her baby. I fold her I did not think it was repuisite to do sot, but whe insistod upon it, and I vaccinated it in danury when it was three montus old, but the operation failest, 1 then vaceimated it again abont ton days later, bat with no betuer mocersy, and I have since lourned that the bas had it tried agin it Fughand with a like result. I con anower for the genuinenozo of the vaceine matior I used, ats it took well with other children, and I have mo resson to doubt thet the pame may be said of that used by the modicial genteman in Viogind who tried to vaceinates it the third time.

I may hercestate that Mrs. K. had been vaceinated when a child and the tyo markm on her arm were very dintinct.

I will now sxplain the reason why I was moryived at the fufate being bom alive and without a spot or mark of any kind, but with as fine white or roskateskin as any child could have, and it is this, that in all the cass of rmall poz in preve nant women that I have mat with during the course of a large midwificy practice, both in the country and in this city, they all mixcarried; and the children, with this ringle exception, were still hors, and all were covered with the eruption. The cancs you have pablishod, now amounting to thrig-yours, Dr. Strauaghan's, and thin one of mine, may become of importance on the quation of vaceiantign and rovaccination, of which wo have still a great deal to leara.

Montreal, Vebruary 20th, 1860.

## Review department.

## ART' XVIII———he Ear in Mcalth and Disease. By Whatam IIaryey,

 F. R. C. S.In a former number of this Jourmal we introduced to the notiee of our readers, the valuable practical treatise of Mr. Toynbee, and now wo have the pleasure of directing attention to that of Mr. Marvey, and perhaps we shall do more to show the merits of the work by a few extracts than by indulging in any eulogiums of our own.

Mr. Marvey's treatise is a small and cheap work, but a very useful ono. Each subject is discossed in a suecinot mamer and the treatment recommended is highly judicious. We shall quote from the chapter on Diseases of tho Meatus Externus," Mode of Examination. In order to understand the morlid condition of the Meatus Bxtermus, it is necessary that the practitioner should familiarize himsolf with its appearance in health. It will have been seen that the canal is by no mems straight, and therefore, in order to its effectual examination a speculum is obviously necessary; and the knowlenge which the pratitioner will acquire of the morbid appoarances of the anditory canal will much depend upon the kind of speculum which he employs," p. 51.

The author recommends a bivalved instrument, "with a dise of at least ono inch and a half in diameter and the other extremity small ensugh when closed to enter a meatus very much contracted from disease or any other cause."
"In using the instrument it must be reeollected that the camal is divided into two distinct portions, the external being cartilayinons nud therefore clastic, and the internal osseous and therefore undilatahle." The great error made by some instrument makers is owing to their ignoranco of this anatomical point. We ourselves procured an Lar speculum from a famons instrument maker in London, many years ago, and found it was mado of three bades which could be opened by a serew in the same mamer, and upon the same principle as the three bladed anal or vaginal speculum. Need we say it has hain in a drawer ever since. Having introduced the speculum, the light being favorable, the surgeon should next look for the 'ceruminous circle,' consisting of a circle of fine hairs, covered in health by a sort of glutinous dew. This is the cerrumen, which should be of a yellowish brown colour, and of the eonsistence of honey; of great temacity, but varying in this respect according to the healthy or diseased condition of the organ, exposure to the atmosphere, and the age of the individual."
"The presence of this ceruminous oircle is diagnostio of a healthy oondition of the meatus externus; if deafness cooxist with a normal condition of this cirele, the probability is, that the cause will be found elsewhere, and probably in the middle car, from some disordered condition of the parts about the fauces. On the other haud, if the cerumen instead of being arranged in a cirolo, be distributed in patches, or instead of being of tho consistence and appearance of honcy, be dried and scaly, then, in either case, it is to be presumed that tho
membrane lining the meatus is in an unhealthy condition, and requires local sis well as gencral treatment. This yellow circular fringe is in high perfection in those persons whose hearing is very acute."

Wo pass over our author's remarks upon the discasas of the meatus; (they are well worth perusal) and proceed to quote his remarks upon syringing the meatus. "An auricular syringe for this purpose ought to be made of silver, ivory or brass-(why not powter?)-the barrel or body should be about four inches in length, and three guarters of an inch in thickness with a nozale of about two inches in lengtl, of sevenecighths of a line in diameter at the extremity; it should contain about two ounces of water, which should ulways be used warm."

Mr. Marvey warns his readers against various accidents that may follow the injudicious use of the syringe.

The cases in which puncturing the membrana tympani would be advisable are pointed out and the following directions are given for the performance of the operation "which requires very delicate manipulation; there are three indicttions to bo observed:-1. 'Io avoid the manabrium of the malleus, and for this purpose the anterior and inferior part of the membrana tympani should be selected. 2. To make such an opening as shall prove sufficient and permanent, neither so large as to interfere perecptibly with the vibrations of the membrane, nor so small as to heal immediately, there being always a tendency in incised wounds of this membrane to close rapidly. 3. That no mischicf should be done."

The author prefers a stilette with a transverse guard, with which to operate. The operation may be required for:-1. Obstruction of the Eustachian tube. 2. Accumulation of pus in the tympanum. 3. Thickening of the membrana tympani. 4. There is likewise a condition of the parts in which, although an opening already exists in the membrane with obstinate otorrhoea, the author has found great advantage from introducing the stilette through a small aperture in the membrane, so as to give free exit to the pus, which appears to have issued from a kind of fistulous cavity between the layers of the nembranc." In soveral such cases the membrane has rapidly healed after the incision, the discharge having previously ceased. p. 179.

There is an interesting chapter on the artificial membrana tympani, to which our space will barely allow us to allude, and in conclusion we beg to recommend this valuable little treatise to the busy practitioner whose arduous duties prevent him studying the larger and more claborate work of Mr. Toynbee on the same subject.

## ART. XIX.-Annual Report of the Normal, Model, Grammar, and Common Schools in Upper Canada for the year 1859.

In our number of January last we had the pleasure of noticing the progress of education in Lower Canada as shewn by the Annual Report of our Superintendent, IIon. P. J. O. Chauveau. Since then we have received the able and claborate document designated above, and we bave equal satisfaction in acknow-

Iedging tho intennst with which we have perasod ita varied and valuabla non-
 orn Cunada are known far and near. The Doctor is a man of ommandiar talont, and of rare comage and pursoremano. It may bo said of him that ho has Gughe overy inoth of sromel to his present lody emimonoa; nud somminly his countrymon--Ge he is a Gmadim,-memmot fod othorwiso than rejoiood at his succesw seming that his trimuph is theis, tho rownlt of his bubours botheg tho establishment of a systom of education for thoir momery of the highest value and remown, Wo use tho hathor tem advisolly, for it has omo to our knowledgu that mot only in tha United Statea, and tho Sistor Ochomes, but alao

 as a crodit to sur times.

Tho repore bofory na shows no diminution in thelaboma of the worthy anperlu-
 ombracigg first, asomeral report; seoond a statiseral report; thon, miscollanoons
 an admational summary for the year 1850 , shewing the umber of common sehmols to bo 3,038 , incromso over the provions yoar 87 ; muber of common
 urwe d; other eqlueational institutions, inoluding momal, model, and mondel
 of oducational institutions 4272 ; total mumber of pupils attoming them, 314,246 . Amone expended for educational parposes during 1850 , $81,380,682$, In roforenco to this oxpenditury it is stated, (page 1s) "that litho mome than ome" tenth of the sums of money momioned havo boen provided hy tho Legrinhatury " from ondowments and gromes. Tho hogishatnow inposes mo tax for any edu" cational purpose. All tho wost of tha hage sums montioned aro provided by " volantary looal taxation, and other oxurtions ia emeh munieipality;" a fonturo in the system highly honorablo to Upper Camada.

Wero wa to consult our individual tastes mueh moro would bo oxtravod from this most axcellent roport, hat tho amomet of spaco at our commmad forhids further indulgomo of this kind. Let us, howerer, say to all into whose hamds thoro port may como, to oxamino and stmly in as a doommont from which both pleasura and profit is to he derived.

## PERLSCOPIC DEPALTMENT.

## mhdtcine.

## MSTORE OF THE CHOLERA AT MONTBRAL.

## Continued from pare 6ti.-Conclusion.

Query XII,-What wore tho most common exciting eanses ? What do you think of the expediency of eating garden regetahles and ripe truit during the provalenco of tha opidemic?








 I mhould uot betiseve preductive of evil.'
 comributa to Lhas hamaity of the ephimion perison?





















 a iether, a cony of which I trammath.




 weat, and not ong on tha east aldo of the Norld Illver, notwithatanding that the ous is equally propulour with tha other,k".

## Dr. Struart's latler to for. Molups.

 Ing to choluris in the garrion herg. Tho diecase appeared in the larracks sa Montreal


 4040).

Varlour razans not now to be atated, led to an lmmediate deternination to removo the tronps from the baracks in Montreal, sud encaupurant on the faland of Et. Welen's Way lially reablved on. The movement way effected on the 10 h , during which day, principally beforg or whith the chaugo was taking pluce, nien casea were adaithed. On the $20 t h$ of June, wat casc, and no other unth the arrival of the detachanat froza

Laprairie. This detachment, including all the romen and children, had been sent there before my arrival, and about thi 14 th , in order to relieve the barracks, there being no medical officer there, the detachment was placed under the care of a ciril practitioner. The prevailing malady appeared among them; ten men and three women were reported to have been seized, and eight men and one woman died in a few days. Immediate measures were taken for their removal to St. Helen's, and they were formed into a separate camp (in which they continued) on the 24 th of June. From this camp a woman was admitted on the 28 th of June, a private on the 4 th of July, and a second woman on the 6th of July. From that time up to the present date, the actual and confirmed seizures admitted from the island have only been three, viz., one gunner, royal artillery, ono corporal, and one private of the twenty-fourth regiment. The first of these, a man of rather weak intellect and dissipated habits, made his escape during the night in a canoe from the island to Montreal, where he was found next morning, by some of the men of his company, in a state of intoxication. For this offence, he was put into the guard-house. Symptoms of cholera soon appeared-the attack was immediately reported-collapse set in rapidly, and he died in about six hours.

The second, a corporal, a man of excellent character, and a fine soldier, was seized with premonitory symptoms while on guard in the city of Montreal. These, from mistaken views, he unfortunately concealed or neglected for between thirty-six and fortyeight hours. He died on the third day.

The third case, a healthy mar, and subject to bowel complaints, had also been on guard in town, the day before he was attacked. The premonitory symptoms had been of some standing; the choleric symptoms proved obstinate, particularly the discharges by stool. They were at length removed; but a low febrile state followed, from which $i_{t}$ was extremely doubtful whether he wonld recover for the space of tiventy days.

The gunner above mentioned was the only man, of a company of the royal artillery stationed in barracks on the island of St. Helen's, attacked with cholera. Non-intercourse was observed as far as possible between this company and the town, as also between it and the troops encamped on the island during the greater part of the time. As far as the necessary duties to be performed by guard in the city, and the procuring of supplies, would admit of, the intercourse was likewise restricted between the people in the camp and Montreal.

- The number of persons belonging to the garrison (men, women and children), treated at Montreal from 12 th June to 26 th September, would appear by the returns to be 106deaths, 39. Of these, 35 took place between the 12 th and 24 th June. In this statement neither the attacks or casualities which occurred at out posts are included, nor are incipient or premonitory symptoms noticed; many cases of diarrhœa, with or without vomiting, and spasms, having been treated during the prevalence of the epidemic, not a few of which there is reason to believe would have terminated in confirmed cholera.

> Faithfully yours,

Art. Stewart.
Query XIV.-Was convalescence slowly progressive when patients were recovered from advanced stages of the disease, and were they liable to relapses?

Answer.-Convalescence so far as my own observation extended, was always slow. Patients passed into a state resembling typhus, but still sufficiently distinct. The choleric appearance and symptoms seldom disappeared at once, but the hands would often remain cold for several days, the upturning of the eyes would continue, with more or less tendency to coma; the stomach would remain irritable; thirst considerable; the sunken and dark appearance of the eyes would remain for many days, and I have recognized a cholera case eight days and even longer after the paticnt had been removed from the cholera hospital, into the hospital for typhus patients. The disease succeeding cholera, though typhoid, is by no means the same with common typhus. The tongue indeed becomes dry and brown, but it is not the dry, hard, and cracked tongue of typhus; the pulse is slower and surface cooler ; the affection of the head is less marked. The patient indeed often lies in a drowsy stupor, with his oyos half closed, and balls
turned upwards, with more or less wandering of the mind, but is sensible till coma comes on previous to dissolution. The time occupied in convalescence varied from one to two or three weeks, and generally much debility remained for some time longer. I have not met with any patients who relapsed from the typhoid state into cholera. When the disease proved fatal, it was generally with symptoms of affection of the brain, becoming at last perfect coma. Cholera, however, will certainly attack a patient several times, and even severely. A smart attack; therefore, does not secure the patient from subsequent ones.

Query XV.-Were congestion and inflammation of the brain frequent sequele of the disease, and what other consecutive diseases did you most frequently observe, and what your treatment of the secondary affections?

Answer.-I refer you, as far as regards this head; to the answer to the last query; affections of the bronchi sometimes supervened, marked by cough. Oppression and inflammatory affection of tho bowels, denoted by pain on pressure, was not unfrequent. The treatment consisted chiefly in calomel and purgatives, saline or oily; blisters to relieve pain or stupor; sinapisms occasionally ; camphor and opium, with saline diaphoretics. Calomel, carried to the extent of slight salivation, was always serviccable.

Query XVI.-What proportion of the subjects of cholera were intemperate?
Answer.--'This query I cannot answer directly. It accords with my belief, however, that a large majority was addicted to the inordinate use of alcoholic liquors. It has been stated, on the best authority, that out of 108 persons composing the Young Men's, Temperance Society in this city, three only had been fatally affected by cholera; a proportion far inferior to that of the community in general.
'From the Secretary of the Montreal Temperance Socicty I have procured the following information. In this Society 207 members remained in the city, of whom only one had died of cholera; another had been attacked but recovered. Three, who had ceased to be members in consequence of violating the Constitution, had all died ; three others had died during the time, one of consumption-one of a wound received on board of a steamboat-and one of a fall down stairs, by which his spine was injured. Some others had premonitory symptoms, and some badly, but not decided cholera. In' addition a considerable number of new members had been added, all of whom were here during the malady; making a total of at least 230 , out of whom bui the deaths above stated had taken place.'-The Society is much more numerousi, but only those are included in the above statement who remained exposed in the city or elsewhere during the epidemic.
${ }^{\text {' There }}$ is also a Total Abstinence Society in this city (from all vinous and fermented liquors), amounting in number to 70 persons; not one of whom has been attacked by. cholera.

Query XVII.-Were those enfecbled by disease, whose habits were prudent, more fre-: quently the subjects of cholera than the robust?

Answer.-' It does not appear to me that those in delicate health, and who used the additional precautions rendered necessary by this state, were more liable to the disease than the robust. From this delicacy it would necessarily follow, however, that greater precautions, were required in the former than in the latter.'

Query XVIII.-Were the greater proportion of patients male or female? and were young children affected?

Answer.-'Perhaps a greater number of males was attacked; though it does not ap-" pear to me there was a very great disparity. Children of all ages were affected. In the younger ones, cramps were scarcely ever present.

Query XIX.-Have you remarked that the disease has been influenced by changes in the weather, or variations of temperature?

Answer.-'I have not been able satisfactorily to make out a connection between suchchanges, and the increase or diminution in the number of persons attacked. It is, however, certain, that after the disease had abated so much in this city as to produce san-
guine hopes of its being about to leave us, the cases a second time incroased to a large amount ; and this increase took place after a severe storm, followed by wet weather.
'In confirmation of this, I add that the storm alluded to, which was attended with much thunder and lightning, took place on Sunday evening, July 29th, and the following are the reports of the deaths by the Board of Health, for the days immediately pres vious and subsequent to it.*
'Doaths from 25th to 26th, at 8 P. M ............................... 15
27th ....................................... 18
28th ....... :................................ 23
20th ......................................... 10
30th ....................................... 12
31st........................................... 14
August 1st............................................ 27
3nd.......................................... $25^{\prime}$
Query XX.-What number of deaths has occurred at Montreal from cholora asphyxia?
Answer.- In reply I send you an extract from the Reports of the Board of Health, which gives the number of cases reported, and of burinls of cholera during the epidemic. The largest amount of burials occurred on June 19th, whon no less than 149 interments took plave.

Digest of Reports issued by the Board of Health of Montreal, arranged by weeks, ending on Saturdays, inclusive, at 8 P. M.

| Weok ending | Cases. | Deaths. | Total cases. | Total denths. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| June .......... 16 |  |  | 1705 | 261 |  |
| 23 | 1580 | 633 | 3289 | 893 |  |
| 30 | 234 | 166 | 3593 | 1059 |  |
| July ........... 7 | 124 | 84 | 3647 | 1153 |  |
| 14 | 75 | 61 | 3722 | 1214 |  |
| 21 | 96 | 70 | 3818 | 128t |  |
| 38 | 160 | 131 | 3978 | 1415 |  |
| Augnst......... 4 | 180 | 136 | 4158 | 1551 |  |
| 11 | 88 | 101 | 4246 | 1652 |  |
| 18 | 54 | 79 | 4300 | 1731 |  |
| 25 | 48 | 68 | 4348 | 1799 |  |
| September ..... 1 | 37 | 54 | 4385 | 1853 |  |
| -8 | 10 | 32 | 4395 | 1885 |  |
| 15 | 15 | 13 | 4410 | 1898 |  |
| 22 | 10 | 6 | 4420 | 1904 |  |

'Likewise a statement published in the newspaper called L'ami du Peuple, and which may be considered very correct. In the Catholic burying ground, from the 13 th of June to the 13th of September, there have been interrod-

|  | Canalinns. | Europenns. | Totnl. |
| :--- | :---: | :---: | ---: |
| Males | 400 | 307 | 707 |
| Females | 330 | 253 | 582 |
| Infants under 7 | 316 | 253 | 568 |
| Unknown | 316 | 253 | 28 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

In the Protestant ground, from the 11th of June to the
19th of September, of cholera............. 617
Of other disenses . ............................... $538=1155$
At the Plains of St. Anne, all Europenns (most of them Catholics), and all of cholera ........ 72

$$
\text { Grand total of burials.............. } 3062
$$

N. B. To Oct. 1, the total in Catholic ground was 2042.

[^0]'I would call yonr attention in reference to the mortality in Montreal, to the remarks contained in my reply to your fourth query, in which 1 have stated that from the alarm that existed during the first days, many cases had been reported as cholera; which never would have become so, even had they been let alone. The total number of cases reported in the first week, 1 sincerely believe to have been greatly exaggerated from this cause, and from the want of discrimination in not distinguishing real cholera from symptoms purely the effect of agitation and Pear. That I am not wrong in this assumption will appear evident to you by inspecting the table of cases and deaths: During the first week the deaths were only 261 to $1700^{\text {cases, }}$ or between one-sixth and one-seventh. During the second, there were 632 deaths to 1580 cases, or between one-half and onethird; and the deaths subsequently always bore a very large proportion to the cabes reported, and frequently exceeded them. With this deduction, which I conceive perfectly justifiable, from the total number of cases, the amount of deaths from cholera will approach the frightful sum of nearly every second person attacked. In mitigation, however, it will be necessary to bear in mind that a large number of cases were not reported at all, being abandoned to Nature alone, or seen only by irregalar practitioners who did not dare to report. It is impossible to arrive at more than an approach to accuracy, in giving a statement of the number attacked and of the mortality; nor: can even the registers of the interments be depended ou, formany cases would, from the ignorance of the attendants, be deemed cholera which were not; and moreover as coffing were furnished gratis to the poor, who died of the discase; this produced a motive to fulsify the nature of the disease, which must have been of considerable force among a moneyless set of people. On the other hand, as the regnlations of the Board of Health, and of the Catholic Clergy, forbade the kecping of bodies dead of cholera beyond a few hours, and denied thern admission into the churches for the purpose of having the regalar services for the dead performed over them, this was a strong motive with affectionate friends to assert the non-existence of cholera in any particular individual ; added to which, a certain dislike to have it supposed that a friend bad taken the cholera was very evident.
' Whether these different motives were sufficient to counterbalanco each other, cannot be known, and there must always remain a degree of doubt as to the accuracy of the statements promulgated of the number of cases and of deaths from cholera.
'The last census (of 1831) gave as the population of Montreal city, 27,297; parish, 31,783. To these must be added the emigrants forced to sojourn among us for many weeks, the number of whom can be only conjectural.'

Some other interesting details are contained in Dr. Holmes's reply to my inquiries; but it is not improbable that the limits of your Journal may oblige you to exclude a part of what I have here communicated.

Respectfully yours, Martyn Paine.
New York, Feb. 11, 1833.

# ON THE TREATMENT OF TETANUS BY LIQUOR POTASSEE. 

> By Josera Reid, M. D.

Maving lately had under my care a case of tetanus, in which the treatment I adopted proved successful, and feeling that another opportunity may not offer in my practice $t_{0}$ test more fully the effects of the same remedy in the same disease, I am anxious tha other practitioners may be induced, from a short statement of the case, to try that which ${ }_{t}$ Ifound in this insiance to be so highly efficacious. I regret much that I did not take daily notes of the case ; but the following brief report will, I trust, be suffcient evidence of the practice and its results.

Mr. S——, aged thirty, of active habits, delicate constitution, and possessing a ncrvous temperament came under my care June 1, 1860. States that $a$ few days since he was exposed to a cold easterly wind for some hours when driving in an open vehicle;
but that ho did not observe any ill effects therefrom, and felt in his usual health until this morning, when he, for tho first time, experienced a sense of constriction and tightuess in the thront, but which symptoms appeared to diminish until mid-day, when they became suddenly aggravated, causing him serious aham, and obliging him to desist from business, and seek medical relief. When ho visited me, I found him in a state of extreme excitement, and momentary dread of strangulation; he could not swallow the smallest portion of solid food, and when he cadearoured to drink, the act of deglatition was attended with such a sense of suffocation and anxiety, that it was with much dificulty that I could induce him to make the attempt. At this period there were ao other symptoms present, so that it wes impossible to determine the exact mature of the attack but by degrees the disease became developed; the conntenance assumed the toture expression; the masseter muscles and those of the cervical region were now firmly contracted, the sterno-cleido mastoid standing out like tense cords; the lower jaw became almost fixed; the tonguc could with difficulty be protruded between the incisor teeth, and at times was spasmodically darted forwards, so as to rum a danger of severe heeration. The walls of the abdomen likewise became extremely hard and rigid, and much difticulty and distress was experienced in passing urine' which could only be voided at long intervals, although a desire to do so was seldom absent. Pain was also comphined of, shooting from the ensiform cartilage through the diaphragm towards the vertebral column, and the spasmodic jerks from which the patient suffered were so intense and frequent, as to deprive him of rest both night and day. Mis bowels were obstinately constipated, and irritability of the stomach, with romiting, added much to his general distress. His skin was bathed in profuse pespiration. The pulse, which at times was intermittent, was also irregular as to its frequency, an extreme variation often occurring within a few hours.

Such were the symptoms present, and such was the condition of the patient on the eighth day from the commencement of the attack; and as the case appeared to be rapialy going from bnd to worse, I thought it necessary to alter the treatment from that which 1 had been pursuing-namely, mercury, with anodynes and antispasmodics-to what I considered might be attended with more success. I accordingly preseribed liquor potasse, which I ordered in combination with syrup of poppies and canphor water, after a few doses of which I was much pleased to find a marked improvement in the most urgent of the symptoms, the earliest amendment being a perfect freedom from the difliculty of passing urine. The stomach soon became settled, and capable of retainiag nourishment. By degrees the tension of the muscles, and the spasmodic jerkings became diminished. The bowels acted withont the assistance of cuemata, which were before absolutely necessary, and in overy particular, progress towards health followed the $\mathrm{em}_{\text {- }}$ ployment of this medicine.

Such are the outlines of this case; and I consider it may be satisfictory if I state my reasons for selecting the liquor potasse. But first I may refer to the very uncertain and scanty information which we derive from pathological appearances, even when such appearances are present; for often the most careful examination fitils to discover any alteration of structure which can be looked upon as the effects of tetanus, and tetanus only. No loubt there is sometimes found a vascularity of the mucous membrane of the cesophagus, and of that covering the cardine orifice of the stomach; at others, there is discovered some eflusion within the cranium or spinal caual; but all or any of these are not always present, and are, perhaps, more frequently so after denth from other causes. The disease cannot be one of an inflammatory character, for whether it terminates fatally after a few days or some weeks, there is not, as a rule, any change lett which can be considered as a product of inflammation, or which, if looked upon as such, bears the least ratio to the soverity of the symptoms daring life. But this very absence of morbid appearances leads me to suppose that mere functional disturbance in the operation of the nerrous and muscular systems may constitute a principal, if not the entire, of the disease. When we remember how intimately incorporated are the
capillary vessels and their contents with the medulla of the nerve and the fibrillar of the muscle, it is casy to conceive how muscular contraction may follow on any irritatlon of the nerve-fibre by causing an accumulation of fluid in the vessels of the contracting muscle ; and although it may be impossible to define the exact proportion in which the blood, the nerve, and the tonicity of the muscle may be engaged in tetanus, yet it appears to me that the rigidity of the last is different from the contraction which we are accustomed to find in other spnemodic diseages; it seems to resemble more the rigor mortis, or death stiffening $-a$ condition in which the influence of innervation is absent. But superaded to this we observe in tetanus the alternating movements of contraction and relaxation, arising, no doubt, from reftex aetion operating through the nervous centres. To obtain a less easily exclted condition of this system, also a diminution in the tonicity of the muscular fibre, and a dearease in that portion of the blood through whose agency is supplied irritability or vital activity to the nervous and muscular structures, would be to gain a certain control over an exciting canse, and a relaxation in the leading features of the disease; and believing that in liquor potasso we have a remedy calculated to effect these changea, I prescribed it in the Poregoing case, at a time when all the symptoms were so urgent as to afford but slight hopes of recovery ; and it is owing to the very rapid improvement which followed on its administration that I feel a further trial of liquor potasse in tetanus may be attended with like saccess.Lancet.

## malaria, or misma.

In certain places there is diffused through the air an exceedingly minute quantity of a substance which has a powerful effect on the human system, and frequently offers in such districts a serious obstacle to the cultivation of the soil. It is this which gives rise to intermittent fevers and perhaps to maladies of a more malignant character. This substance is found in marahy and low places where animal and vergetable matter of an aqueous character is in a state of decomposition, but the winds which pass over these places transport the malarious effluvia to a distance, and thas render whole tracts of country unhealthy.

Tho corpuscles of this substance appear to adhere to the molecules of water, and are elevated with the latter by the ascending currents of air to heights which vary in different countrics. Around the Pontine marshes, in Italy, the malaria disappears at the height of from seven hundred to one thousand feet, while in South America, according to Humboldt, it is found at an clevation of three thousand feet; usually, however, its effects are exhibited with intensity at a much lower clevation than that first mentioned. It is also observed that humid air, which transports miasma, is deprived of this noxious material in passing through trees, and that in many cases, in the sarne neigh bourhood, a screen of foliage is sufficient to produce a marked difference between two places otherwise similarly situated. Double screens of fine gauze also placed in the windows of slecping rooms answer a similar purpose, and should be resorted to in"all cases as a precaution wherever there is danger of disease from this cause. It is probablo that the diffusion of malaria in still ai:, as in the case of vapour, is exceedingly slow, and hence anything that tends to interrupt the current will much retard its transmission. It is asserted that in some cases near the focus of emanation it is less deleterious than at places at a considerable distance. It would appear from this to ascend vertically with the columns of beated air and to be afterwards wafted horizontally to a distance, and there impinging on the first elevation produces its effects; or perhaps this opinion has arisen from the screening influence of objects near the source.

Miasma in perfectly dry air is in such small quantities as not only to be inaccessible to the investigation of seience, but also insufficient seriously to affect human life. It is otherwise, however, in air cooled by the radiation of the evening and night. It appears then to be precipitated into the lower strata of the atmosphere with the mass of humidity
with which it seems to be connected, and when this is evaporated again at sunrise, it carries up with it the miasma in its ascentional movement. At this time it is taken into the system by swallowing, respiration and perhaps by absorption through the pores of the skin, in sufficient quantities to manifest its deleterious effects. In malarious districts, therefore, caution should be taken against exposure to the evening precipitations and morning evaporation of the humidity of the atmosphere. Ground which has been a long time under water retains during a series of years the property of emitting the effluvia. The virgin soil in which decaying vegetable matter has accumulated for jears, when first exposed to the action of the air by the labour of the pioneer, gives off a large amount of malarious effluvia; care should therefore be taken in the new settlement of a country not only to select a proper location, but also to protect the houses by a border of trees; particularly on the side against which the prevailing wind impinges: And it is to be regretted that good taste, as well as the comfort of an agreeable shade, does not more frequently induce the husbandman to spare some of the original products of the forest which are found near the spot on which he erects his dwelling. It is also stated that plants in active vegetation, as in the case of sunflowers, absorb deleterious efluvia; but whether this effect is produced independently of the screening we have mentioned has not yet been settled. In the fertile regions of the tropics where heat and moisture abound-for example, the valley of the Amazon-and where vegetation is luxuriant, the malarious effluvia is at its maximum ; while in dry countries with less vegetable life, such as those west of the Mississippi, it is not found. Nature thus is not indiscriminately benevolent to civilized man ; in his uncivilized condition different races are confined to different districts, aud the influences which affect one are inoperative on the other. It is only by investigating the causes of these differences, and thus in some cases arriving at the means of controlling them, that the civilized man becomes a citizen of the world, and within certain limits is enabled to overcome the natural enemies to which in his primitive ignorance he is exposed.

The difficulty of investigating the nature of miasma has induced some to believe its effects due to variations of temperature and moisture; but this is not sufficient to explain all the phenomena, as places very different in this respect vary greatly in their sanitary condition. The quantity of material (whatever it may be) which constitutes malaria is too minute to be immediately detected by the eudiometer, the instrument usually employed to analyze air. M. Moscati, in order to collect it in considerable quantities, employed a glass globe filled with ice, on the surface of which the aqueous vapour of the atmosphere was constantly precipitated. He found that the water thus collected in infected places was of a white colour, inodorous, slightly alkaline, and after standing a short time, lime water and acetate of lead produced in it a light precipitate. It contained animal matter, ammonia and chlorate and carbonate of soda. The effect of this water upon animals has not, so far as we know, been tested, though it is said that sheep which feed upon grass covered by the morning dew in infected districts are subject to peculiar maladies.

The presence of organic matter may be detected in the process just described by dropping into the water a little sulphuric acid, and by afterwards evaporating the fluid we will obtain traces of carbon. If the experiment, for example, be made in a slaughterhouse, comparatively a large amount of this substance will be obtained; and yet from abundant observation it is known that the animal effuvia to which the butcher is constantly exposed is not of a morbific character, since the followers of this occupation are proverbially healthy. It would appear from this fact that the hurtful miasma is of vegetable, not of animal, origin. That collected by Regaud had the odor of burnt plants when incinerated. The same investigator asserts that a marshy odor does not always indicate a feverish infection, and that in malarious districts it was above all to be feared at times when the air appeared pure and inodorous. From all the facts, then, it appears most probable that the substance called miasma is an organized body, endowed with life, and furst generated in the decomposition of aquatic vegetation; that
its introduction into the circulation of animals is a real innoculation affecting especially the nervous system : finally, that when it commences itself to decay in the open air, it ceases to be deleterious, though it gives rise to disagreeable odors. This investigation opens a wide field for chemical research, to which the later improvenents in the art of analysis may perhaps be successfully applied. Whatever may be the cause of the disease spoken of, experience has indicated the following precautions for those exposed to its influence :
1st. In malarious cistricts avoid as much as possible going out before the dew has evaporated.

2d. Do not go out fasting, but before exposure to the morning air take some slightly exciting drink, such as coffee or tea, in place of spirits. The former produces a healthful exhilaration, which prevents an attack of the miasma, while the reaction which succeeds the exhilarating effects of the latter tends to favour the absorption of the poison.

3d. Wear flannel garments next the body, which tend to stimulate the skin and prevent the deleterious effect.
4th. The use of disinfectants, thongh perhaps less energetic in destroying miasma than in decomposing odors, should not be entirely neglected ; and for this purpose, a small quantity of chloride of lime may be carried about the person. It is said the flashing of gunpowder in a room answers the same purpose.
5th. Screens of trees should be planted to interrupt the damp and warm wind from the focus of the emanation.

6th. During warm weather, when ventilation is more necessary, provide the doors and windows with screens of fine gauze.

7th. Use boiled water in preference to any other, or pure rain water, or that which has fallen some time after the rain commences, to which add a small portion of vinegar or acetic acid.
8th. In cool evenings of summer, the dampness of the house should be dissipated by a blazing fire upon the hearth.

It appears that the malarious influence is produced at a certain temperature, and that it is favoured in marshy places by the heating of the water in shallow pools. It has been recommended to divide such places by deep parallel ditches or narrow camals at right angles to the direction of the prevailing wind, the earth of which is to be thrown up on the side in the form dykes, which are to be planted with rapidly growing trees or large shrubs. The ditch collects the water in too large bodies to be much heated, and this effect is further lessened by the shade of the trees. The latter also serve as a series of screens to intercept any malaria which may arise.-Report on Meteorology by Prof. Henry, in the Agricultural Report, 1857, Smithsonian Institution.

## ENLARGED LIVER FROM TIGET LACING.

By Mr. McWannie.

Whilst attending a young lady with a broken rib, occasioned by a fall from her horse, her mother observed that my patient's health, she thought, had suffered from the habit of tight lacing. The menstrual periods were irregular; her aspect was cachectic, and she suffered from hæmorrhoids. On examining into the physical effects produced by the continued constriction of the chest, it was found, by percussion, \&c., that the liver extended downwards far beyond its proper region; its edge could be felt below the umbilicus, where it seemed pressed down and retained by the constriction of the lower part of the chest.

This case reminded me of some notes and a sketch of the liver of a female, aged 22 , who had died of pleuropneumonia. Here, also, the lower ribs were much pressed inwards. On opening the abdomen, the liver appeared to occupy the greater part of the
cavity, ineroased to several thes its natural siau ; aud it estemded frou the hypochomdriao region, whero tho right lobo swemed to prese up the daphragm and enorunch upon
 drayging down and attering the stmation and relations of mont of the viovora, tho groas dat of the stounch-as in another iastane robated to membehg hodged in the lott Ha fossa.

The form of the liver fom abovo dowawats was attered to a groater oxtont than I
 prossure. The ill offeots on the haothas of many of the ogens, to, must bo obvons, and it may bo a question how dar many of tho symptoms in connexion with hystoria so


 oshatenaton of phe vend pobras.
A woman, aged 45, was admitted into St. Rarthomen's Hospital for dropsy, She stated that she had been in porect heahth sia woeks provionsly. The catamonis wero at this then suppressed, and the case was treated slighty, with the oppectation that on the retmen of the materal discharges sho would rovover. She was, however, whed with pain and stereorsceous vomithes, and dead. On examination, the vema porte way fomd oblitersted to within two inches of its entrance into the liver. The sphonio and superior mesenterie veins wore provons. The gastrio roins were hugid, in wonsequento, no doubt, of their catering the obstructed part of the vena porta. The liver was healthy, and the gall-bladder gorged with bilo. Hepotic, eystio, and duetus commuis choledochus were pervious. Hardly a vestige of the paneroas, nothing but a fory teve sob-rhus-liko lumps, was fond, suggesting the dide that tho obstroction might havo beon originally owing to a diseasod state of the pancrens, The hepatio artory was of matural sive.-Lumete.

##  TUE FIS BL THE LICATURE.

(Under the are of Dr. Hikown-Ssevand.)
The following case is one of those in which the applention of the ligature to the arm was followed by compheto arrest of epileptia tits. In many eases tho ligaturo does not provent the fit, but, as in another case now in the hospita, it apporys somewhat to dianimish their soverity. It is certainly a fact of groat importaneo that a measuro so simple, will, in some cases, however few, break the chain of morbid phonomena, the ordiany result of whieh is so serious as a fit of epilopsy,-for not only toos the pationt sutfer from the individun fits which might thas be provented, but ench fit, hy the disturbance of the nervous system, increases the liability to tuture attacks. There aro other parts of the body from which an sure arises. In one oaso wo havo rohated, they started from a small tumour on the forehead, and in another, below the loft brenst. Both these patients wore much benefited by the application of the actual cautery. Wo also alluded to another case in which the aura startod from the foot. In this onso too very great benetit rosulted from the actual cautery locally applied, and also from tho ligature.

The following very brief account of somo for points connected with Dr. BrownSéquard's experimental rosearch on epilepsy may perhaps be interesting to somo of our readers iu relation to this ease. He foond that certain injuries to tho spinal cord in animals (of which section of one lateral half was tho most certain) wore followed by epileptiform courulsions. The convulsions would come on eithor spontaneously or after cortain "excitations." One modo of producing them by exoitation is to prerout tho snimal from breathing for a short time. Anothor (and this is the excitation to which We wish to draw attention) is by pinching the skin in certain parts of the face and

 power fe very limited. The parts mpoplied by the various branchas of the uphinalmie

 perhatas of the third eervital. Dir, Brownficquard proves clengly that the fite are ant



 protuce convulaions, Often even a wioh or even blowing on the part of the face




 mive to produce convulabons, white the frritation of the very nerve conneoting it with Whe brate does not produce any." These experimente whow "that evera whare ahe gri-



 of the face of tany animat,"
 the pastrife of an aura during ite use entirtiy kept tack fite of apnejazy. He thowe also that caticrizution of the part from which it procedede, or tise section of a nexve, or






 part of the skin or from the sensitive nerve of a soukele".
He points out the mode or detecting the seat of sucb an nura in the arm by tar applis cation of localised and powerful gritynic curbente, or by the application of loe, or of a
 1857,") from which we have eondensed the grecedins partieulars.
 Smith, the Houscesiargeon:-
 beroditary vendency could be traced, wasadmilud as an inopatient for epilepey; When theve years old she bad woro" fite," but they did not ocrur again antil hae age of ten. For two geare after the firtt fits हhe lost fesh, bat che afturwarde foprowed argain, The



 she was fourd in a fit. She was moveh convolsed; but ker zoother dous wot rememiser on winch side she was the most affected. Some weske elapsed before the aext fit, they then occurred once or twice, zonatinuss three or four tituee is antek. Ghe was under treatroent by several Medical take: The fite always, commenemi by an aura startiog from the finger of the left havi. While in the Hoeptal whe had wayy warniogs of apo proaching fite, but they ware always staved off by the agylication of the ligature. She
was in the Hospital for about one month. During this time she took the extract of belladonna and extract of hyoscyamus twice a-day. Three days after sho left the Hospital she had a fit, as her mother did not know how to apply the ligature. Dr. Brown-Svquard directed a blister to be applied round the arm, in the hope of, by this means, preventing the aura from passing upwards.-Med. Times and Gazelte.

# ON CERTAL POINTS CONNECTED WITII DLABETES. 

${ }^{\text {tr }}$ F. W. Parr, M.D., Professor of Physiology, Chuy's Itospital.<br>Abridged from the London Lancet.-Continued from page 7.t.

I have thus brought our knowledge regarding the gluco-genic theory down to the present time, and from the investigations as hithorto conducted, tho evidence appears conclusive enongh in establishing the existence of a glaco-genic function apportaining to the liver. An animal kept for some time on fuod deroid of sugar or sugar forming principles, its life destroyed, and a considerable quantity of sugar is found in the blood escaping from the hepatic veins, whilst none or next to none is found in the blood of the portal veins going to the liver. Further, the liver is the only organ of the body in which sugar cau be detected, and here it is found in considerable quantity, but further still the sugar forming substance found in the hepatic coll can itself be isolated, and the process of sugar formation satisfactorily exphained. What then can bo wanting to establish more fully the gluco-genic function? Still the position of the matter is this, experiments have boen performed, and results obtained, the accuracy of which cannot be impeached. But these results lave been derived from post-mortem examinations, taken to represent the ante-mortem state. By a different mode of experimenting than that hitherto adopted, very different results are obtained and here is the ground of my opposition to the gluco-genic theory. The blood in the right cavities of the heart, that in fact between the liver and the lungs was found highly charged with sugar. Now unless certain precautions aro adopted, false conclusions will bearrived at. In conducting experiments on the injection of blood through some artifianly inflated lungs, I had been in the habit of using blood collected from the right side of the heart after death, but subsequently procured it from the living veutricle, by a process of cardiac catheterism, an operation easily performed without leadiag to any sensible injury to the animal. An instrument is used specially curved for the purpose; it is introduced into the right jugular vein, and passed down through the superior cara to the heart. The blood thus removed from the living animal presented a totally ditferent behavior to what had hitherto been considered as belouging to it from collecting and examining it after death. I had been accustomed to meet with a strong reaction of sugar as belonging to right rentricular blood. In five quantitative analyses, I found the proportion of sugar to vary from half a grain to one grain per cent. in difibrinated blood, but in that withdrawn during life, I failed to discorer moro than an appreciable indication of the presence of the saccharine principle, indeed, I at first thought the amount would be too small for quantitative determination, but I have since succeeded. The greatest care was observed and the amount of sugar found to vary from a proportion
 draming tho blood from an animal during life it is necessary that the animal should be in a perfectly tranquil state at the time of its remoral. Should there be any struggling or embarrassment of the breathing considerable indication of the presence of sugar is certain to be met with. Under great disturbance of the circulation from embarrassment of the breathing, I had noticed so large an amount of sugar in the blood, that I felt convinced it would be discoverable in the urine, were the condition maintained a sufficient length of time. After muffing the muzzle of a dog so that the supply of air is reduced short of producing asphyxia, the urine in an hour's time is rendered strongly saccharine. The administration of chloroform must also be
avoided. Chloroform not only reacts itself upon the copper golution but through its influence on the circulation determines to a greater or less extent an unnatural flow of sugar into the blood. It is not absolutely necessary to resort to catheterism of the ventricle to obtain a specimen of blood having the natural character belonging to life. Life is destroyed by pithing, and instantly afterwards the chest is as rapidly as possible opened, the heart seized, and a ligature firmly applied around its base: the blood is then collected from the right ventricle, and if the operation has been expeditiously effected, it will be found as free from sugar as if collected by catheterism in a tranquil state during life. After the destruction of life by pithing the circulation continues for ashart period whilst the respiration is instantly stopped. One of the principal argumenth of the gluco-genic theory is that after the administration of animal food the blood going to the liver is devoid of sugar, whilst that flowing from the organ is highly charged with it. I have girenuously urged that the saccharine state of the blood which is found after death is not its natural or physiological character. In experiments I have made and in which I have observed every precaution to obtain the specinens precisely in the condition that is natural to life, I could not perceive the slightest discoverable difference of behavior between the blood of the portal vein and that of the right side of the heart. We learn from what has preceded that there is not a flow o sugar into the circulation to be consumed in the lungs, which the former mode of experimenting led phyeiologists to believe. After death and under morbid states during life it is true, there is a large escape of sugar from the liver, but as a normal condition there is only a trace of sugar in the blood between the liver and the lungs, and this trace is met with in all parts of the circulation. Quitting now the blood I shall next direct attention to the organ itself, which has for years past enjoyed its reputed glucogenic function.

> (To be continued)

## A NEW OPERATION FOR THE RADICAL CURE OF MERNIA.

By J. J. Chminom, M.D., Professor of Surgery in the Medical College of South Carolina.
Few subjects have engaged so much attention within the Last few years, both among European and American surgeons, as this of the "Radical Cure of Hernia." This is due, doubtless, both to the exceeding frequency of this disagreeable condition, as also to the various methods recently proposed for effecting such a cure. Gerdy, among modern surgeons, led the way; Wutzer, Bothmund, Schuh, Langenbeck, and othere, improved upon his method. All these operations propose to effect the cure by inserting a plug into the inguinal canal, and by the irritation thus produced, to excite sufficient inflammation in its coverings, to obstruct, if nct to occlude this canal. Each new operation, in its turn, claimed the most splendid results. The succassful cases were published by hundreds; but the thousand of failures were unheard of. This was doubtless owing to the fact, that these results were soon published after the operation; too early to decide positively, whether they would be permanent or not, for the deposit of lymph forming the adhesive bands is very apt to be absorbed, and upon any unusual muscular exertion or "strain," the hernial protrusion reappeare, very much to the dismay both of patient and surgeon. Indeed, we may not venture too far in asberting that the successful cures are, perhaps, generally, cases where the lesion is of racent occurrence, or in individuals but little exposed to undue muscular exertion, and who would find sufficient relief and protection from a good truss. Wutzer's operation is applicable only in recent, small, oblique hernis, and where we can select our cases, we perhaps may be rewarded with a success of fifty per cent.; but in average cases, failure is the rule, and a radical cure the exception. Nor is this all; for in many cases of failure after this operation, we have the canal more dilated than before, and hence a greater hernial protrusion. This operation, and the principle apon which
it is based, aro now generally disuarded, owing to the fact that Mr. Wood, of Lombon, some two years ago, discorered and published a new and ar superior methol for atlecting the same end. Ho makes a suall subentaneous lnelston in the upper and anterior portion of the scrotum, dissects the fascha, and invaginates it luto the lingulan canal, then pasing a neddo with thick thead through three poluts in the canal, viz., a conjoined temdon, the triangular faccia, and the external pillar of the ring chase to loupart's ligament. The ents of tho ligature ame let in the two former pumetures, amd the central loop in the latter, pasing through the pillar of the extormal ring, and through the same opening in the skin of the grom. A compress of ghas or woot is then tied firmy upon tho axis of tho eanal, by passing the embs of the ligature through the loop, and tying orer the compress, The adrantages of this operation ever all its predecossors are obvions, and la suceesses in a high degro encouraging. It is adapted to inguinal hemise of every varioty, lage and suall, ohd and recont, direct or oblique. From in caso of fature, the patent would be in a better condtion than before the operation.

Dr, Chisholm, Professor of Surgery in tho Medleal Oollege of South Carohia, after seoing Dr. Wood operate in Jane, 1850 , thinklug that the incision in the skin was unnecossary (an tho invagimation of tho fasela atono did not obviate tho objeotion Mr. Wood expected to meet by this process, vic., tho provention of any drugging upou tho invegimated serotum), modified that operation, first, by invaginatlag without lincishon, as in Whatar's; and soeomly, by only making two panctures instead of threv, De. Chisholm believed that a single loop passed from withou through tho two colmans wouh bo suntichat to obliterate the ring, and keep the columus in appesition, until the lymph efused in the sito of the thread woud cause adhesion, and permanent obliteration of the ring, restoring the extermal oblique to its primitive condition, beforo lis fibres had beon forced asumder by the protruding body. The fitst easo operated mon in this manar was in November is, 2859 , and the operation has been often since repeated, both by himself, and others in this eity, with the best rosults. Dr. Ohisholm published this operation in the Otarleston Modieal journal for May, lsio. In the Lomion Modiea Times and Gazetto for Fob'y 4, 18tio, two oases wero roported by Messrs. Curling and Furguson, adopting nearly the same moditiontion upon Wood as this of Dr. Chisholm. The honor of priority, howover, belongs to tho Amorican surgeon, Dr. O. having operated Now, 1s, Mr. Curling Dec. 1, and Mr. Ferguson Dee. 17, 1860. Other modifications of this oprration have sinco beon suggested, but of minor importance, suoh as the ditferent curves of the needles employed, the clamp upon which the ligature is fistened externally, as also the matorial used tor tho suture. Although Wood's operation is a groat improvement upon all proviously devised, it still has its disadrantagres. Eren if wo overlook the incision which complieates the operation, and would deter many from arailing themselves of its advantages, we still have the length of time necessary to kvep the pationt in bed-unt loss than from twenty to thirty days; after that, a trass has to bo worn for a considerable period, to counteract any undue pressure upon the recont inflammatory agglutinations. The supparation from the sutures, and the oontinuous pain comected with the inthmmation, are likewise disadvantages. Those, and other considerations, havo induced Dr. Chisholm uot to rest satisfied with the suceesses gained, even by his mollfication of Wood's operation, but to add a still greater improvement, simplifying the ontire procedare, and obviating nearly all the objections which havo been, or may bo urged to Wood's.

The new operation is as follows:-
The scrotum having been invaginatod upon the finger, the the only mode of guiding the needle in its passago-a long strong curved needlo, fixed firmly in a handle, and armed with silver wite, guided by the finger, transfixes the scrotum at the apex of the invaginated portion, passes through the internal column, and appoars through the skin of the sbdomen, when one end of the wire is drawn out. The point of the needle is then dramn backwards, and disappears again in the camal. Its direction is thon changod. Whilst still imbedded in tho sorotum, nud guided upon tho fingor, its point is made to
traverge the external column of the ring near Boupart'e ligument, lifting the skin of the nudornen. By fldiag the skin upom the needte, the porint mppeare through the bmall puncture made by the diret pmexage of the ateitie; when the atsiser end of the wire fo sefzed, the netede is unarmed and withdrawa through the zerotana.

The finger is now remeved from the canal, and the two ende of the wise being drawa upon the lopp diesecta the cellolar tiesace up to the colurany, which it huge alosely. fy twisting the two ende of the wire the columbe are foll appronching, until they are

 ring is foll closed, the iwisted wire is drawn firmig outwarda, and ofipjed off as ciose es possible $w$ the akin, eo that when the traction on thes akin of the abdemen is removed, the gliding back of the intequmente to their uorwal pasition, conceale completeiy the
 dent position, und the omly trace of an operation haviog beren perforned is in the two
 search wo find thein, and which will heal up in atewhomere, hermetically incarcerating the sllver wirt.

A moderate inflamation follow this rperation, whout much welliwg of jain, and
 which will not only fucloee it, shas isoluting it from the tisauce, lat at the sarac bince agglutinates the columpe wotether tex an miditional security to the suceces of the operam
 phases ; ofinn turing been given to insure reat, and prevent any action on that bowela. Whon the infmanambery stage has pased, a cathartic is administered, and the patisnt can quit the bed, and in a fisw days posume hit occupations, The silyer wire remaine an a juermanent appilicution. An essentia! clezagnt in the encerser of the operation he that
 otherwise the columas caunot be approsiched, the ring remains open, and the results can only be negative. If this skep of the ogreration be carefully followed, a radical cure may nearly be gunranteed.

The advantages of the operation are as follows: the pationt is not desuined in bed on his back for three or four weaks as in Wood's or in Wutzerts. No excese of spfiammations is to be uppreheded. No subsaquent use of a truse is puquired, asd there is no fear of a retarn of the ruptare from the giving way of the recently formed but etill delicate adhesion, through any undue muscular sffort on the part of the natient, for the reliance is upon the eilver boad-the surgeon baviag provided his pasient winh a aever-finiling silver truss. The operation is applicable to hernias of every cisarncter. When the protrusion is large, and the rings voluminouk, everal points of suture might be applisd, through the eame puncture in the ecrotum, and skin of abdomen, taking advantage of the fucility of gliding thege fategumento over any portion of the external uidominal riag.

The objections which may be arged againet ahis operation will probably be, that tae silver wire will always act as a foreign enbistance; but from the experience of Dre.
 ezuerience in ity application in hernial operations, we know tbat it can remain harmlestly inobedded in the tispues for suy length of time. Of course, fisx or sillk sutures cannot be used in this subcutanegus operation. Another objection porthaye say be, thent Abe cut-off twist of the wire will irritate and uicerate the ckid. Eut tbis bas not bota found so, for the skin here is very loose, and therefore not so liable to be lujured by a brall forcign body benealh it ; and we have every reason to believe, that a deposit will soon encase it, and reader it permanently innccuous. These views, were first practically carried out upon the living eubject, Noy. 17, 1880, at the gargical elinique, in'the presence of the clase and a number of professional gentemen. Three cases have gince bern operated upon. And as hernise ate exefedingly common lesions axoong the ledoring
negro population of the Southern States, and as the carelessness of this class of people renders the advantages of a truss nugatory, ample opportunity will be afforded of testing in time the validity and superiority of this operation over all other modes of radically curing inguinal hernin.-American Medical Times.

## Patent foramen ovale.

Dr. Bowditer reported the following case:-
The patient was a lady, 45 years old. In early girlhood, and till the age of 19 , she was able to indulge freely in every sport, even the most active kind, in all of which she was foremost. These exertions she bore without the least difficulty. At the age of 19, while dancing at $a$ ball, she first noticed dyspncar on motion. A few years subsequently she married, bet never bore children. From the above named period the dyspnca had continued to increase, but only showed itself when going up stairs, or walking up : hiil. She never had a severe paroxysm except once, while running, and after doing so, she thought, on one occasion, she should die, the breathlessness was so great. There were no accessions at night. Palpitation had nover been noticed; bui a certain lividity of the lips was perceptible when the breathlessness was greatest. She had had occasionally a cough, but nothing for which she bad ever consnited a physicinn.
Her digestive, menstrual and renal functions had been perfect. She had never had œdema of the feet. Dr. Bowditch saw her, in consultation with Dr. James Jackson, five years ago. At the first examination it was evident that breathlessness was easily excited, and with it the lividity of the lips, but these were specially excited by a trial of going up a flight of stairs. The pulse was perfectly normal, and the physical signs about the heart were those of absolute health; and there was no hypertrophy. Neitiner Dr. Jackson nor Dr. Bowditch could discern any positive evidence of organic disease, and the affection was regarded by both as functional, although differing from most cases of simple functional derangement.

Digitalis, \&c., were tried for a short time, but soon all treatment was given up, save the avoiding of everything tending to cause the symptoms.

The symptoms continued slowly but steadily to increase. The breathlessness finally became so great that the patient could not walk at all, even on a level, without great suffering, and the lividity of the lips was more marked and more permanent. The cough, still occasional and hard, had nover been continued, so as to need medical advice. For the past five years the urine had often been dark, with a copious sediment.

Dr. Bowditch was again called about two months ago, and found the patient suffering extremely with permanent dyspnooa, and a sense of constriction and pain across the front of the chest, with other symptoms as above stated. Still there were no physical signs of cardiac disease, except that the heart, on percussion, seemed a little larger than usual. There was no irregularity, no murmur. The pulse at the wrist was good. There were trivial signs of disease at the apex of one luag, but not enough to attract much notice, and totally incapable of explaining the severe symptoms. Examination of the urine showed only urates-no albumen, no casts. Tho patiant sank in a few days, with great pain and distress across the chest, intense dyspnoea, and extreme lividity.

At the autopsy, the right cavitios of the heart were found much hypertrophied; the left were normal; or nearly so. The foramen ovale, an inch in diameter, was round and smooth, with a thin edge. All the valves were perfectly normal. The lungs had old tubercular disease to a small extẹnt, in both apices. Owing to ciroumstances beyond control, the other organs were not specially examined, but they seemed normal.

The curious points in the case, Dr. B. thought, were these: 1st, the faot that the foramen ovale began to be permanently open at the age of 19 , after dancing. The case probably was one of those in which a valvular opening existed before it became permanent, and had gradually increased during the thirty-eight years of the patient's subsequent life. Such cases are on record, though rare. 2d, the absence of all physical
signs was interesting; and yct, a priori, there were no reasons why this lesion shonld cause a murmur. It does, however, at times produce an obscure souffle.

Dr. Janmon said the case was probably valvular from birth, becoming direct in after life, with the usual consequences. He showed several dried specimens, preserved in the cabinetof the Society.

## THE INHALATION OF NITRATE OF SILVER.

The importance of this remedy in Laryngeal affections is recognized, but the difficulty has been to apply it with facility. The plan suggested below by Dr. Studley of Yorkville, N. Y. seems to possess merits over those in common use, and we therefore give it. We extract it from the American Medical Times of March 2, 1861.
I pulverize the nitrate of silver in a moderately heated wedgewood mortar, to an impalpable powder; I then triturate it with sugar of milk, according to the strength which I desire-generally mixing them in the proportion of one part of the caustic to two of sugar of milk. This powder I put into a glass-stoppered jar of the pint or quart size, being careful to have the jar thoroughly dry by heating it. I place in the patient's mouth a glass or tin tube, one inch in diameter, and some eight or ten inches in length. Giving the jar a good shake and pulling out the stopper, I tell the patient to plange the tube into the mouth of the jar and inhale. The cloud of powder which was seen floating in the jar, passes into and sprinkles the air-passages thoroughly. From one to three inhalations at a time is sufficient, and abont twice or thrice a week. The powder can bo kept in good condition for about a month, the main trouble being the heating the jar every time you wish to use it, in order to drive off whatever aimospheric moisture may have collected. In all instances where it is desirable to go below the epiglottis with this remedy, I know of no way more efficacious than this, and being simple $i^{t}$ is within the reach of all.-Med. Times.

## CASE OF HYSTERICAL SINGULTUS.

Dr. Ottoni relates the case of a woman, aged 42, widow of an impotent husband, Who after suffering for years from hysteria, which had been treated by excessive bleeding, became the subject of that distressing form of $i t$, obstinate singultus. This, at the time of the author's writing, had lasted thirty-four months with rare intervals of ease, notwithstanding the use of various remedies; and it was always found that any temporary amendment was followed by a subsequent redoubling of its severity. Electricity seemed to be of most benefit, but was not persevered in sufficiently.-Ibid. Vol. clxaii. p. 603.

## HYPODERMIC MEDICATION BY SULPHATE OF QUININE.

The subject of hypodermic medication is now attracting much attention. Much has been said about its great efficecy in neuralgic affections, where the effect is supposed to be a local one, though, et times, the constitutional symptoms are quite marked.

The results of experiments perforned by Dr. I. Sanger, of Davenport, Iowa, with sulphate of quinine, and reported in the New Yorl Medical Press for June 16, 1860, prove that this drug, at least, acts after its absorption. The article is quite lengthy, .but the following conclusions contain the substance of the author's labours:
"1. Certain agencies most powerful when hypodermically used will become incfficacious when administered in stomach doses.
4. 2. Sulphate of Quinine injected into the areolar tissue will act quicker, more powerful, and with equal if not with more certainty in subduing the primary symptoms of malarial infections, than when administered by the mouth.
"3. Sulphate of Quinine injected under the corium even in large doses, one scruple at one injection, will not produce excessive cephalic symptoms.
"4. Sulphate of Quinine injocted under the corium, if neoessary, during a paroxysm, will be followed with less aggravated symptoms than in stumach doses.
" 6 . Where the Sulphate of Quhine is indeated, the looal leritation of the stomach and appendagos constitute no ooutra-indieation.
" 6 . The injection mast atways bo mado under the corimu.
"7. The solution must bo rendored noutral to avoid unecessary pains.
"S. For the same purpose, also for dissolving the orystals sometimes precipitated in a solution of Sulphate of Quaine, the temperature of the solufion must be hereased to blood heat and orer.
"s. Sulphato of Quinine hypodermically appled is received into tho system in a groater state of purity than when given by the stomach, where it may become contaminated or decomposed."-Doston Med, Journal.

## WMSKEY IN TETANDS.

In the Lowsuille Medicol Nees, for Soptember, 1860, Dr. A. R. Sook has an article upou the treatment of tetants. He reporta a case troated with whiskoy, in whith the results were perfoctly satisfadory. The usum trentmont was pursmed for a timo, with no improvement. Two onnees of whiskey were then ordered to be given every two bours, and the symptoms abated, and in due time the pationt rocovered.

Dr. Cook says, "From the evident good edfoots of the whitsky in this case, I would administer it with more hope of success than auy other remedy with the result of which I nu at presont acquaiutd.".-Amerioun Aldedical Monthly.

## PUMPKKIS SEEDS IN TANA SOLUM.

Kousso and tho etheroal tincture of male fern are certaing vory efforeons in offooting the expulsion of the tenia; but praetitioners should note the results obtained in Algeria by M. Tarnenu, a military surgeon, Freo ton drachms of pumpkin-seods from their husks, pound thom in a mortar with a suffioienoy of sugar, and add to the prato thus obtained a cup of mitk. The pationt should be put on a very low diet, and bo given a suall dose of castor oil; on the next morning the pumpkin-seed eleotuary must bo taken at au early hour, and from twelve drachms to one ounco of castor-cil two hours afterwards.-Lomdon Lanet.

The first aecount of tho use of those seods in temin is by Dr. Jones, of lioston, and the romedy has beou in uso in this country for yars back, It is oither given in tho form of the exprossed oil, which is the antive portion, or as noova.-Ed. Druy Cir.

## QUININE IN THE TREAIMENT OF ACUTE RMEUMATISA.

In the attanta Mreitical and Surgical Journal for September, Prof. J. G. Westmorelinud has an article upon the trontment of rhemmatism. Mo says, "Quinine is not mon certain to arrest the progress of malarial ferer than it is to allay the symptoms of rheumatism," He would givo Quinine in from fire to ten grain doses, in combination with from one to tro grains of opiun. Ho says " Quinine, in the trontment of rhomantism, es in ferer, shonld be given in quantities sufficient to impross the nerrous'system fully." Further, and more specifically, he says, "In order to insure the tonio or invigorating influeace of it upon the nerrous contres, sufficient to ootnternet the disense, the amount of fifteen or twenty, and sometimes thirty grins is roquired."medical Monthly.

## MIDWIFERY.

## ON IBE VALUE OR ANASTMETIO AID IN MDWXRERY.

By Cuaulen Kind, M,D., M. H ,C.S.

In obstetric practice, the instances where the author has found the Inhalation of ether or chloroform to be called for in an especial degree, and where ansethetic aid bas proved decidedly usefol, have becen cases of version, forceps, twins, convulsions, and crotchet operations. He has known chloroform ueed in pucrperal manta, but ite upparent effect is pendapis a colncidence, and not of a curative nature. The author referred the Bocicty to his pruvious work on "Anegthettes," where the result of zan canes of midwifery treated under cther, and 1700 under chloroform, whthout accident from fatty heart, are described. Of these two agents (though thare have been twenty-five deaths from cther in general surgery), he betieves ether is superior to chloroform in relaxing rigid perineum in labour, and othersing acting on the muscles of the uterus, in verston cases particularly. There have been no aceidente from chloroform in about 30,000 cases of midwifery conducted with the ald of those agente. The mode of applying chloroform in the lying-in chamber recommended was that wheh is adopted now by all the ofief ohstetric practitioners in Surope and America with whom the author bas persomally communicated on the bulject. In midwifery practice, the crror of using "mixtures" of ether and chloroform was explatied, as a patient supposed to be inhaling a mixture is in reality liblating pure cther, and there is a danger of confusfon arising in mistaking ong andesthetic for the other, A new aneethetic of chloroform and ergot mired was also mentioned.

Cases of twing, where the second child presents with an "pper extremity, "the pains severe and continuous, so that it is next to impossfle for the accouchear to introduce his hand to turn the child," were first described, where chloroform is invaluable, if there be no contra-indication of diseased heart, \&e. The several indicatione in undiLated os uteri for tartar enetic, liquor opif, or chloroform, from the result in actual practice, were explained. Next those cases of twins were pointed out where at one particular stage it is judicions to allow an interval of rest to the uterus , here ammonia and ergot act like a charm; not that chloroform is injurious, bat it requires to be given beforg or after ergot, and not at the game time. The author said that if, in jourwale, half the attention were given in fact to these points that is given to quack compounds of chloroform, all would be right.

As in some caxes of twins, so is it in some cases of "tedious labour," the patient requires an interval of rest to renew reflex action and remove the effect of exhaustion, "false pains," emotion of a depressing kind, slecplessness, \&c."Thus, an inexperienced or constitutionally delicate young woman, with her first or second child, becomes alarmed, slecpless, \&e., during ber labour. Some indigestion, diarrhosa, or fright, has hastened her lahour before its time. The first stage of labour has been attended with suffering; followed by futigue. Here the pains axe ineffectual in advancing the labour; but if there be no discased heart or other contre-indication to ansesthetics, the author Btrongly advocates their administration in the manner pointed out in the memoir.

How docs sleep during labour differ from ansesthesia? sleep, aecording to the author, occurs only where there is exhaustion of sensorial or muscular power; anssthesia is best where there is no exhaustion; it is independent of sleep. The teflex power of Jarshall Hall is the frontier or limitiagline between eleep and ansethesta ; in glecp it is active, in ansesthesia abent. In tedious labour, the agony and pain will not permit the poor woman to sleep. Even opiun is followed but by a tedions intoxication, without glecp, for hours; but chloroform ts not an intoxicant, and acts atone nad quite as safely. A patient fn ordinary ansethesia may be baid tote doubly aslep. This is what is wanted for a short time in this class of labours, as thus reflez, sensorial,
and nuseular power are renewed. Fmotion, also, is removed out of the way by ohlow roform sleep; and by a confldent, cheerful demeanour on the part of the nconohemr, be may elfect as much in two or three hours by ohtoroform as he might in almast as many days by delay, and oplum, and waiting tor naturo.

Cases of versional dellvery, with and without chloroform, were next minutely doscribed and compared; cases espeolally of excossive sensibilty of the os uteri and ragiat, where the waters have loug come away, and the ateras has dosod with spasmodie forve over the fetal hand aud arm. Oue well-known obstetrician has had 900 such cases; aud ho is overy year more and more satisfed with the ald atorded by choroform, The value of versional delivery and ita rationale wero also enlarged mpa, as well as the mach-to-be-desiderated probahility, of the abolition of oraniotomy, and of many cases where the forcops is umecossurily and oruelly rosortol to at presont.

Next to version cases, the usethenesa of choroforiu in foreeps patents was oxphatned, and directions given as to the modo of adminiatration. Ohtoroform in aborton cases at the fitth or sixth month, as adrocated by Dr. Tyler Smith, was also dwelt on; and oven in cases of placenta provia, as administered ly Protessor Slapson, Denhan, and others. Choroform, as tachitating delivery by means of vergion, has beon tried with adrantage to anticipate hemorrhage. Abmonia or braudy is irst given, chboriform then administered, the feot brought down, and the remainder lett to mature as the chioroferm wears ont:
The treatment of particular forms of puerperal vonvulsions by ohloroform was atered into and explained, enpecially its usedulas in that form common in poor unmarribl women-conrulsons the omsequeuce of mental emotion, or epfleptic exeltement; but in the class of eases tewding towards, or the result of, apoplexy, and those with abouminurim, the use of chloroform or opium must be somewhat secoulary, Dr. Kidd thinks, to the general treatmont and general relief of the congested corebral or spinal membanes. The author is not favouruble to the use of anesthetios in the simplo hystorio varletles of the disease, hysteria generally belagg one of the contra-indicatlous to the administration of chloroform.

The law of tolerance of chloroform in midwifery is not unlike that of the tolerance of ammonia, steel, bark, wine, ophum, Ao. All these medicines are of exemeding value where there is present shock to the hervous mather than to the vasoutar system, Chloroform is duvaluable where thero is exhaustion, debility, or shock, tho result of great or longcontinued pain; where there is lows of nerve foree, or convulsions trou excess of reflex irritability or pain, or mental emotion or exeitement, so. Bit chloroform is of less importanes, ss even wine, hark, lron, amonia, de, we of less nse, where there is exhaustion the result of hemorrhage, hectio, diarrhoe, exhausting sup, puration, de. Such diseases as chorea, asthma, whooping-eough, tetauns (not unlike puerperal convalsions), are botted out by ohoroform, no matter how apparently weak the patient may seem; but it is difterent with debility from hemorrhage or diarrhon.
The auther's further experience of ehloroform, in operation cases of eraniotomy, resico-vaginal fistula, ovariotomy, enucleation of uterine tumours, se, in which ho has sdministered it largely, was, in conelusion, recited.

Dr. Tanxes stated that he mado it a rulo always to take chloroform with him to every case of labour. When the pains become bad, he expanins to the patient-provided be fuds no objection to the empleyment of an suresthetio-that he can rolieve her of all suffering, if she wishes it, by means of chloroform. Many pationts are nuxious to inhale; a fer dechiue. During the prosent year, Dr. Tanuer had only one ease in his prisate practice which had eased him much auxiety; and in this the dangerous symptoms arose, as be beliered, fram the formation of a clot in the right side of the heart. This lady did not take chloroform. Dr. Tanner observed that ho was careful only to give this anasthetio during each labour pain, taking away the handerehiof or intaler directly the pain went off. Stating the results of his axperience briefly, he might say that he had never found chloroform do harm, but, on the contray, much good; whilo Ii shortened the after-period of convalescenee. He was oaroful, in oases where ho
feared hamorringe, to give a large dose of ergot towards the close of the labour; but he did not object to the use of chloriform an well, In operative midwifery anasthetics were invalualle.

Mr. Gauvis referred to two cases of denth from chioroform which hed cone ander his notice in hospital gurgical practice, in both of which the patients had previously jeen the subjects of dellium tremens; and in both the muscular tisaue of the heart was found, after death, to be soft and greasy-a coadition, indeed, which the result of many examinations ghowed to be tolerably uniform in most cases of death from delirium tremens. Mr. Gervis considered that these cases, though not obstetric, would tend to, corroborate the view of the unadisability of mininistering chloroform in habour where the patients had been the subjecte of alcololism.

Dr, Bannes rose to disclaim all responsibility in the case of death after chloroforma which Dr. Kidd had cited in connexion with his name. The chse had been related by Professor Vaye, of Christiana, He (Dr, Jarneg) had simply recorded it in an English journal, With respect to the inse of chlorofurm in chatetries, Dr, Barnes had found, in a large experience of turniug, that in many cases charoform did not facilitate the operation. The influence of the brain removed, the excito-motory eystera stemed to act more violently, and sometimes spasmodically, the uterus resentiag the fatroduction of the hand. Uader ordinary circumstances, turning could not he regarded as a zevere or painful operation. Delivery by tarning was sometimes lese painful ban by the head. Again, in ordinary forceps cases, chloroform was certainly not required either to facilitate the operation or to allay pain. In operative midwifery, chloroform was hast useful in turning where there was unusual diffectity, and in diffenltdelivery after craniotomy. It appeared to him lacomprehensible bow a special immunity from the perils of chlorofora should persain to puerperal women. To say that 40,000 women had taken chloroform in labour, without any mishap, was one of those yague statemente which ware entiled to litle weight. He had himself given chloroform to faclitate the extraction of an adberent placenta, and had wituessed such exceediug prostration for three hours aiterwards as to make himand another practitioner, who assisted, spprem hensive of the fastant death of the patieat. Ife should be sorry to haye it anpposed that he entertained any prefudice againat chloroform, He knew its yalus in certain cases, and gave it with care, and yet without timidity, and should not be deterred either by the bad elfects he had witnessed or by those he had bisard of from giving it on proper occusions. He had been especially gratifed with the beneficial eftecte of chloroform in cases of great nervous excitement, where the patients laboured under a sense of dread of impending danger, and where even convulsions seemed to impend, Ho, belfeved he had thus averted convalsions, and had certainly accelerated dabour. He thought it worthy of inquiry why ansstbesia had made so litule progrese in Germany, where interference in labour was so much more general. It was also worthy of remark that English midwifery maintained its greatly superior success, notwithetanding the fatroduction of chloroform.

Dr. Gacha sald that, from some observations which had been made, it might be inferred that chloroform was but little used in nidwifery in London; but he was sure that in no place was it more extensively emplojed, and he could positively state that amongst the upper classes it was almost universally exployed, but with a zeneral fecling of abhorreace of anything like intense insengibility. Surprise had been zepressed by Dr. Darnes at the statement that so large a nuxaber of cases had occurred in which chloroform bad been used in midwifery without accident; but there appeared to be no dificulty in understanding this, for it should be remembered that it was neyer right, nor was it required, to carry insensibility 60 far as in survery; and he (Dr. Greama) was sure that all the fatality which had attended the exhibition of chloroform in midwifery had arisen from sowe litlle want of care, or from a want of appreciation of its power. When ansethesia was first introduced he bud opposed, with others, the indiscriminate usg of it, for he thought that at that time it was xecklesely employed;
and he believed that the present safe and efficient manuer in which it was exhibited in London was the result, in a great measure, of the opposition offered to its former indiscreet and dangerous employment. It was a fact that no death from chloroform in midwifery bad oceurred in London; but allusion having boen made to two authorities "begond the Tweed," it was right to state that there the same immunity from calamity had not been enjoyed; yet he felt sure that no agent could be more safe, and none more beneficinl, than chloroform in midwifery when properly administered. Me thought the author of the paper had unintentionally exaggerated the ill effects (if there were any), and also the good eflects, of chloroform. For three reasons ho (Dr. Gream) thought chloroform most beneficial in labour: it removed pain, it rendered turning more easy, and it facilitated recovery; while the only detrimental elfect was in protracted labour with pelvic contraction, where, by lengthening the intervals between the uterine pains and slightly diminishing uterine power, it might cause delay; but its advantages in all other respects made full rocompense for this one drawback. In instrumental delivery of overy kind it was most advantageous, and he had seen fewor cases of hemorrhage since he employod chloroform; indeed he had exhibited it to patients who had habitually been subject to this occurrence withont hamorrhage super-vening- $\boldsymbol{a}$ fact worthy the attention of theorists, but nevertheless a fact. Each person had his own way of administering chloroform. He had tried several plans, but of late years he had omployed a common tumbler, into which he placed the chloroform, together with a clean pocket-handkerchief moistened with about two drachms of the fluid. This quantity ought to last two hours or more. The patient's face projected over the side of tho pillow, and the nurse or the husband (strictly under his direction)y placed the tumbler undor her nose and mouth at a distance of about an inch and a bal or two inches, and thus the vapour rose perpendicularly towards her. She soon expressed $\Omega$ sense of giddiness; but the tumbler was still retainod, until there was nearly an inability to answer any simple question put to her, and that should be the point beyond which no advance should be made. The chloroform should bo now removed, and be replaced in $a$ fow minutes; and by thus being replaced and removed from time to time, while the pulse is felt and the respiration watched, a labour might be conducted through its stages without danger and without pain. He had never, during the numbor of years he had used chloroform, had one moment's anxiety as to its effect upon any patient to whom he had administered it. The objest of the handkerchiof in the tumbler was to preventany chloroform from running out or escaping on : the bed if the tumbler fell over. He had found that any handkerchief or machine with which it was necessary to touch the face had the effect of rousing the patient, and thus did harm.

Dr. Druare said that he believed there were very few labours in which chioroform might not be used with bencfit at some stage or other; and that even when all the earlier stages go on easily and well, it is the greatest comfort at the final moment when the head emerges from the outlet. He did not bolieve that chloroform predisposed to hamorrhage; on the contrary, he knew women who had flooded severely in their earlier labours, when thoy had no chloroform, who had been confined under chloroform subsequently without hwmorrhage. Neither does it seem to retard uterine action after the airst inhalation or two, provided that it be used in the small doses which reason dictates; nay, it removes that obstacle to uterine action which is creatod by excessive sensitiveness of the orifice and passages, and which causes uterine action to be abortive. He knew a case in which, after a very slight inhalation, enough to tranquilize, but not stupify, the head was driven through, with rupture of the perinaum, --that external sensitiveness having been allayed which is a bar to uterine action. In cases of protracted labour from rigidity, such as happen to robust women who marry rather late in:life, the blessing of chloroform was incalculable. These were the cases formeriy treated by bleoding, tartar emetic, and opium ; and in opposition to the author, both opium and emetic-tartar, in minute doses, were admirable adjuvants in the proper cases. No amount of torture equalled that which many women endured from excessive
uterine action and quasi inflammatory rigidity of the 0a, and chloroform agreed well with any other proper remedy that might be devised. The only reservation he would make was, that chloroform should be used in the minutest quantity, and the minutest quantity sufficed. Two drachms was enough in most labours, a few drops at a time, to imitate the normal condition of labour ; that is, a short snateh of refreshing sleep at the end of every contraction, and a little drowsiness beyond. He had met with two cases in which a very small quantity of chloroform produced symptoms of angina pectoris, in women whose hearts were weak, and in such cases he thought the risk ought not to be run,

Mr. Browning's experience was in favour of the use of chloroform, especially in complicated and difficult cases of midwifery.

Dr. Rogens was glad to hear Dr. Gream so candidly avow the alteration of his opinions on the subject of chloroffam in midwifery. Dr. Rogers knew of one case, which occurred at Camden-town, in which death took place apparently in consequence of the employment of chloroform in midwifery. In his own practice be had never met with the slightest accident from its use.

Dr. Gramy Hewetry stated that the fatal case alluded to by Dr. Rogers, and which occurred some three years ago, was, as he had been informed, one in which the patient was labouring under alcololism when the chloroform was administered; the gin-bottle was, in fact, found under the pillow after the patient's death. This case was therefore confirmatory of the opinion adranced by $\mathrm{Dr}_{\mathrm{r}}$. Kidd as to the danger of chloroform in such cases-an opinion also supported by Mr. Gervis's experience. With reference to the general question of the danger of chloroform in midwifery practice, he considered that there could be no reasonable doubt that chloroform was neither more nor less safe in cases of midwifery than in other cases. It was well known that in operations generally chloroform had not proved always safe; and it was as reasonable to suppose that death might occur after the use of chloroform in mid wifery as after the use of chloroform under other conditions, the result not being connected in any way with the especial circumstance that the patient was in labour at the time of its administration. One question-a very important one, as he considered-had not been touched upon by the various speakers, excepting in a very incidental manner-namely, the effect of the employment of the chloroforin in cases of puerperal convalsions, on the data furnished by various recorded cases, he ind failed to arrive at any sufficiently general conclusions in answer to this queation. The difficulty of establishing the relation of cause and eflect as regards the action of medicines was universally admitted, and in reference to the supposed bencficial or other effects of chloroform in puerperal convulsions, the tendency of the evidence as yet adduced was not always uniform. In a case recently published in one of the American journals, the patient being affected with uremic symptoms, the occurrence of puerperal convulsions was anticipated, and chloroform was given to ward them off. The chloroform did not, however, prevent the access of the convulsions, althoughi it is stated that they were modified and lessened under its influence.

Dr. Txlen Smirn agreed with nearly all that had fallen from the previous speakers in favour of chloroform in obstetric practice. He thought it might be laid down as a principle in regard to its employment, that besides its value in allaying pain, it was useful in all cases; especially in operative midwifery, where it was desirable to moderate excessive action of the nterus, and to promote dilatation and relaxation. He held, on the other hand, that it was contra-indicated in cases where there was deficient action of the uterus, as in tardy labour from inertia, and in cases where hremorrhage was expected. Ho had seen it stop the course of labour midway, and he believed that post-partum hæmorrhage and retention of the placenta occurred more frequently after its use than without it. One good effect of the discussion on the present paper lay in the differences of opinion which had been elicited: The canses of thëse differences would be studied; and the truth brought ont. It could not possibly be correct that
chloroform relaxed the uterus so as to facilitate turning, and made it contract so as to increase the difficulties of this operation; or that it could both cause and prevent hæmorrhage. He had himself no doubt of its usefulness in difficult cases of turning. He had met with cases in which version had been accomplished by its aid, where without it the operation would have been utterly impossible. He had seen mania follow its employment, and he thought that in some cases the relation was that of cause and effect. He had also met with bad cases of rupture of the perinæum under its use. The patients were relieved from pain, but volition was not suspended, and under these circumstances, the violent and fearless straining efforts ploughed up the perinæum by the fotal head during the expulsive pains. It was of very great consequence to lessen, as far as possible, the dangers attending this great and beneficent agent. The influence of fatty heart, alcoholism, and other conditions, in fatal cases, had been much debated; but there was another source of danger which, so far as he was aware, had not been dwelt upon. He referred to idiosyncrasy. He had known patients affected to a poisonous extent by ordinary doses of ether or chloroform. He knew two ladies, in apparently good health, in whom a few drops of chloroform would at any time produce repeated faintings. He suspected, therefore, that some of the inexplicable cases of death from chloroform depended on idiosyncrasy, and before its administration it would be useful if patients were tested as to their tolerance of its effects.

Dr. Kidd, in reply, thanked tha Society for their very flattering and kind estimate of the paper. One or two points had dropped out in the reading which perhaps might be supplied. He did not himself think in forceps cases chloroform is indispensable ; but he furnished the usual directions for chloroform, whether before or after the blades were applied, \&c. Chloroform, by facilitating versional delivery, will lessen the present number of forceps cases. The President, in his able summary, mentioned "idiosyncrasy" as a probable cause of death. This can scarcely be, as, in 100 deaths, about 40 of the patients had inhaled chloroform (two or three, or even in some cases ten times) previously without suffering from it. The word idiosyncrasy is vague, and would cause unnecessary alarm, which always does evil. Delirium tremens, "alcoholism," hysieria, might be substituted for idiosyncrasy. As to hemorrhage cases and the use of tartar emetic with chloroform in undilated os, he differed from Dr. Druitt. The men of practice differed from the men of the pen. The views expressed by Dr. Barnes were also such as were held by no other practical man in Europe; that version could be effected better without than with chloroform. Mania from chloroform is a similar error ; and as to heart complications, diseased valves, \&c., this is also probably a mistake of one book copied into others. The respiratory system is, in reality, the point where accidents originate; but there has not been a single death from chloroform in midwifery practice.-Lancet.

## ON THE TREATMENT OF NAUSEA AND VOMITING IN OTERINE INFLAMMATION AND IN DISEASES OF MENS'TRUATION.

By Edifard Joun Tilt. M. D.

Nausea and vomiting. Were said to be comparatively uncommon symptoms in uterine affections, but very distressing from the loss of strength, and from the irritability which followed them. The fact of nausea and vomiting occurring so frequently in connection with otherwise healthy menstruation and with pregnancy was considered to explain why vomiting was a symptom of diseased menstruation; and. their occurrence during amenorrhœa, dysmenorrhœa, and menorrhagia, in which the body of the womb, and more particularly its lining membrane, is implicated, was given to explain why nausea and vomiting are frequent symptoms of internal metritis, whether chronic or acute: whereas it was said to be extremely rare to meet with them when the neck of the womb was alone implicated, for they neither accompanied its various kinds
of ulceration nor the catarrhal inflammation of its mucous membrane, which is the most common of uterine affections. Continued nausea was represented by Dr. Tilt as much more frequent than vomiting, most troublesome in the morning, going off after breakfast or dinner, increased by worry, excitement, the fatigue of dressing or talking, and being sometimes so irksome as to cause patients to refuse taking any food unless forced to do so. Some patients only vomiting once or twice in the morning, others more frequently. One only vomited at menstrual periods, and then incessantly for two or three days, with but short intervals of rest. Another thought that she vomited all her food for a year; and in one case the vomiting was continued for eight years, killing the patient at last by inanition. In most of these distressing cases there were no symptoms of biliousness, the sickness being a reflex nervous phenomenon, as in pregnancy. Dr. Tilt stated that uterine treatment, such as leeches to the womb, or the application of potassa fusa cum calce, would sometimes suddenly check the vomiting for a period; that this result cannot be depended upon; aad that besides the regular treatment of the uterine affection, that it was necessary to mitigate the patient's sufferings. Even when the patient presented little signs of biliousness, Dr. Tilt advised, as a preliminary measure, a full dose of calomel, followed by alterative doses of blue pill, to be continued for a week or ten days. This wouid sometimes very much diminish the vomiting and nausea; if not, the well-known minor remedies for sickness might be tried in succession. Strychnine was also mentioned as having been useful with some patients ; and various interesting cases were related, showing the utility of a solution of morphine, given in effervescing draughts, and repeated after every fit of vomiting, two grains having been, however, sometimes given without quelling the sickness. Blisters to the pit of the stomach, dressed in the usual way, or with acetate of morphine, were favourably mentioned; and, as a last resource, Dr. Tilt advised an issue to the pit of the stomach, by which means he was able to check vomiting which had lasted incessantly for a year, in a patient who, last winter, was only kept alive by brandy. The issue had been discharging for six months, and still continued to check the sickness, notwithstanding a severe relapse of internal metritis, which had caused this distressing symptom. In another case of chronic inflammation of the womb, vomiting seemed to relieve the still more distressing pains, so Dr. Tilt did not think himself justified in recommending the application of an issue. When nausea was protracted, he urged the necessity of forcing patients to take a few monthfuls of food repeatedly in the course of the day, as in the sickness of pregnancy, and he advised those who suffered from morning sickness to take a little tea, milk, and rum or brandy on wakiag and before getting up.-Lancet.

## materia medica.

## ALUM LOZENGES FOR APHTH A AND PHARYNGO-IARYNGEAL ANGINA.

Instead of the alum gargles prescribed for pharyngo-laryngeal angina, the aphony or dysphony of professional singers, and for aphthæ of the mouth, whatever be their origin, Mr. Argenti exhibits with benefit the following lozenges:

If Aluminis.
Tragacanthce.
Sacchari.
Aque destill, lauro cerasî, each, q. s. for lozenges weighing 7 grs., and containing each about $\frac{1}{2}$ gr. of alum.

The well mixed mass is spread over a sheet of paper, distributed into lozenges, and dried at a mild heat. The result is a lozenge in which the astringent taste of the alum is tempered by the sweetening ingredients, and will keep for months. The lozenge is allowed to melt in the mouth.-Championnière's Journal of Practical Medicine and Surgery.

## THE

## 题ritish ghacrican fonnal.

montreal, marce, 1861.

## THE MORTALITY OF MONTREAL.

The observations made in our last number on the subject of the mortality of the city of Montreal, have elicited from several of our city contemporaries questions as to its probable causo. The subjeet is certainly one of great moment to us, in whaterer light we choose to view it. An infant mortality of about 65 per cont. under 5 years of age, is in reality an alarming circumstance, and should necessitate a strict scrutiny into the causes productive of it. But howerer desirous any one may be of directing his investigations in such a quarter of inquiry, his efforts are inmediately arrested by a want of aceuracy in the official returns of mortality, an inaccuracy which respects as much the nature of the diseases themselves from which death ensued, as the wards of the city in which they actually occurred. And not in fact until the question of our vital statistics is taken up by the Government ns a matter of Provincial legislation, and systematized, as it is done in England, France, and other European kingdoms, will or can the subject become properly clucidated. The laws which govern the health of a whole community should be as thoroughly appreciated as those which govern its individual members in their civil and poilitical relations, and no more important duty can devolvo upon a government than a thorough appreciation of all the causes which tend to impair it. We have little doubt, however, that if the system at present adopted by our City Council were a little more in detail, such for example as the adoption of measures to socure the proper enregistration of the disease, of the age, and of the ward of the city in which the death took place, valuable results would be at once secured; as, while effecting improvements, such a system rould euable our council to disburse its funds with one of the noblest of objects in view, that of diminishing a large mortality by appropriate drainage, sce, in those parts of the town where the necessity for it would become thus, and thus only, unfolded.

In such a vague condition of matters as here exists, no special conclusion as regards ward mortality can be arrived at; but the census of the city and cnvirons having been completed since our last issue, we are enabled to arrive at a general one, which is, that last year the ratio of mortality in this city was to the popu-
lation as 3174 to 101,602 , yielding a death proportion of 1. to every 32.01 inhabi tanta, or a ratio of 3.12 per cent.; and this ratio should suffer a still further diminution, for it is well known, that a considerathe proportion of the decessed from all thes adjoining villages, find their laut and linal resting place in the 1 Frotestant Cemetery of Mount Moyal, a fact which doce not obtain we believe at the Roman Catholic one, the interneents in phish are restricted to the dexeased of the city proper and a portion of its environs, or the Parish proper of Montreal.

Now from our own observations, as well as from calculations made in former years, this shews a very decided and marked improvement in the sanitary condition of this city. In the year 1817 we published in the old series of the British Amcricun Dournol, a praper on the mortality of this city for the year preceding, during a period in which a By-law of the City Council rendered the mortality returns by wards also imperative. It vill be remember. ed that a census of this city was taken in the year 1844, which returned its population as $44,09 \%$ souls. This census was confersedly very imperfictly taker, but allowing for a deficiency in the return, which it is believed really exigted, we do not think we are wrong in estimating the population, two years afterwards in 1846, at 50,000. This year, then, the mortality retarne yielded 21.18 deaths -a ratio of 1 to every 23.50 inhabitants, of a death rate of 4.23 per cent., thus bhewing that during the currency of fourteer years from 1846 to 1860 a reduction in the mortality rate of the city had been effected to the large extent of about 25 per cent. We regrest much that we cannot place our hands upon a valuable manuscript of gur own, which cost us great time and labour, enumerating the births, marriages and deaths in this city since its foundation in 1642, together with the census returns and castimated population at various periods; fout we have a distinct remembrance of the mortality rate of the year $180 \%$, (if we mistake not the year,) which afforded a ratio of about 1 the cyery 19 inhabitints or or 26 per cent., thus shewing a still more marked diminution since that pariod of time. Surely if there is one thing more than another, on which the inkabitants of this highly favoured city have reason to congratulate thenselves, it is on zuch fasta as these. What signifies its importance as the firat commercial city of Britigh America; why pride ourselves on its still rising greatnesss, its rapidly increasing propulation, and its magnificent edifices, if at the same time it exhibits itself as a huge charnel house, in which the very air we breathe tsems with sickness, suffering and death. To a great, a very great extent indeed has the mortality of the city been diminished, still we really can see no reason why in this respect that death rate should not suffer a further reduction, and the city compare mosit favourably in this respect with the most favoured ones of England, France or the United States.

Previous statistics shew that the wards of the city most conspicunns for their mortality were the St. Ann's and St. Mary's wards, the two which approach the nearest to the river level, and to which sufficient attention had not been bestowed in drainage. And we feel perouaded, that if we could arrive at the statistics, or if, for the future, the mortality return were made to arecify the wards in which the deaths took place, we should find these rards sfill enjoringa if such it can be called, their Ead pre-eminexice.

We have by no means exhausted this subject, for it is one pregnant with thought and responsibility; but as our allotted space is axhausted, we will recur to it in our nest issue, as we have not yet met our contemporaries' questions. The subject of Yital Statistics should be made a government measure, and in its details it should be assimilated as much as possible, to that adopted by Dr. Farre, the Registrar General of England. In the mean while it should become a city measure, and we know of nothing in which one of our City Councillors who would take and carry through the Council, an efficient By-law for this purpose, would so well deserve of his fellow citizens. Its importance is above all considerations of a money nature.

## the quarantine at grosse isle.

We are but too happy to hear that this useless establishment is to be discontinued. It has been since its commencement of no real utility to the Province, although it has permitted some parties in connection with it to realize fortunes. The establishment cost $£ 8,000$ per annum, and it is proposed to devote $£ 250$ per annum to the Marine and Emigrant Hospital at Quebee. Why should not some of that fund be bestowed upon the Montreal General Hospital, whose operations continue through the winter as well as the summer? It is stated that the buildings at Grosse Isle will be maintained in case of their being required at any subsequent period. When it is proved that the quarmine establishment has succeeded in preventing the spread of any contagious disease, then, and only then, ought to be considered the propriety of maintaining them. It has been hitherto of no use whatever as a preventive.

## dr. hingston and the corporation of tie city of montreal.

About two years ago, Dr. Hingston of this city, in crossing a canal bridge to visit a patient, was, in consequence of its defectiveness, thrown from his horse, and fractured his clavicle. He brought a suit against the Corporation, and after some litigation and negociation, the damages to him were assessed at $\$ 600$. This sum the Corporation has lately paid over to him, and with great liberality he has appropriated it as follows: $\$ 50$ to the Natural History Society; $\$ 50$ to the. Mechanic's Institute; and the balance to the establishment of a Free Hospital for Children in the management of which he has associated with himself, Dr. Wright, Prof. of Materia Medica, MeGill College. Dr. Hingston's generous efforts to establish a much nceded hospital in our city, deserves the support of every philantropist, and we do most sincerely wish his efforts the most complete success.

THE DAILY BRITISH WHIG.
This Journal in its critique upon our last issue, ventures upon a lesson. It observes that "the contents of the B. A. J. are of too technical a character for us to dilate upon,"-yet it discusses a technicality which we certainly broached, and upon which we are as well informed as the Editor of that Journal can be,
albeit he appears to doubt it. We are aware, and we stated nothing to the contrary, that the License of the Apothecaries' Hall of Jonden is that of the General Practitioner of England, not that of the apothecary as we understand the term here. But we take the liberty of again repeating what we stated in our last number, and what our political contemporary, whose Editor formerly belonged to our ranks, may not like, that the examinations at the time alluded to were not what they ought to have been, but on the contrary a sham (not a "shame" as it was unfortunately crroneously mis-printed) and to this we adhere. The Apothecaries' Hall examinations at that time, were notoriously the lowest of all the "Hall" examinations. But even 'ad Mr. Hoare taken out that license, such as it was, it does not the less absolve him from having lived for many years in wilful violation of an important law of the Province.

NEW SYDENHAM SOCIETY.
Members of the New Sydenham Society are reminded that the subscription is payable on the first of January of each year, in advance. As it is desirable to obtain the works as soon as possible after being issued in England, members are requested to forward their subscriptions to the Local Honorary Secretary, Dr. Fenwick, 70 Craig Strect, Montreal, before the 15th April next. We understand that gentleman has made arrangements with a shipping house in Liverpool to secure the more regular delivery of the works. Subscriptions should be forwarded to him in the form of a post office money order for £1 16. stg., made payable to Jonathan Eutchinson, Esq., at the Finsbury Place Office, London.

## CORONER'S INQUEST AT KINGSTON.

## Singllae Procezdings.

An inquest was held at the Gencral Hospital on Monday 21st. Jan., on adjournment under singular circumstances. On the appointment of Mr. A. Oliver to the vacancy of House Surgeon, Drs. Stewart and Dickson sesigned their honorary offices of surgeons to the Hospital, and Drs. 0 Yater, and Strange were appointed. About Christmas a patient named Thomas Wood, died after the removal of the lower extremity. The operation was performed by Dr. Fowler, assisted by Drs. Strange, II. Yates, and 0. Yates. While the man lay unburied, Dr. Stewart attended a Meeting of Hospital Governorn, and made use of remarks which the attendant Surgeons considered offensive to then, and injurious to the reputation of the Hospital. Consequently some of them next day applied to Dr. Barker, city Coroner, and demanded an inquest. Now, the statuie says that no Inquest shall be held unless the Coroner has reason to suspect crime or culpable regligence. In this case, the Coroner knew of none, and those who abked for the inquest admitted of none. Anxious, however, for the truth, and thinking it wonld be elicited from an impartial witness, the Coroner selected Dr. Bone, Staff Burgeon to the Forces, and requested him to make a post-mortem and report to him. Dr. Bone kindly undertook the task, made the requisite examination, and gave in such a report, as, in the Coroner's opinion, wholly precluded the necessity of any further investigation. This report Dr, Barker forwarded to the Governors of the Hospital, and that ended his part of the business. Not so, Dr. Stewart, who is also a Coroner of the city. He issued his precept and summoned a jury, and two long days were occupied, in the enquiry. We have not been favored with all the evidence, and therefore shall not give part of it, nor shall we allude to the unpleacant scenes which occurred thereat. A very great number of

Witnesses ivere summoned and many of them weere examined. The jury took time to consider their verdict, which was as follows:-
[cory.]
We, the undersigned Jurors, unanimously find that the death of the late Thomas Woods, was not caused by mal-practice on the part of the Surgeons, wìo performed the amputation and that there does not appear to have been any want of proper attention or treatment on the part of the House Surgeon or other officers of the Hospital. We are further of opinion, that there was no necessity for calling this inquest, and we recommend that the whoie of the proceedings be published.
(Signed,)

| S. P. White; Foreman, | R. N. Reynolds, |
| :--- | :--- |
| M. Scott, | James Campbell, |
| Joseph Moore, | Thomas Keys, |
| B. Meadows; | Henry Brown, |
| R. Tompkins, | Sam. Westlake, |
| R. M. Horsey, | G. S. Hobert, |
| William Pillar, | Jas. Watt, |

Kingston, January 21st, 1861.
A sense of daty is the sole catise of the pibove appearing in our pages: We regret that the undignifed proceedings which it records, (if the above report be true, and we have seen no contradiction to it,) should have ocecurred within the imits prescribed for out observation ; but thie fact being as it is, we feel called upon to chronicle it with a few words of commentary, in order to caution sueh of our medical brethren in the Upper Province as have been appointed Coroners, and there are a great many, against the weak and unworthy acts into which they may be led. We see no escape for Dr. Stewart from the charge of being actuated by some improper motive in thus arraigning the conduct and judgment of not less than five of his fellow city practitioners, and in straining his mere adventitious right as a Coroner to an extent, that would in our judgment justify the annulling of his commission. Of what protection is the statute against the holding unnécessary and vexatious inquests when interpreted by individuals, who, holding commissions, permit their feelings to warp their judgment? We are glad, however, that the enquiry, though improperly pressed for, wäs so fully cairried out. "A great number of witnesses were examined; and the jury took time to consider their verdict," the more satisfactory must be the result to the public at large, and to Dr. Stewart in particular.

## INHALATION OF ETHER.

We received the enclosed letter a few days ago by post, and think that the best way of serving the purposes of the committee is to publish it. We are not aware that either Ether or any of its compounds with chloroform have been ever used ii this city for anæsthetic purposes: We have certainly never heard of any deaths from its employment. It is possible that some of our subscribers may be enabled to reply to the questions submitted.

Boston, Massaciniseits, U. S.
The question of the entire immunity from danger which is claimed for Anæsthesia produced by Ether, being still under discussion, the Boston Society for Medical Improve= ment has appointed the undersigned a Committee "to investigate the alleged deaths from the inhalation of Sulphurio ETHER, and to report thereon."

They would therefore request the Medical Profession, or any person into whose hands this may fall, to communicate to either of them such cases, coming within their own observation, as shall serve to this end; giving the place, time and circumstances of their occurrence, with the mode of inhalation adopted, and, especially, information in regard to the following points :-

1st-The kind of Ether ised, whether pure Sulphuric Ether, Chloric Ether, or Ether combined with Chloroform.

2d—The period after inhalation at which death occurred;
also any other facts which may enable them to form an opinion on the subject of their investigations.

Richard M. Hodges; M.D. George Hayward, M.D. Solomon D. Townseind, M.D. Gharles T. Jaceson, M D. J. Baxter Upham, M.D.

February, 1861.

## CASE OF MALPRACTICE.

We quote the following from the Kingston Daily News, of July 25, copied from tho Toronto Globe ; and if Dr. Norris of Fort Erie, or some other physician cognizant of the affair, would kindly furnish us the particulars, we would feel obliged. Malpractice, with regard to midwifery is so common in Canada, that the sooner it is put a stop to the better.
"Some time ago we copied from a western paper a narrative of certain facts connected With the death of a poor Irish woman at Fort Erie, who, it was alleged, had been the victim of malpractice. When seized with the pains of labor she sent for a Dr. Beaman, Who subsequently brought to his assistance, from Buffalo, a man named Dayton. An inquest was held on the bodies of the woman and her infant. The precise nature of the verdict we do not know, but the effect of it was to let the 'doctors' go free, much to the delight of some of the citizens of Buffalo, as attested by cheers and a sleigh procession. We have received from William Norris, Esq., M.D., of Fort Erie, a statement purporting to contain accurate details of the matter. On their correctness or incorrectness we can pronounce no opinion; but if they be true the poor woman and her child have been murdered. We cannot publish Dr. Norris' letter-the statements he makes are too revolting; but he says: 'I am willing to brave any consequences which may follow from the tenor of my evidence, corroborated as it is by Drs. Frazer and Burns, and, as to the principal post mortem examination appearances, by Drs. White and Cronyn, as also by the Coroner, who is an English practitioner of long standing, Who was present during the whole time.' Dr. Norris also says that the County Attorney, Mr. Raymond, does not intend to let the matter rest. The case is one which demands a full and complete investigation, and if the charges made against the 'doctors' are proved, we know of no legal punishment too severe for them."

## MALPRACTICE SUIT.

## Judge's Charge to the Jory.

We copy, below, from the Elmira (N. Y.) Daily Press of Feb. 10th. an interesting charge of the judge in a recent suit for alleged malpractice. We think, if he bad been a surgeon, he might have made still another point in favor of the defendants, namely, that even with a stiff knee the patient's condition after the operation was no worse, if not decidedly better, than before. The whole tone of the charge is sensible and properly appreciative of the true responsibility of surgeons in such cases.

This action was brought by Daniel S. Familton against Drs. Squire, Wey and Smith; for damages alleged to have been sustained by the Plaintifin consequence of a surgical operation performed upon his knee by the defendants. The operation consisted in the removal of a loose or floating cartilage from the knee-joint by means of what is known among surgical writers as the valvular mode of incision. Inflammation of the joint ensued, its disorganization followed, and the ultimate result was a stiff knee; the limb being slightly flexed and bowed laterally, in consequence of destruction of the articular cartilages, and the expanded extremitics of the bones entering into the composition of the joint, on its inner side. Damage was claimed to the amount of $\$ 5,000$. After a protracted trial, the case was submitted to the jury, in the following charge by Judge Campbell. The jury failed to ngree, standing one for plaintiff, and eleven for the defendants.

Gentlemen of the Jery,-Every person who enters a learned profession, whether the law or surgery, undertakes to bring to it the exercise of a reasonable, fair and competent degree of skill.

Invariable success does not attend professional men, any more than those ongaged in other pursuits. Indeed, success must with them sometimes depend on other instrumentalities than mere skill. Courts and juries are fullible and may err, and tho best advice and labor of counsel in the law may be in vain; and habits of life unknown, and hereditary diseases, and neglect of directions, and carelessness of nurses, may defeat the labors of the most skilful surgeon. Both the lawger and surgeon, when they undertake professional business, agree to be responsible for the want of ordinary caresuch care as ordinarily prudent men bestow upon their business. This is the responsibility which the law imposes upon them. But it is said the professional man is also bound to use his best judgment, and that judgment should be an enlightened one. This is true; but in cases where there is great difference of opinion among the most skilful and experienced as to surgery, where the most eminent men in the professiou differ as to the methods of performing operations, the surgeon who possesses the necessary qualifications will not be held responsible for errors of judgment. He will be chargeable with error anly when such error arises from want of reasonable, ordinary skill and diligence, especially if the general character of the operation and treatment has been honest and intelligent.

Making an application of these general principles :-
1st. Was this a proper operation under the circumstances of the case?
2d. Was it proper without the bandage or compression ?*
3d. Was the valvular method a proper one?
4th. Was the place where the cartilage was taken out a proper one?
5th. Was the after-treatment proper?
To all these questions some of the most eminent surgeons in the State, and I may say among the most eminent in the United States, have given you an affirmative answer. Others, on the part of the plaintiff, who may be equally intelligent, but who have not had equal experiencc, answer in the negative. Now in such a case, where there is such difference of opinion, and certainly with the experienced men in the defendant's favor, they should not be held liable for an error of judgment, even if you should be of the opinion that they did err.
The operation being thus, for the purposes of this suit, warrantable, and the method, place and treatment proper, was the operation performed, and the after-treatment continued, with reasonable skill and care-such skill and care as would be required at the hands of prudent, competent surgeons.

Now, the contract of a surgeon is not to warrant a cure, except such contract be expressly made. He contracts to exercise his best skill, care and attention. In this partieular

- Dr. March, Dr. Markoe and Dr. French, the three surgeons who have operated for the removal of loose cartilages, all unite in saying that the operation is warranted without resort to the bandage.
operation, it appears by the evidence of that eminent burgeon, Dr. March, that he had been uniformly successful. But taking the results of operations by oiber surgeons, so far as reported, one fourth are not successful. It would not do, therefore, to hold up the responsibility of every surgeon in the land equal with that of one of the mozt eminent.

As to the manner in which the operation was performed, you have the evidence of the defendants, together with that of Mr. Birchfield. If the delay in the operation was caused by the plaintiff, and therefore the time was protracted, the plaintiff cannot recover for any injury caused by such acts of his own.

As to the care and attention after the operation, as I understand, no complaint was made ; but, on the contrary, the care and attention were constant, and such as might be expected of a kind and careful surgeon.

I have already observed hat, from the evidence, it appears that one fourth of such operations are not successful. The want of success is not necessarily want of akill.

Three fourths of the cases are successful; and if the plaintiff had been among the successful number, if his limb had been entirely restored, he might, like the lame man lealed by the Apostle, have "ran and leaped with joy." That it was not successful, is undoubtedly a great misfortune to him. Whether it was the fault of the defendants, is for you to say by your verdict.

You must take this case, and determine it according to the evidence nnder your oatha.
In the case of Dr. Smith, it is claimed that he had nothing to do with the operation; that he was merely a looker-on, invited by Dr. Squiro, as a smople act of courtesy; and that in point of fact he was not present until the operation was nearly completed, and when the chloroform was sent for. If you believe the evideace of the defendants on this point, of course you should render a verdict in his favor.

Then, if you find that this operation was not performed by Dr. Squire and Dr. Wey with ordinary skill, care and diligence, you should find a verdict for the plaintiff.

On the other hand, if you find that they did perform the operation with ordinary skill and care, and such as would be required of surgeons holding a responsible position in their profession, then your verdict should be in favor of the defendants.-Bozton Med. Jour.

## TORONTO MEDICO-CHIRURGICAL SOCIETY.

The Society held a mecting at the Temperance Hall, on Wednesday 23rd January, 1861 , for the parpose of discussing the constitution. There were present: Drs. Hodder, Wright, Thorburn, Aikin, Lizars, Hall, Ogden, Bull, O'Dea, Lawlor, Agnew, Canniff, Emery, Howson, Augusta, \&c.

Dr. Hodder took the chair. Dr. Bull acted as Secretary. After some discussion, the constitution submitted was adopted with few modifications.

At the first ordinary meeting of the Society held at the Temperance Hall on the evening of the 12th February, the election of Officers for the ensuing year was completed.

The following is a list of the Society's Officers for 1861 :-


When the business of the evening was concluded, the President rose and delivered a very able inaugural address, in which he clearly described the duties and importance of Medical Societies in general, as well as the method by which the present growing one may be made of use both to the profession and the public. After the completion of the address, which was repeatedly and
whrmly apphanded diring its delivery, tho President favoured tho Society with the report of a caso of distocation of the head of the frmur under the areh of the pubes; which, during the offorts at reduction, had been converted into a dislooation into tho foramen ovale, provions to its sucessful replacoment. Tho axceeding great interest of the ease provoked a lively controversy which was maintained during the rest of the ovening.

The sttention of the medical profession is requested to tho following opitome of the rules of the Seviety. As will bo seen it is open to all licentiates of the Prorinee, as well as to these who are engaged in the pursuit of any of the Collateral Sciences.

1. It shall be called tho Toronto Medico-Chirargical Sucety.
2. Its objects are:-'To unito the members of the profession in bonds of friendship; to disouss modical subjeets, and to cultivate medieal literature.
3. It shall hold its meotings on the seeond Thesday of every month. Tho theso meetings strangers will be admitted on being introduced cither by the presson or card of a member.
4. Relates to the list of oftivers alronity given.
5. Relates to the election of emudidates for offiee.
(i. The Socioty shall consist of Ordinary, Monomry, and Corresponding Members.
6. No person shall become an ordinary member unless lieensed to practiso in the Province; or shall havo received a Degreo or Diphora in Medicine, Surgery, Midwifery; or shall bo engaged in the actual pursuit of tho Collateral Sciences.
S. Ordinary, llourary and Corresponding members shall bo proposed and seconded at an ordinary meoting. The election will tako place at the noxt meeting : a majority of one third constituting a successful vote.
7. Relates to the method of business and procedure to be gone through at each meetiug.
8. Auy member wishing to read a paper before tho Society shall previously commmieste his intention, in writing, to the Secretary.

The remaining 13 rules, with the exception of rule 17 , relate to the duties of the Society's Officors, and to the sittings of its members.

Rule 17 above referred to points to the fees payable by each member on admission. The sum of one pound constitutes the ammal subseription of ordinary members in Tloronto. That of ten shillings for each member residing at any distance exceeding three miles.
[Having reocived the foregoing statement of minutes from the Corresponding Seceretary, we give insertion to it with plensuro, and will be happy to record the further progress of the Society. We certainly wish it every succes.-Ed. 13. A. J.]

## BOTANICAL SOCIETY OF CANADA.

15 th Febluary, 1861.
Dr. Fowler, V. P., afterwards the Rev. Principal Lecitch, P. in the chair. About 200 members and visitors were prosent. 31 now members wero admitted.

Mr. Robert Bell, attached to the Geological Surrey of Canada, Mr. McIver, Koussance, and M. Guerin Meneville, Paris, were olected Corresponding members.

Donations to the library were amnounced from Principal Dawson, Montreal, Mr. Burrowes, Law Lecturer, Quecn's College, Prof. Fowler, and Mr. Holmes, Kingston, and Mr. Mead, New York. Yarious donations of seeds were presented, including several novelties from Paris, which will be distributed to members.

Dr. Fife Fowler exlribited npecimens of Materia Medica, including fruit of the eoloeynth phant (Cucmmin coldeynthis), Rhizome of Jastraca Filix-mas, the mata fern ; seceds of Croton 'Jiglium ; upecimenn of Kroan, Veratrum viride, \&o.

From I'rof: Inglis, Prince of Wiales' College, Charlotetown' P. E. Island, thore was a specimen of Hanamelin virginica, a apecies widely dintribated over the Norid Amorican Comtinemt.

Mr. Melver exhibited apecimens of" teraleaves from Kumaon, "from large bushes, each bush containing 5 or (; (or semetimes more) phants, of 2 to 4 fect high, and 2 or :" feet in diameter. We pluck the young or now mprouting leaves, such an are bhown, for making the twa. The large green leaves are left whtouched, as they erumble and break, and camot be rolled or manipmatad. These young leaver are woft and phamt, and can be knculed withoni breaking.

Jrof: Dawen exhibited anew dye of great richnose, resembling cochinesal, prepared from an inket found for the first time layt eummer on a black apruce (Abicanipra, J'gir) near Kinghtom.
'The following papery were read :-

1. On the silk-worm and other filore yielding innecte, and the growth of their food phats in Canada. By Mra. Lawerm.
2. On the Hubbard mquash. By Thoman Brigen jun.
3. What to ohserve in Canalian lichers. By W. Lauder Lindeay, M. D., F.L.S., Hon. Mem.

Specimeng illustrative these papers were coshithited. The paperor will be pubtlished at length in the Society's annals, which will be ready for distribution to nembers in $\Lambda$ pril.

CENSUS OF SOME OF THE DRNCIPAL TOWNS OF UANADA, AND THEIR ReLative momease.

| Montreal, | $\frac{1852}{67,715 .}$ | $\begin{gathered} 1801 . \\ 101,602 . \end{gathered}$ | Increate. <br> .. 42,827 |
| :---: | :---: | :---: | :---: |
| Quebee, | 42,052. | 62,1:3\%. | - 20,03e |
| Otawa, | 7,760. | 14,754. | 6,994 |
| Kingaton;.. | 11,885. | 12,775. | 2,124 |
| London, | 7,025. | 11,581. | 4,546 |
| Taronto,.. | 20,775. | 44,425. | . 12,600 |
| Hamilton, | 14,112 | 18,000. | 3,888 |

At a future period we will extend thin list.
We put the following on record as far as this city is concernal, for futare reference in respect to sanitary comsiderations:-
Special Returns required by Act of I'arliament of Beminariet, Religiona Honesя, \&c., \&c., \&c.,.................................................... 8,520
St. Mary's Ward,.................................................................. 9,205
St. Jumes " ................................................................... 12,298
St. Lewis " ........................................................................... -12,534
Eabt " ....................................................................... 4,881

Wंest "

8t. Antoine " ................................................................. 16,549
St. Ann it ow........................................................................117
01,103

LICENTIATES OF THE MEDIOAL BOARD OF UPPER CANADA.
Continued from the old series of the British Amacrican Journal. Vol. 6, page 516.
Amos McCrea January 11, ..... 1851
Hart Proudfoot January 11, ..... 1851
Charles Gardner January 11, ..... 1851
Robert Gibbing Westropp January 11 ..... 1851
Samuel Miller January 11. ..... 1851
David Dulmadge Wright January 25, ..... 1851
William Henry Evatt. February 15, ..... 1851
Thomas Clark. ..... 1851
William Henry Harrey April 12, ..... 1851
Ezra Foote April 12, ..... 1851
Theodore Hopkins April 12 ..... 1851
Matthew F. Haney ..... April 12, ..... 1851
Alexander R. Stephen A pril 12, ..... 1851
Sames Hacket. April 12 ..... 1851
John Myndman. April 12, ..... 1851
John S. Morrison A pril 19, ..... 1851
Charles Septimus Eastrood, M.D May 24, ..... 1851
William Cameron Chewett, M.D May 31, ..... 1851
John James Mason, M.R.C.S.L June 21, ..... 1851
Achille Beaubien ..... 1851
John Smith, M.R.G.S.L ..... 1851
Humphrey Desmond ..... 1851
Walter Baync Geikie ..... 1851
James Ross ..... 1851
Joshuar Fidier. ..... 1851
Lorenzo Clusson ..... 1851
Alexander Kerr, M.R.C.S.L ..... 1851
John Thomas Small, M.D., M.R.C.S.L ..... 1851
John Young Bown, M.D., M.R.C.S.L. ..... 1851
John Robert McCullough ..... 1851
George Paton ..... 1851
David Tucker, M.B ..... 1851
William Henry Cole, M.B ..... 1851
Joseph Carbert ..... 1852
Robert A. Henry ..... 1852
William Potter ..... 1852
Robert Henry Swyney, M.D ..... 1852
Hickman Rose Daniell ..... 1852
George D. Morton ..... 1853
George Gillespie ..... 1852
Joln B. Lundy ..... 1852
George Duncan ..... 1852
Robert II. Dee ..... 1852
George Couse. ..... 1852
Hotchkins Haynes, M.D ..... 1852
Selim W. Davison ..... 1852
Jeremiah W. Sovereign ..... 1852
David S. Bowlby ..... 1852
Thomas Beatty ..... 1852
James Carrol ..... 1852
James Stephen ..... 1852
John Rosebrugh ..... 1852
John A. Morris ..... 1852
Hartley Samuel Laycock. ..... 1852
Michael Barrett, B.A ..... 1852
Thomas Jerram Orton ..... 1852
Peter Tertius Kimpson, M.R.C.S.L ..... 1853
Augustus Henry Bucke ..... 1853
Orrin Cotton Wood ..... 1853
Joseph Motherside. ..... 1853
John Bristol ..... 1853
Charles James Covernton ..... 1853
Elias Vernon ..... 1853
Walter McKay ..... 1853
John M. Ault. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . April 23, ..... 1853
Norman Baker ..... $18: 3$
John Closson. ..... 1853
Walter Boyd, M.D ..... 1853
William C. Eastwood, M.D. ..... 1853
Charles Frecman, M.D ..... 1853
William B. MacKenzic, M.D ..... 1853
Christopher Leggo ..... 1853
Anson Bucke, M,R.C.S.L ..... 1853
Richard Cowan, M.R.C.S.L ..... 1853
Rovert Carter, M.R.C.S.E. ..... 1853
Egerton Griffin ..... 1853
Jacol Baxter ..... 1853
Thomas Faynes Symes ..... 1853
John Reid ..... 1853
Thomas Ingegard ..... 1853
Pcter Stewart ..... 1853
James Mclaren ..... 1853
Isaiah White. ..... 1853
John (iittens Young, M.R.C.S.L. ..... $18: 53$
Cornelius James Philbrick, F.R.C.S.E ..... 1853
Michael Lavell. ..... 1853
W. C. Van Buskirk ..... 1853
James Rowell ..... 1853
John lightbody ..... 1853
Thomas Glashan, M.R.C.S.E ..... 1853
Henry Turner ..... 1853
Vesey Agmondisham Brown, M.R.C.S.E., late 23d Regt ..... 1853
William Canniff. ..... 1854
Everitt H. Coleman ..... 1854
 ..... 1854
John Wise Considine, M.R.C S.E ..... 1854
James Hunter Robertson, M.D. ..... 1854
Edward B. Haight. ..... 1854
John D. K. Williams ..... 1854
William R. Smith ..... 1854
John K. Graham ..... 1854
Edwy Joseph Ogden ..... 1854
Daniel Cline ${ }^{*}$ ..... 1854
Henry McNaughton ..... 1854
James W. R. Dickson ..... 1854
Augustus James Thibodo, M.A., M.B ..... 1854
William McPherson. ..... 1854
Charles Henry Claudge ..... 1854
Alexander Patullo ..... 1851
Thomas W. Poole ..... 1854
James Kennedy ..... 1854
James W. Chadwick ..... 1854
Charles Tozer ..... 1854
Thomas Benson ..... 1854
Thomas Wheeler ..... 1854
Thomas Cowdry ..... 1854
John Handcock O'Neill ..... 1854
Francis Bull. ..... 1854
Francis McManus Russell, M.D. E., M.R.C.S.E. ..... 1854
Lawrence McLaughlin ..... 1854
John Mair, M.D ..... 1855
William Robert Gilmor, M.B ..... 1855
Alfred Harper ..... 1855
Alexander Burns ..... 1855
Daniel Cline. ..... 1855
Angus McKillar ..... 1855
W. Cowan ..... 1855
David Macintosh ..... 1855

[^1]Robert Christie, M.D.......................................................April 14, ..... 1855
Edward Albert Paget. ..................................................................... 21 , ..... 1855
Edwin Albert Paget April 28, ..... 1855
Aaron Walter Gamble April 28, ..... 1855
Weston L. Horriman, M.D. ..... 1855
John F. Mercer, M.D. ..... 1855
William S. Scott, M.D ..... 1865
Daniel Chamber, M.D ..... 1855
Genus Thompson ©ooper................................................................ ..... 1855
Edward Theodore blown, M.B. ..... June 9 , ..... 1855
Richard Paul Lewis, M.B. ..... 1855
Thomas C. Scholfield ..... 1855 ..... July 7,
Isaac Ryall, M.B. ..... 1855
Robert R. Addison. ..... 1855
Malcolm Ranney ..... 1855
John Salmon, M.B. ..... 1855
William Nurphy ..... 1855

## EDITORLAL SUMMARY.

Poisonous Millinery.-Fvery one has heard of poisonous confectionery, and poisonous wall paper, but few we apprehend have suspected that ladies' dresses may be rendered poisonous. This appears to be fact, however. Erdmann and Zurick have startled the Berlin ladies with the discovery, that some green tarlatans were coloured with arseniate of copper. The colour was merely fixed on with starch paste, so that the least friction sufficed to remove it. Erdmann also speaks of a colouring matter known as cochineal red, which contains a good deal of arsenic in the form of arseniate of alumina. At Berlin, Mr. Zurich was officially appointed to investigate the matter, and he found a good many specimens of green tarlatans which were coloured with the arsenical preparation applied superficially, as described by Erdmann. Certainly the air of a ball-room in which many ef such dresses were rubbed together, would become rather strongly charged with poisonous matter. -Chemical News.

A Colony consumed by Fever. -The news has recently reached England of the out. break of a fierce epidemic of yellow fever on the African coast. Suddenly exploding with terrible intensity amongst a small community of Europeans, it has swept the settlement in which it appeared with the besom of desolation, destroying the whole colony. Of all the Europeans, not one had escaped the disease : only one had escaped death. The surgeons, who remained at their post, were nil devoted to death. The Army and Navy Gazetle furnishes the painful details of the ravages which this disease has thus committed at M'Carthy Island, River Gambia. Amongst the deaths which have to be deplored, are those of Stalf Assistant Surgeon Thomas Clayton Beale, who was attacked on the 19th of July, and died on the 21st; Staff Assistant Surgeon Trestrail, who was taken ill on the 2nd of August, and expired on the 7th ; Staff Assistant Surgeon Charles D. Campbell, who was seized on the 17 th of August, and who sank under the effects of the scourge on the 25th. The only European remaining alive on the island up to the last accounts, which camo down to the 19th September, was Captain Frazer, who had also suffered from a severe attack, but was convalescent. The remittent fever, which is usually so prevalent in the island, had been observable; but no cause can be assigned for the outbreak of the pestilence which had assumed so malignant a form.-Lancet, 3rd November, 1860.

John Hunter.-The Council of the Royal College of Surgeons has caused a beautiful memorial tablet to be placed over the site of the grave of Hunter, whose remains now rest in Westminster Abbey, with the following inscription: "Beneath are deposited the remains of John Hunter. Born at Long Calderwood, Lanarkshire, N. B., on the 14th February, 1728; died in London on the 16th October, 1793. His remains were
removed from the church of St. Martin'g-in-the-fields to this Abbey on the 28th March, 1850. The Royal College of Surgcons of England have placed this tablet over the grave of Hunter to record their admiration of his genius as a gifted interpreter of the Divine power and wisdom at work in the laws of organic life, and their grateful veneration for his services to mankind as the founder of scientific surgery." This inscription is deeply cut in brass, of a Gothic design, inlaid in a slab of polished granite. Mr. Weekes is intrusted with the model of the statue, which is to be of marble, and to be placed in the Hunterian Muşeum - Edd. Medical Journal, Oct., 1860.

Dr. Rigby's Library.-At a late meeting of the Obstetrical Society of London, a letter from the exceutors of the estate of the late Dr. Rigby, announced that that gentleman, in his will, had bequeathed to the Society the whole of his valuable Obstetrical Library, consisting of upwards of 200 volumes, among which were included a complete series of the works of the first Dr. Rigby, and many interesting lectures in M.S.S. taken by the two Rigbys.

## BIRTHS.

In this city on the 81 h February, the wife of Dr. Roberts of a dauglter.
In Carleton Place, on the 12 h instant, the wife of Dr. W. H. Hurd, of a daughter.
In Woodstock, on the 2nd instant, the wife of Dr. William Scott, of a son.
At Lambton Village, Etobicoke, on the 1lth in-tant, the wife of Thomas Beatty, M.D., of a son.

## marriages.

At St. Remi, on the 11th February, by the Rev. J. Gravil, Francois G. Damilton, Esq., N.P., to Marie E. P. Dugas, only daughter of Aimé Dugas, M.J., of St. Remi.

In Toronto, on the 2nd iustant, by the Rev. W. Sanson, John Clarke, Captain, Commanding Depot 100 th Prince of Wales Royal Canadian Regiment, to Hannah Maria, eldest duughter of the late Honorable Christopher Widmer, M.D., M.R.C.S.L.

DEATHS.
In Walpole, on Sunday, February 17th, Esther, wife of Dr. T. S. Harrison, Jun. aged 29.

In Hamilton, on the morning of the 2cth February, Gerald O'Reilly, M.D., aged 53 years, for twenty-six years a leading physician of that city.
In Montreal, on the 16th February, Edith, daughter of W. E. Scott, M.D., Professor of Anatomy, McGill College, aged 3 years and 9 months.
In Philadelphia, on the 4th instant, Thomas Harris, M.D., U. S. Nary, aged 78 years, the oldest medical oflicer of the United States Navy.
At Munich, lately, Dr. Tredeman, the ancient Physiologist, aged 87 yearg.
At Würzburg, lately, M. Textor, M.D., aged 78, formerly Professor of Surgery in the University at that place, and well known from his resection of joints.

At Philadelphia, on tho 2 Ist November last, Major John Lacompte, of the United States corps of Engineers, aged 77. He was celebrated for his contributions to the sciences of Botany and Zoology.

BOOKS, \&c., RECEIVED.
Annual Report of the Normal, Model, Grammar and Common Schools in Upper Canada for the year 1850, with Appendices; by the Chief Superintendent of Education, printed by order of the Legislative Assembly : Quebec, Thompson \& Co., 1860. 8vo. pampl., p. 178.

Lives of Eminent American Physicians and Surgeons of the nineteenth century; edited by Samuel D. Gross, M.D., Professor of Surgery in the Jefferson Medical College of Philadelphia. Philadelphia: Lindsay and Blakiston. Montreal: Dawson \& Sons. Royal, 8vo. price $\$ 3 \cdot 50$.
Taeory and practige of me Movement cere, \&c., by the Swedish system of localized movements ; by Charles Faycte Taylor, M.D., with illustrations. Philadelphia, Lindsay and Blakiston. Montreal : B. Dawson \& Sons, 1861. Royal, 12mo., price $\$ 1 \cdot 00$.

AbSTRACT OF METEOROLOGICAL OBSERVATIONS AT MONTREAL IN FEBRUARY， 1861. By Archibald Hall，M．D．


ABSTRACT OF METEUROLOGICAL OBSERVATIONS AT TORONTO IN FEBRUARY， 1861. Compiled from the Records of the Magnetic Olservatory．

|  | DAILT MEANS OF THE |  |  |  | $\underset{\substack{\text { TIRERMOME }}}{\text { TER. }}$ |  |  | WIND． |  | in main and snow in 24 hours，ending at 6 A．M．next day |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 宝 |  |  | 葛 |  |  |  |  |  |  | 药 | 18 |  |  | GENERAL REMARES． |
|  | Inches． | $\bigcirc$ | 0－100 | 0－10 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  | Inch． | Inch． | Inch． |  |  |
| ， | 29．4623 | 20.50 | 93 | 9 | 33.2 | 5.0 | 22.0 | N． 76 E | 8.09 |  | 7.0 | ． 700 |  | 7th．－Vory stormy day，wind |
| 2 | ． 3722 | 26.85 | ${ }_{\text {day }} 9$ | 10 | 30.4 | 22.7 | 23.0 | N． 52 W. | 11.80 |  |  |  |  | during forenoon 34 and 35 |
| $3$ |  | Sun | day 89 | 10 | 42.4 31.4 | 9.3 12.1 |  | S． 85 W. | 7.19 7.63 |  |  |  |  | miles per h＇ur，heavy snow |
| $\begin{aligned} & 4 \\ & 5 \end{aligned}$ | ． 68638 | 26．83 | 89 87 | 10 | 31.4 30.2 | 25.6 | 23.6 22.0 | S． 59 W. | 7.63 8.19 |  | Inap． | Iuap． .010 |  | and temperature falling rapidly． |
| 6 | ． 2400 | 24．55 | 77 | 9 | 35.0 | 22.8 | 27.0 | N． 88 W. | 16.16 |  | 2.0 | ． 200 |  | 3th．－Day very keen moder－ |
| 7 | ． 5258 | $-7.72$ | 81 | 8 | 9.0 | －9．8 | －16．0 | N． 44 W． | 19.76 |  | 8.0 | ． 800 |  | －ating towards night． |
| 8 | 30.1002 | －5．23 | 90 | 9 | 8.2 | $-20.8$ | － 5.5 | N． 60 W． | 6.39 |  | 0.5 | ． 050 |  | 10th．－From 12 p．m．of 7th |
| 9 | 29.9505 | 18.10 | 89 | 10 | 29.8 | $-2.6$ | 18.0 | N． 70 E ． | 7.62 |  | Inap． | Inap． |  | to 2 p．m．，a difference of |
| 10 | 3950 | Sun | day |  | 43.0 | 16.9 |  | N． 49 EP E． | 3.97 |  |  |  |  | temperature occurred of |
| 112 | ． 2663 | 43.70 | 85 | 10 9 | 49.6 39.0 | 37.6 34.0 | 41.0 24.0 | N． 50 E． | 4．08 | 0.300 | 0.2 | ． 300 |  | $63^{\circ} 8$ in 62 hours，tempera－ |
| 13 | ． 7528 | 30.28 | 86 | 6 | 34.2 | 29.6 | 24.0 | N． 55 W ． | 12.37 |  |  |  |  | ture of day 18.25 above |
| 14 | ． 6620 | 28.85 | 82 | 10 | 32.0 | 25.0 | 20.0 | N． 63 W ． | 20.06 | 0.045 | 1.0 | ． 145 |  | sstormy night，rain freez－ |
| 15 | ． 1075 | 32． 05 | 17 | 10 | 33.4 | 28.2 | 30.0 | S． 76 E． | 10.24 |  | 6.0 | ． 600 |  | $\{$ ing as it fell． |
| 16 | ． 2135 | 31． 27 | 79 | 9 | 34.8 | 31.0 | 25.5 | S． 58 W． | 8.22 |  | 0.3 | ． 030 |  | SolarHalo． |
| 17 |  | Sun | day |  | 32.2 | 25.0 |  | S． 72 W. | 10.78 |  | 0.1 | ． 010 |  |  |
| 18 | ． 5048 | 27.25 | 79 | 10 | 30.2 | 27.0 | 22.5 | S． 76 W． |  |  |  |  |  |  |
| 19 | ． 3987 | 27.50 | 90 | 9 | 32.6 | 19.2 | 25.0 | S． 19 E ． | 9.32 |  | 2.0 | ． 200 |  |  |
| 20 | ． 1625 | 31.40 | 81 | 8 | 36.0 | 27.5 | 27.0 | S． 85 W． | 13.34 |  | 0.5 | ． 050 |  |  |
| 21 | ． 5528 | 23.87 | 70 | 5 | 29.2 | 22.5 | 16.0 | N． 60 W. | 20.17 |  | Inap． | Inap． |  |  |
| 22 | ． 7163 | 21.02 | 85 | 9 | 26.0 | 13.2 | 17.0 | N． 76 E． | 11．13 | ． 430 | 2.0 | ． 200 |  |  |
| 23 | ． 1757 | 29.60 | 85 | 10 | 36.4 | 16.0 | 29.5 | S． 57 W. | 16．43 |  | Inap． | ． 430 |  |  |
| ${ }_{25}^{24}$ |  | ${ }_{29}{ }^{\text {Sun }}$ | day |  | 19.7 | 8.0 |  | N． 59 W. | 14． 57 |  |  |  |  |  |
| 25 26 | ． 7338 | 29．67 | 76 | 1 | 39.2 44.8 | r 27.1 | 34.0 | S．${ }_{\text {N．}} 21$ W． | 12.58 |  |  |  |  |  |
| 27 | ． 8467 | 36.15 | 77 | 4 | 40.5 | 25.4 | 35.0 | N． 77 W． | 5.12 |  |  |  |  | Faint Auroral ligh |
| 28 | ． 6550 | 37.32 | 84 | 10 | 46.0 | 32.8 | 32.0 | N．54，W． | 6.18 | ． 040 |  | 040 |  | int Auroral light． |
| $\cdots$ |  |  | $\cdots$ | $\ldots$ | ．．．．．． | ．．．．．． | －．．．．． | ．．．．．．．．．．．．．． |  |  |  |  |  |  |
| ．．． |  |  | $\cdots$ | $\ldots$ | ， | ． | \％ | ．．．．．．．．．．．．． |  |  |  |  |  |  |
|  |  |  | ．．． | ．．． | ．．．．．． | ．．．．．． |  | 析 |  |  |  |  |  |  |
| S＇s <br> I＇s | 29.5441 | 26.06 | 84 | 8 | 32.37 | 18．54 | 22.46 | N． 77 W ． | $\begin{array}{\|r\|c\|} \hline \ldots \ldots . . \\ \hline 10.58 \\ \hline \end{array}$ |  | 29.7 | 3.785 |  | \％ |


[^0]:    *This fact affords another instance of the error of public opinion, that thundor storaare followed by a decline of the pestilence.

[^1]:    * Daniel Cline is licensed to practice surgery only, as by notification in the Official Gazette of 3d June, 1854.

