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# UPPER CANADA JOURNAL 

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JUNE, 1852.

OMIGNAL COMMONACATLONS.

Avr. VIII.-Observations on the White Globules of the Blood in Diseasc. By James Bovela, M. D., Toronto. (Continued from page 50.)
Catherine -, 4th. The swelling and increased heat and redness, are now well establishod in the joint, and manifest a tendency to spread up the limb; on the inner side, proceeding fiom the maleolus, a red streak, knotted and tense, runs up towads the knee; and she further complains of pain in the grom. There was no tenderness or pain in the abdomen. She was delivered in the night of a still-bom festus-about the 7h month. Fingaged at this time in making observations on the blowd, a few drops were taken on slips of ghass, and examined under the microscope with 1 and dinch glass; from Mr. Sipheer of Canastota, when I was much surprised at finding appearances which had been doscribed ly Mr. Lane so accurately, but of the true import of which I was ignorant, as I could not accept the opinion capressed by that eminent observer, that they were the veritable "pus globules." A ware of the assertion of Mr. Addisom, that the white globule of the blood may be obtained from points locally inllamed, care was titken to draw the blood from the finger of the healthy side. As to remedial measures, she was put under large doses of kmon juice, accompanied by Dover's powder at night, and lotio plambi acet to limb. Fior a few days there was manifest improvement, but this proved fallacious, for the disease again begam to spread, implicating the thigh and glamds of the groin, spreading up the side of abdomen, and lastly affiecting the upper extremity. She now complainct of great pan in the upper patt of the belly, and could only lie comfortably on the back wiht the shoulders raised by pillows. On
examination, the liver was found onlarged, and in the splenic region there was a decided tumefaction, and incredsed pam on prossure. She was ordered a purgative dose of calome l, followed by a sema draught, which acted freely, producing a copiuus discharge of bule, and she was placed under calumel and opium. Withuut unue cessaily prolunging the history of the case, it may be stated that fur sume days she again seemed to be improving, but she was rapudl) losing flesh, becoming anemic and sallow, and ultimately ded on the 2sth August, a mert skeleton of what she was. The glandular system was seriously implicated, as shown by their cnlargement, and the knotted feel of the lymphatics of the leg and axilla. In consequence of my own illness at this time no internal examination of the body was mado.

The second caso was that of the patient Charlotte Nash, of medium height and size, light brown hair, fair skin and marked on the forehead with a blue stain. She had enjoyed good health until two years ago, when she had ague, and was always actively empluyed about the Lying.in Charity, making herself useful. On the 30th of May, she applied at the Dispensary for advice, in consequence of pain in the right elbow accompanied by slight redness and swelling. Her general health being pretty good, she did not wish to take any medicine ; but she was, nevertheless, ordered into a distant room from the last patient, and as she was near her confinement, we were in hopes of geting her into lolgings during the day. She was ordered a purgative dose of phl. hydrarg, pil. rhei, with halfdrachm doses oi liq. potass. and mist. camph., every third hour. She became, however, rapidly worse-the disease takiug on all the characters of erysipelatous arthritis. On the 1st June she was delivered of a male child. After the labour she lost blood, which was arrested by the removal of the placenta and the employment of cold cloths. For a few days, unde: the continued use of liq. potass. and camphor. mixt., she seemed to be on the mend; but on the $9 t h$, all the ncute symptoms returned, and the inflammation spread rapidly up the arm, involving the shoulder joint, and at length spreading over the breast to the mesian line, passing up the neck and spreading over the cleek, engaging, in short, the whole of the right upper-half of the trunk to one-halif the furehead, nose and mouth. Notwithstanding the extent of cutis involved, her spirits seemed better, and her strength certainly was not less than on the previous day; however, dreading the fearful spread of the discase to the other side, I covered the whole of the affected parts wath solution of gun-cotton, applying it as soon as the coating cracked. The effect produced was to pale the surface, and arrest the extension of the inflammation; but in every other stspect, to render her state much more penluus than before, for on the same evening, delirium set in with all the accompanments of the typhoid state marked. She continued gradually getting worse until the 2uth June, when the right mamma becane much calarged, and on the outside of the nipple a garsgrenous spot made ats appearance; other fortons. suon began to manifest similar changes, and on the 20th she ded, one of the must frightul and pitiable beings i had ever sean. This and the last patient were the only ones not examined, althugh the two first taken were the last who fell under the disease.

Remarks - Blood taken from the finger of this patient was repeatedly examined-first on the second day of her thness, and on diferent occisions
afterwards,-when wo found a large preponderance of the white globules at each examination, until the 20h, when it was noticed that the red corpuscles had now undrigone changes abo, as there was scatecely one of them which was not shrivelled in a very extraodumy maner, leading at first to the supposition that thry had burst, but the addaon of a hitle distilled water for a time rendered them purfectly spherical. The annexed diagram will serve to illustrate the appearauce of the blood taken on the secoud day.


CATHzRINE.
The third case is that of Mary Finessey, etat 28, fair complexion, very light hair and cyebrows, strabismus in both eyes, and not abie.to utter a single word without stammeling, nervous temperament, and of high religions feelinge. She was delisered pust as the patuent Nash was taken ill, and had an ordinary labour, everythog having gone on well, and necupping a small wimm by herself. On the fourth day atter her idelivers, she complained of pain over the puties, which was much aggravated on pressure. She stated that it lad cume on durng the mght, and was followed by chills and fever; her pulse was very tapid and wiry, and the checks flushed; bowels had been moved the day before; passed no water for the night ; the catheter was mitroduced, and a pint of darkcoloured highly-scented urine was drawn off. She was ordered orj doses of opium and calomel every hour, and to have het turpentine fomentations to belly. Under ths treament she manfestly improved, and on the 15th June promsed to have a sperdy convalesernce The abdominal tenderness had ceased; the pulse had mproved in strength and was reduced in frequ ncy, and hen general appearance was better, athough she had lost flesh very rapully ; the ume was sull high-roloured, and deposited a large amount of the tuple phosphate. Un the morning of the l6th, she was found to te alarmugly 11 , complanng of pain under the right mamma, and of great dyomiea; the pulse was again 120, sharp but contracted, and the ale of the nose were puched and white; the whole countenance being expressive of depression and sufterng. On applying the stethoscope, no frottement could be heard, but a moist, fine crepitating rale pervaded the whole lung; and the side, on percussion, proved to be decidedly dull as compared with the opposite. With a conviction that the was labouring under the same discast as the two other patients, and from the history of the caso, we resorted a second time to the use of those remedies which had bren found benefiodal a the early part of her ease We therefore returned in the free use of optum and calomel, applied turpentine to the chest, and supported her strengh with beef tea, carb.
ammon. and senege. Sho continued to grow rapidly worse, and died on the 26 th June. On proceeding, six hours after death, to make an examination of the body, we found, on making an opening into the chest, that hoth lungs were implicated : the right lung wery much congested, tongh, and its lower lubes so much deprived of air as to resemble more the feel of the spleen; iss culour was not that of ordinary congretion, being many shades lighter and more of dark stone colour. The left lung was not so much affected, the tubes being more engaged than the substance of the lung; both pleure contained a large quantity of puriform deposit non-adherent, leaving the membrane when washed free of deposit, but under the coumon magnifier showing the surface roughened. On examining the abdomen we found about two pints of yellowish fluid in the carity, and the intestines smeared over irregularly with shells of morgamisable lymph, and which were eavily removed from the surface on which they were deposited. The uterus was very mueb congested, and contained about $20 \%$ of reddish yellow thek fluid; the iiver was remarkably pale, ansily lroken down, and tore with a raggod fracture; it rendered the fingers stickey. The spleen was harge, also pale, but did not appear in structure to the affered. The kidneys were likewise very pale, friable and easily torn; the tubular structure was healthy. Some blood, carefully removed fiom the left ventricle, was, examined, when we found that as, in the other cases, there was a lariop increase of the white glubules, which we have also endeavoured to illustrate by a diagram.


I shall not, on this occasion, give the history of two other cases which occurred in the Charty at the same time, as they would only be repetitions of those already noted, the appearances of the blowd being exacily similar. Nor shall 1 , in thrs number of the "Journal," notice some other cases of thes state of blood uccurring in children and adults, but will only offer a few reflectuons on the facts immediately before us

That the increased presene of the white globules was due to an extensive morbid conditon of the system musi be admitted, although what the peculiar nature of the poison was we are ignorant; whatever it was, it had the effect of interrrupting the further appropriation and development of the white globules, and caused teir parmanent shy in the circulating fluid. Mr. Paget, in his lectures on Inllammation, has oflered some valuable remarks on this pont, and supports his viens by an appeal to facts borrowed from the comparative anatomy as well as pathology "In many frogs," he says, "eupecially in those that are young, or sickly, or ill-fed, the uthe corpuscles are abundant in the blood; they are
rudimental blood-cells, such as may have been formed in the lymph or chyle; and in these cases they are either increasmg mickly in adaptation to quick growth, or increasing because, through disense or defectire mutriment, although their production is not hadered, yet their development into the perfect red bloud-cells camot take place. In either case, their peculiar adhesiveness, making them apt to stick to the walls of the bloodvessels, they may accumulate in a part in which the vessels are injured or the circulation is slow, and thus they may sometumes augment the hindrances to the free muvement of the blood. But I belreve nothing of the . kind happens in other or more healthy trogs, or in any ordinary inflammation in the warm-blooded ammals. I have often examined the human blood in the vessels of inflawed parts after death, and have found no more white corpuscles on them than in those of other parts. In blood dras a from indamed parts during hife, 1 have found only the same proportion of white corpuscles in them as in the bealthy parts of the same person. I therefure cannot but accord with the opimon often expressed by M. Wharton Jones and Dr. Hughes Benuett, that an especial abmodance of white corpmseles, i.e., of rudmental blood-cells, in the vessels of an inflamed part, is neither a constant nor even a frequent occurrence; and I believe, that when such corpuscles are gumerous in an inflamed part, it is only when they are abundant in the mass of the bood. Now, as already stated, they anc thus abundant in some cases of inflammation, esprecially, I think, in thuse occurnag in people that are in weak health, and in the tuberculous."

Art. IX.-On Ulerine Themorrhage By Johis Machelicar, M. D.,
Hamilton, C. W.
The numerous articles which appear from time to time in the various British and Foreign Medical journals on the subject of post partum uterine homorrhare, show that the Ireatment hitherto adopted has not been altogether satisfactory. The frequency of its occuricnee also, and its formidable character, render it of so mueh interest that some practical remarks on the subjeet may not in deemed superiluons. Before the discovery of the powers of secele cormunam, smell doses of the tiecture of opium, with the application of cold and pressues, were the principal, if not the only means depeaded on for the arrest of harmorthage after the removal of the phacenta. Thas was inderel the established praetier, and one which the records of the profession show was not alway sacerssful; cases sometimes occurrmg of hamorrhage fatal at the time, or leading to fatal consequences whan a few days When the ergot was first bruaght into use the older members of the profecsion doubted its efticary, while the younger practuoners availed themselves of its prowers in producing uterine contraction, and reled on th as the imternal meme (almost "x clusively) fot the purpose of arrestugy post partum hemorrhage.

As a specimen of the opinions of the onder practitinnere, I quote from the British Record of May 1 1S4s, a passagr from an article by Mr: Newnham, of Yarnham in Surrey, a well kinwn intoligent and experienced surgeon. He says:-"It is not perhaps rwery case of nerine hemorrhige in which we would recommend the rahibition of opium,
because there may be instances of plethoric constitution, in which the remedy might be useless and even imjurious. But in every case of formidable bleeding the pulse is so rapidly sunk, and exhaustion sets in with such awful haste, and the pulse so soon becomes quich from irritability, and the nervous sysien gets disturbed, and unconquerable restlessness sets in, and the symptums arisumg from the emptiness rather than the fuhess of vessels are so promment, that it is then we expecially need the supporting influence of opum; it is then we shall find it as our main point d'appui, it is then we shall fird it as vur stronghold, eminently worthy of confidence, and that wheh whl carry our patient through danger of the most appalling character."

And speaking of retaned placenta, he says:--" But perhaps pnin is altogether suspended, and the utei us dues nut cuntract upon its contents so as to effect the separation; in this case a dose of opium is the best remedy."

Again-" there may be a great deal of pain, and the uterus may contract a great deal, but does nut expel the placenta, because it is implanted abnormally, or it contracts spasmulically either at its orifice or in its middle, forming hour-glass contraction, and the phacenta may be alsolutely detached, and lyus in ono or other of these cumpartments. Hero a full opiate is to be exhututed, and when its effect may he supposed to have been produced, the hand is to be passed into the uterine cavity."

Here is opium recommended in two opposite states of the uterine parietes, namely passive relanation and activo spasmodic contraction. On the other hand, the ergot is recommended by many practitioners, as the chief remedy in post partum huinurrhage, both with and without retention of the placenta, and tis admuistrativi before delivery has even been extolled as a means of preventing after pains from which some women suffer su much. In these very uppusite recommendations of medicines producing very diferent effects, yut apphed to sunilar cases, there must be some fallacy. The recent recummendations by men of ability of other means, as electricity, filling the womb with cold water in a bladder, intreducing a cloth wet with spiit, \&c., show that our practice is not yet satisfactory; yet the above proposals seem very inapplicable, except perhaps the last of them, from the tume that must be lost in their administration. Having in the earlier years of ny practice followed the mode of treatment recommended by the Professor under whom I studied, which was by opium, cold and pressure, and found it in sume casts anust difficult to arrest hemorrhage ; or, after having arrested it, to prevent its return; and being convinced of the great puwer pussessed by ergot in prolucing uterine contraction, to the absence of wheh the haxmorrhage is usually attributed, I took to its use to the exclusion of opium.

Still many of the cases were sublued wath difficulty, and not until alarming symptoms had supervenel. Jissatisfed with a mule of practice entailing so much ansiety and persevering effort to prevent fatal effects, and having observed that hatmunhage uccurred in two valy opposite states of the uterme system; the one which I would term passive, where a copious and conthuous flow of bluol touk phace withut any pain, the uterus appearing to pussess no dispusition to contract, syncupe and other alarming symptems supervenuy; the wther which might be called aclive, where large gushes of blood occurned at intervals accompanied with severc
pain, arising from irregular spasmolic uteriae contractions ; I determmed to pursue diffirent modes of practice, adapted to the varied condations of the uterus in these well marked classes of cases. In the later class (i.e., where there was severe pain at intes als), I had fuund that ergot produced no effect in arrasting the hemerhaye, but that it mateased the severity of the pains, and that, notwithstanding its uso, the atphuatuon of cold and pressure wero constantly necessary to secure the safety of the pattent. further observed that some of thise cuses were thuse in wheh I had administered it before the birth of the fottus, for the purpose of increasing the force of the uterine contractions, and that although it effected that object, it prevented neither aftor pains nor hæmorrhage.

Being satisfied that the hemouhare aruse from alternate relaxation and irregular spasmodic contraction of the utenus, I tred fuil doses (half a drachin) of tincture of opium, in all cases of pust partum haumorrhage accompanied with pain, applying cold to one hand and arm in severe cases, to moderate the discharge until the opium could tahe effict, and the result was most satisfactory; the hrmorrhage ceasing as soon an the patn abated under the influence of the opium, aceounting fior the praise lestowed on this drug by the oldor practitioners. It was only, howeser, in thuse cases of hemorrhare with pain, that this satisfactury susult vecurred, but as they are by far the most fiequent, the success attending it led no doubt to its general adoption and recommendation.

In the other chass of cas's, those which I have termed passive hamorrhage,-- hat is where pain was absut, and where the flow of blood was continuous,-I found the ergut, pressure, and cold, exeressed the most beneficial effrets, sulduing the hetmurhage much mure speedily and decidedly; while the opium treatucnt s. ened to be permecous, and to aggravate that atonir state of the utens which is the cause of the excessive discharge. Inderd I believe that where opium is uscd under such crecumstances, the rescue of the patient is due to the cold and pressure in spie of the opium, which prolongs the dispusition to hemorrhage. When 1 have been made aware that the patic at has been the subject of such hrmorrhage at a fromer lahour, I have administeted the ergot memedately before or after the expulvion of the fultur, so that its effict nught be obtained in time to moderate the expected gush of bluvd, armong so evidently from the want of a disposition in the uterus to contract upon the placenta, and after its removal.

In one rase, which I esperially remetaber, where I was informed by the forethonght of the physirian whu had purivuly attemed her, that the patient hand nearly perished from unsuspectad accumulation of blood in the utarus, from passiye dilatation, balf an hour afice the buth of the child; I admiaistered a full dose of the agot. Immediately delivery was accomplishod; and athough the gush of blowd (and a frightful one it was, accompaniod and followed the expuision of the plactita, yet it was subdued at once by the influence of the crgot and tumperaty presure; and in a suhserpent parturition of the same paticut, hatmonhage vecurring before delivery, the ripture of membrancs and a dose of ergot subdued it, and none followed the delivery until sercral days had chaseel, when tho effort to sit up in bed brought on profuse dischange, which it requirud the ergot again to suldue; in earh of these occurnences in this patient there was no pain accompanying the hemorrhage.
'I'he same principle holds grood in retention of the placenta, where there arg contractions of the uterus, sensible to the patient by being pamful, and obvous to the practitiner's hand when placed on the abdomen, by the contractuon of the utenus into a firm batl, while the placenta remains in its cavity mstad of desenting into the vagina. These cases are well described in one of the paragraphs 1 have quoted at the beginning of this article. The us of opium will semove these abnormal, spasmodic contractions, and expulsve paims will suon stuceed them. On the other band, where the uterus is pertectly passive, and the phatenta in consequence remans antached, the adnumistratou of the secale curnutum, aided in some cases by friction of the abdominal parietes will produce the necessary contractions, and where partial separation has tahen place and hemorrhage occurs, the same treatment is indicated, and with the introduction of the hand mot the uterus, will be the must effiectual means of rescuing the patem from her perivus condtion, which the use of opium would certainly aggravate. Where adeed the phacent. is retained and there is no pain and no hemorrlage, it is not adsisable to intertere for even three or four hours; but where thete is hemorrthage there can be no safety for the patient until contraction is produced, and the placenta removed:
In illustration of the twe classes of cases into which I would divide Uterime Hamonhage, I give the fulluwing cases, frum my Milwifery Note Book:-

## Class No. 1.-Active Hmmonmage.

1. Mrs P-Hatuorrhage (nut sucre) with pain, sublucul immedintely by 40 drops of tinct. opii.
2. Mrs. S.-Swero uteline hemurrhage, with pains, checked by use of the tunct. upi, and appheation of cold. A large coagulum formed in utero, which passed some hours after.
3. Mrs. Med.-Ergot given belore delivery for sluygish pains. Severe pains after dehvery, acempanied by homorihage, cheeked by cold and pressure, but not subtued unt! tinct. unni $\overline{3}$ ss was administered.
4. Mrs. C.-Ilamorrhase with paims ; stopped by tinct. opii.
5. Mrs. M.-Mamorrhage with pains; stopped by tinct. opii.
6. Mrs. C.-Ergot given to inciease the paims, which were very lamuat. Gushes of hat morhage, aties temural of placenta, subdued by two doses of tinct. opii, 50 and 30 diops.
7. Mrs. H.-Sei cre paita, with sume hamurrhage, reliesed by tinct. opii 3 ss.
s. Mrs. I.-Sevese spasmodic pain after removal of placenta, with gushes ol hamorrhage, Ielieved by tinct. opii Jss.
8. Mrs. (2.-Hemurthaye with pain; artested by tinct. opii, and hand mmersed in cold water.
9. Mrs. T.-Giushes of hemorihug, atconpanied with pain, three hours and a half after defivery, succeeded by syncope: subdued by tinct. opii $\overline{3} s s$, and re-adjustimer the bandere, which had become loose.
10. Mrs. S.-Gushes of hamorrhage, with pain and faintness; arrested by tinct. opii 3ss.
11. Mrs. F.- Eigot givan to stumate the languid uterine contracuons. Placema retumed, and, hamonhuge oct uring after three-quarters of an hour, intuducud the hand, ant lindiag hour-glass contraction,
administered tinct. opii 3ss, and wnited, keeping tho hand in tho vagina, until its effects upon the uterus were perceived by the relaxation of the contraction, when the plarenta was easily reached and removed, it having been separated, but retained in the fundus of the uterus by the hour-glass contraction.
12. Mrs. S.-Severe pain, with gushes of hmorrhage, abated by two doses of tinct. opii ; but the pain returned again, and a large coagulum was expelled, when tho pains subsuded for a time, but she suftered much from after pains, requiring full doses of opiun to afford any relief.
13. Mrs. G.-Gushes of hamorihage, with pain; arrested by tinct. opii 50 and 30 drops, and hand immersed in cold water.
14. Mrs. W.- Severe and obstinate hamorrhage, with pain after placenta was removed : gave tinct. opii, which subdued it almost entirely; but there being severe syncope, and slight trickling of blood after the pains wero relieved, gave ergol.*

I will now give the notes of a few cases of Class No. 2, or Passive Hxmorrhage:-
16. Mrs. S.-Violent hemorrhage, without pain, soon after the removal of the placenta; subduod by pressure over uterus, and hands immersed in cold water.
17. Mrs. M.-Hamorrage before expulsion of foctus; uterus torpid; pains excited by ergot. No hamorrhage after delivery.
18. Mrs.'T.-Hamorrhage, without pain ; arrested by ergot. Patient in advanced stage of phthisis.
19. Mrs. 13.-Hamorrhage nt commencement of trbour ; checked by rupture of membrane and ergot. Hirmorihage recurred some days after, on slight exertion ; subducd by ergot. $\dagger$
20. Mrs. S.-Violent hemorrhage with expulsion of placenta, and continuing afterwards in a stream; no pain Gave ergot; introduced hand unto uterus, with ice; no contraction for several minutes, during which hemorrhage continued; external pressuro and cold, (ice); alarming syucope; no pulse for somo time; gave brandy; kept up external pressure for three hours with hand, under apprelconsion of slightest recurrence of homorrhage; pulse and warmth then relurned. Recovery without any untoward consequences.
21. Mirs. G.-IIrmorrhage, without pain; severe syncope, arrested by ergot ; cold and piessure.
22. Mrs. N.- 'lwin birth. Violent hemonhage after the birth of the first fatus, and also following expulsion of placenta. Gave ergot, and applied cold with pressure ; also introduced hand into uterus; great exhaustion-jactitation and delirium: gave brandy and water, equal parts, repeatedly, but with great dilliculty, arising from the dehrum and

[^0]resistanen of the patient. Patient rallied, and recovered very slowly, fainting taking place fir werk atior, on any modowou to sit up in hed,*

2:3. Mrs. I.-(iush of hamonhage, without pain, following expulsion of placenta ; arrested by creot and presnere.
2.4. Mrs. G.-Feehn pair; whas laweil, after expmsion of fortus, with no disposition to cxpll pheenta: mave remot pheme separated shortly afer, followed by hat morhaw, without pain; slight syocopo; applied con and presure ; ha mondare suldued.
25. Mrs. R.-Freo and constant fow of bool following the extraction of the phacenta; no pain; utems flaceitl. Gave ergot: applied cold and presiurc. Hamornase arrated, with only slipht syneope.

These instances ocrurrel in 150 cases, extendinge over a period of two years and three months, and will therelore aid in showing the comparative frecuency of cases of hamornare atter delivery, as well as to illustrate tho principle of treatment which I have advocated.

## Art. X.-Cases of General Dropsy treated by Saline Cathartics and Diuretics administered alternately. By A. O. Kelinsg, Esq., M.D., Mariposa, C. W.

As sequele of the remittent and intermittent fevers incident to certain localities in this country, there are no disenses we encounter more frequently than general anasiarca and ascites.
'These periodic diseases, when noglected, or hadly treated, are prone to leave behind them, as is well known, certain lesions, or obstructions of the liver and spleen, which impede the circulation of the vena porta, and hence we have dropsies as a natural conseruence of venous obstructions. In many cases the evidences of ohstruction of the abdowinal circulation havo preceded the dropiscal eflasion tor a lones period. There has been pain or tenderness of the right hypochondrium, pain of the right shoulder, jaundice; the stools hare been clay-coloured, the urine seanty and high coloured, depositing tho lithic acid sediment, and perhaps varicoso veins may be seen ramifying upon the aldomen.

Among the first indicatens of treatment in these cases, is the establishment of an active drain upon the portal circulation, thas unloading the congested condition of the orrans to which it coniributes its blood, and assisting to place them in a betler condition to resume the performanco of their healthy functions.

To accomplish this indication $I$ have found nothing to answer so well as a judicious combination of vegetable and saine cathartics, alternated with diuretics and stimulants, particulanly when the patient has been much debilitated by the persistence of the disease. But to accomplish anything by theso means, the treatment must be thoroughly active. For a long time the debility spoken of deterred me fiom administering cathartic medicines as actively as they will be borne. But experience, and the result of a fortunate accident, to be related presently, have convinced me

[^1]that theso foars were im.urinary, and that patients who have not bonn able to turn themselves in bed for weths whonat assistanee, will not only bear them well, hat expen mee geat reheif posided they are admaistered,

 discombinued for a number of days, gin ing diurencs and stmolats, to heop, the eflision at lay and sustain the powe os of the panent, untel you can resume their administration. I subjuin the following cases:-

Case 1.-In the spring of 1817 I was requested to visit George McCormick, an old soldier and prisioner, resuling in this 'Townshup, agen' about 50 , who, as I was infurmed, had been given over to die of general dropsy.

On my arrival I found hin suffring from tho most extensive and complete amasarcal hadever seca. The skin of the lombs and of the solt parts covering the thorax, meck, face, and scrotum, were enormously distended and pited deeply; the abdomen was also much distended and fluctuating. He had not worn his clothes for several months, and was only able to move in bed by the help of his family:

The pulse was matatal, wine stanty and hagh colbured, twague clean, appetite toletalle, thabo he cuad eat mone were it not for the distressing distension which follows taking frod.

Tho situation of hi, hesiduce wos low, and he hat had agne or somo form of tilious distase the presiuns fall, fium whin he had never thoroughly recosered, dropsy supet rening ad proceuding gradually, until it had reached it, presemt state. He had tahen carhartic medicines at various times, with temporary relief.

$$
\text { R. pulv. jalapi comp. } \underset{\substack{\text { Siss. } \\ \text { St. sum }}}{\text { sum }}
$$

To be fullowed in an hour with haif a teacuptul of stoong senna tea, holding as much Eprom sato in solution as it would tahe up, (buth of which melicines thy had in the hume, the same to be repeated every hour until free catharsis follow od and hage houd esacuations were obtamat.

I had given his wife (a Hightand woman who understood but littlo English,) directions tor the mahimg the imitusion of scmat, and supposed she understoon me; but foum noi compechendiur me, wi from thinking that if a little wouhd do good, a gatat da al woudd do more, she made up nearly a quart of stroum nemut tex, adhat all the saths she had, a paper containing I should judge five or six ounces, and gave him the whole during the two or three hous following the daminatiathen of the ponder.

The effect of this can casi! be culleund. Shorly, a must tremendous catharsis cosuel, and contanu if for several hours, duang which time he passed imatense ymatiths of fluad-bute than a commun water pail full, if I could believe the statements of all parties.

I had left a diuretic mixture with directions to tahe it at stated intervals during tho day, commencing after the operation of the cathartictogother with gin and water to aid its diuretic operation, and also, to act as a stimulant, to relieve the debility which I supposed would follow the operation of an ordinary cathartic.

At my noxt visit, five or six days subsequently, the change in his appearance was both surprising and gratifying. The circumference of
his boly was soveral inches less than boforo taking the medicine; his skin, from being so distended by the fluid as to appear ready to give way, was loose and flabby, hanging about him, as Falstafl would say, " like an old lady's loose gown." He could hande himself much better, turn himsolf in bed, raise himself up, without the fear of "bursting open," as he said. His appetito was better, and ho could tako more food, without the feeling of distension which troubled him so much before. Ho also expressed himself as feeling much stronger, and "ready to return to the charge again, whenever the word was given."

I left him another comp. jalap powder, with directions to follow it, as before, with the sema mixture, (though not in such quantitios,) and to havo, after its operation,-

> B. Pot. Bitart 3iss.
> Sp. ather nit 3iii.
> Tr. digitalis 3i.
> So. api.. m xx..
> Inf. junip. 3xii m
> Cap. coch. 1 larg $2 o$ da quaque hora.

I also nllowed a moderato quantity of gin, which, as a medicine, was hy no means disagrecable to him.

At my next visit I found him still better. He was sitting up, with his clothes on, for the first time in several months. His medicines had operated favourably. The cathartic had produced a number of tluid discharges : the diuretic had also acted favvurably, and be had passed much more urine than usual. The same treatment, modified to suit his altered condition, was pursued for two or three weeks, and he recovered completely, and was able to go about his usual occupation.

Case 2.-Dec. 20th, 1848, I was requested to visit Mrs. Leek, of Darlington, aged about 48, suffering from ascites, and anasarca of the lower extremities. She had always had good health until early in the preceding fall, when she had an attack of epilemic dysentery, which left her in a state of extreme prostration. On recovery from this, hor lower limbs began to swell and fill, and continued so, until they wero so large that she could scarcely move them, or turn herself in bed, without assistance. The abdomen then began to enlarge, and became much distended. The physician in attendance, fearing, I suppose, to resort to an active cathartic treatment considering the former attack of dysentery, had tried diuretics in nearly all forms, without sensibly diminishing the enlargement of the limbs or abdomen. Her pulse was natural, and of moderate firmness, tongue clean, urine scanty and high coloured, appetite capricious, though the feeling of distention which follows eating prevents her from taking as much as hor appetito craves.

Remembering the result of McCormick's case, and as the dysentery

[^2]thad long sineo subsidoil, and there af eared nothang to contraindicate, I determined to adopt a modification of the same treatment, and ordered-
\[

$$
\begin{aligned}
& \text { Rx.-pulv. Jalapi Comp. Siss. St. sum } \\
& \text { Hora post quam seq. et. rep. } \\
& \text { Inf semme comp. } 3 \mathrm{z} \text {. } \\
& \text { Mag. sulph. } \mathrm{sin}^{\text {ii }} \mathrm{m} \text {. }
\end{aligned}
$$
\]

Tho above acted fa:ourally, bringing away large fluid evacuations, without marked irritation of the intestinal mucous membrane. I then resorted to the administration of diur tics, as in the case of MeCormick, together with siverai glasses of govel purt wane durng the day, thonking, by this means, to support the strength, and also to keep the effusion at bay until I could resume the cathartics.

I saw her again ou the Ist of Jamury, 1849. The swelling of the legs had subsided considerably : they were softer. She expressed herself as feeling better, and stronger; appetite better; can take more food. Circumference of the body not sensibly diministed.

To continue treatment, repeating the cathartics every third or fourth day, with diuretics and stimulants in the intervals. 'To take nourishing broths.-I saw her again on the 20th. She had taken the medicines, as directed, with great reliof. The change in her appearance was very marked : the swelling of the lumbs hat nearly subsuded-that of tho abdomen was much less She informed me, wh much apparent glec, that she was able to walk to the stuve, by the and of a chan, and place her feet on the hearth without assistance. She also, she said, rose and took her meals regularly with the famly. Appette good. She continued to improve under the treatatent, and for two years has been in the enjoyment of excellent healh.

I could furnish reports of several cases similar to the above, which have since occurred in my practice, when the treatment has been smilar, and the result satisfactory, were it aecessary. In the treatment of passive dropsies, where the first ubject is to net rid of the preternatural aceumulation of watery fhid, and where cathattes ase madcated, I am convincel that the administration of this class of :emedes, in the manner pointed out above, will be fuund mure cilectual, satsfactory, and safo, than a resort to the more powerful Liddragugues, as elatenum, Croton oll, \&e.

## Risvicu.

Preliminary Report on the Observations of the Aurora Borealis, made by the N. C. Officers of the Royal Artillery, at the various Guard-Rooms in Canada. By Captain Lefroy, R A., FR.S. March, 1350.
Second Report on Observations of the Aurora Borealis, 1S50-51. By Captain Lefioy, R.A., F.R.S. Torunto, 1852.
These are two interesting documents; unpretending in appearance and extent, thry contain information of the most curoous and important character. The opportunities and facilities enjoyed by Captain Lefroy
for tho study of Metcorological phenomena, the nafural enthusiasm with which he has embraced this particutar depariment of seientific invenigation, and the admirable manner in which the praclical working of the necessary experimental observations is combuted umber his direction, are the subject of remark with every one who has the pleasure of visiting the Observatory. But it is not alone with the advantages which he possesses, and with the success of his management of them, that he is content. Every subject of inguiry comnected with his peculiar duties, and which bears in any degree upon the evolution of magnetical laws, becomes in turn the object of careld inguiry in all its minntest details; hence the origin of the Reports beforo us. Four years ag, he surgested that the Non-commissioned Olficers of tho Royal Aitillery should be permitted, under the sanction of the Offerers in command, to make observations on the durora Borealis, at the seremal stations throughout the Provizce. These observations woth apmer as have been also undertaken aml maintained with great spirit by the Omicers of the Kludson's Isay Company. 'The results of these ofoonations; as far as they go, are given in tabular form, and the stanstics appar to have been collated for this purpose with the greatest care and industry. The principal objects in view in hecpirm these registurs are thas stated in the first report:-
" 1 .-To ensure the olservation of evecy Amom which should bo visible in Comeda, so as to affond a inther criterion of the actual frequency of the phenomenon than can be given by obervations at any one station.
"2.-To supply the means of judging how far variations of the magnetical elements, shown by the instrunents at Toronto, durimg clouly weather, might he connected with Aurora visible elsewhere.
"3.-To furnish data for compuing the height or distance of the Juminous region from the carth.
"- L-Lastly, to throw some light on the questiom, whether or no the same Aurora is not sometimes seen under considerably diferent foms by observers stationed not very fer asunder."

It will at ence he perceived that the wreat end of these ohservations is to investigate the relation between the suroral and magnetic phenomena. The restits obtained are singular and instructive; but whether they will be sufficient to clucidate the trate nature of those wonderful and beautiful manifestations of glory remains yet to be proved. Enough, however, has apparently been ascertained to show that certain laws govern these phenomena, and that we may in the course of time bo able to arrivo at a tolerably accurate acquaintance with them. What would senm to be established as yet is as follows:-
"That the Aurora Borcalis does not appear with oqual frequency at
all the hours of durkoss, but is subject, the most other phenomena in metconogy, to inthences hatime a diurnal period as well as an amual one. 'the how of maximum frequency, given by the first report, 10 or 11, des. The Aus,at appers in Catadh in every month of the year. The gratest mande of whar ration.s is in April, ated there is a very marked exeess in Felruary, Manch, and April of each year over any other perionl."
"It has been often stated varucly that the Auroratapars every clear night. 'This is certandy nut tree of any one station, as far as the earlier houms ate conconel, we are still shent of prout that it is true in the widest meaning."
"It is remakable that in tooth cases the phenomenon was first seen, in absulate that, at the most coshon statums, mutwithandiag the earlier comanncement of dariness at the exireme north, where the difference of latitude in some cases more than compensates for the difference of longiude ; it wouldapear from this that the durora does not commonly appear at a station upun any meridan unth that mendian generally is indarhness; resulh which, if establishad by the whole budy of ovidence, will be both now and interesting."
"The stations may bo arranged in three groups. The first comprizing all those which are from 500 to 1000 geographical miles distant irom the Magnetic Polo; the second, those which are from 1200 to 1500 miles distant ; and the thidd, those inchoding the great majority of stations in the Cuted States, wheh are from 1600 to 2000 miles distant, from the same point."

Captain Lafroy's cadmatution of the several facts conained in the varivus sumets of iufumativa in his pose sion, have induced him to colablish the followins simele and indenious divisin of stanons into circles for the iecord of observations:-
"It iesults fou the compaism of the six winter mouths, October to March inclusise, l-iu-1; that Aurota wa sen h blore midhight within the first circle on Es.) per cent. of practicalle hinhts, in the secund circle on so per cent, and in the third on only dit per cent., indicating a rapid falling off of the causes producing it at distances excecding lovo miles from the Magnetic Polk"

With reference to the whole result of these analyses of records our author says:-
"It is scarcely necessary to say that theso simple numerical comparisons are bat the first fruits of the observations; such as they are, huwever, they sugerst to the mumd a spuctacle wheh, if true in mature, must be of wudetul magnfiecnee. The Polar light kindiong on cach

 and paling its fires, for a period of days of wechs, and sometimes spreading downwards over tho glote, whe an intensity of which our highest cunceptions are probably nost madenpate, suce, if the region of the dispay is as elorated is as usually suppused, abvent a thid of its light must be absorbed by the atmosphero."
"With respect to the influence of these displays upon the movements of the magnetical elemenis registered by Photography at Toronto, I may say that if furd the symbols which represent, in tho abstract, 'total absence of disturbance,' 'moderate disturbance,' 'considerable disturbance,' and so on, against almost every variety of observation, and am not yet prepared to gise any setlled opinum on the subject."

Our space prevents us from enteling into the consideration of the question in its fullest extent, although rendered so captivating by the matter before us. Our purpose will have been attained if we attract attention to the subject, and induco whers to chter a field so full of tho most enticing topics of oxamination. On this point alsu we prefer to let the author speak for himself:-
"And if each observer will bear in mind that others, hundreds, and some of them thousands of miles off, are noting down the features of the very displays he may be looking at, as it appears to them, and that from a comparison of all these accounts, it is hoped to arrive at definite views concerning this most singular phenrmenon, he cannot fail to see the value which every clear, distinct, and definite record of facts and particulars will possess, and to acquire a greater interest in tho subject than the constant repetition of familiar descriptions might otherwise afford."

The following instructions will be found highly valuable to those who desire to continue the subject and to assist in the woik of observa-tion:-
"Private observers should make a regular practice of looking for Auroras, every clear evening, from dusk to as late an hour as may be cenvenient, recording the result whether there has been an Aurora or not, together with the tums of olservation. The notes may be short, but they should be clear and precise. Wet or cloudy orenings should be noted.
"Auroral Phenomena may be di ided into the fullowing classes:
(1.) A faint light in the north without definite form or boumdary.
(2.) "A diffused light, defined by an arch below."
(3) Arches resemblitg the rambuw a stas and form, but of a uniform white coulur, sumetimas uthiniag this apparent position for a considerable time without change.
(4.) "A dark segment under the arch;" if any star can be distinguished within this space, the circumstance should be particularly noted.
(5.) "Floating patches of luminous haze or cloud."
(0.) Beams, rays, sticamers, transverse and serpentine bands, sometimes tinged with colour, and undergoing more or less rapud changes. It may be necessany to in fate hic loat two capressions -Transverse bands are freyuently wothing mure than athes which bave ulvanced nearly to the zenith, or, prrhaps, hato passed it, and rotain their regularity of form, although now projected nearly as straight lines. Serpentue bauds mather resemble curtains of light, and undergo an then outhe chames the those of the folds of a curtain, they are usually the mosi brilliant part of a display.
(7.) "Auroral Corona, or a union of beams a few degrees to the south of the zenith."
(9.) "A sudden apperarane" of dach clouds" in the region recently occupied by the Aurort.
(9) "Suciden apparatuce of haze over the whole face of the sky."
(10.) Lastly, a disposition in hight cluads at a groot elevation, to arrange themselves during daylight, in parallel lines, crossing the meridian at right angles, has been frequently suspectet to be connected with the Aurora, or with a common suarce.
"The observer should state in plain and definite language the general charactur of the Aurusi, with efenctue mose particularly to the foregong characterintics. At Cabadian Stativas enery obsendation of the azinuths of the extremities of an arch, when they are well defined, its span along the horizon, its height above it, or its place among the stars, will he witable lur compatisum. At all statums the tume at wheh the light passes to the suath of the $z^{-m b t h}$ should if possible be stated, as well as the precise tianes of sery bollidut or actise dispays, wach frequently Inst but a fow minutes. Lashy, it should be noted how much beyond the zemih, to the sumb, the bands of tusht dencend. The dearee of brilhancy may be denuted by the terms-Fant, Mudetate, Hright, Very Bright."

## The proyress of Comparative Anatomy, Mr. Owex's Labours.

The deep and extensive insight which iwenty years of assiduous anatunical research placed at the command of Cumer, when he directed his view to the zoological relations and affinities of the subjects of his dexteruus sualpel, phated him in a prositun to supersde the Linncan, and iudeed, all previous classifuations of anmais, by hat wholi he finally and fully deseloped in the Riyne Animal (151:). Mohlications of the Cuvierian system, of grater ur less extent, have Lecaprupused by De Blanville, Oker, and sume of minor note, but these ianomativis, leing unsupported by tho mequisite aduitional facts hom conararative atatomy, hase fated to obtain the sanction of other naturahsts, and hate had no miluence on the arrase nent in the final edition of the " $A$ nimal Kingdom" by Cuvier ( 1829 ), in which the chasstication remans essentally the same as in the first; its principles are those on which almost all our elementary treatises on zoology have been based since 1830. Cuvier, however, although he kuew nuch more than any of his contemporaries of the stucture of animals, could do nu none than the best hen cha du in the innsetigation of a field so diversifisd, athe of such vast catent. And as, in lis scheme, the Ammal Kinglum was distributed according to his own hnowledge of th organezation, every accession to that know ledge might involve some corresponding modifiration in the distribution of anituals Gencral propositions on tho
distribution of animals, based on their amatomy, are among the last and highest acquisitions of Zuological Science; and perhaps no better test could be had of the extent to which a successor of Cuvier may have carried his researches than the degree of modification which ho has found himself authorized to propose in the outline of his great predecessor.

The first of these tuuches the primary division of the Class Mammalia Cuvier adopted the ternary distabution of the mammals by our country man Ray, and by Liunaus, arcordng to the structure of the locomotive eatremities, viz, into thoso with nails or claws (Truguculata), those with bouls (Uugulata), and those withuat either, and in which also the hinder lambs are wantung (Mhuticu of Lamizus, Cetucea of Cusier).

With regard 10 the pouched quadrupeds, Cuvier, in placing them in a special order which he calls Marsupialia, between the C'arnirora and Rodentia, speahs of them as formatis, with the regular serics of C'nguiculata, a small collateral series, the different genera of which are connected together by the aggregate of their organization, although in their teeth and in the nature of their regimen, some correspond to the Carnivora, others to the Rodentia, and others again to the Ede"tuta. (Regne Anim., i. S0.] M. de Blainville expanded the idea, and proposed to raise the marsupials, which he calls "Didelphes," to the rank of a subclass, including therein the Echidna and Ornithorhynchus, but with the remark "On devra peut-être faire des Echidnes, etc., une sousclasse distincte." * The propesed imovation was not based on any new facts discovered in the anatomy of the marsupial or monotrematous animals. Accordingly, it not only failed to gain acceptance, but the idea of the mutual affuity of the marsupials, to the estent to which it had been originally entertained by Cuvier, began to suffer modification in the mind of the originator. Thus, in the th volume of the second edition of his great work on the "Ossemens Fossiles,"-(1823, p. 258)-we find him proposing to extend the bounds of the Insectivorous tribe of Mammals, as previously defined by him, by the:dddition of the Insectivorons Marsupialia, "for we cannot," Cuvier says, "separate from the shrews, tenrecs, \&c., the Opossums, Dasyures, and Perameles, which are allied to the fisectivora by chavacters as numerous and mportant as those which have induced us to unite them with the other Marsupiatia." His brother, Frederic Cuvier-(Dents des Mammiferes, p. xui.)-expresses himself more stongly and with more detail to the same effect. These opinions were met neither by comment nor counterstatement from De Blainville; and they served to encuurage other maturalists to modify the system of

[^3]the " Règno Animal" more directly in aceordance with what seemed to be the later views of its author. For example, let us quote Mr. Bennett, the lamented Secretary of our own Zoological Society:-
"The further we advance in our knowledge of Marsupial animals, the mose firmly do we become convinced of the impropricty of their separation as a distinut and isulate dgruap. When we see that the single peceliarity that unites them is bestuwed upon types of form su wadely different from each other, we cannot ec nsider this simple metastasis of runction in a certain set of organs alone, however e cat the importance of that function in the animal economy, as furnishing sufficient ground for the overthrow of every principle of chassication, and for setung at naught snme of the moit stromgly-marked afthities that the ammal lingdom aflords. How striking, for instance, is the passage from the Insectivorous Carnivora, through the Opossums and Dasjuri to the Cirets and other mure purely catuinuruws groups! What is there of mportance in the strurture of thr Wumbat, eanept this sohtary character of the Marsupium, to separate it from the Rodent Order? And what other character can be found to justify, even in appearance, the union of any of the ammals just named with the Kangaroos?"-(Gardens and Menagerie, sc., 1831, p. 265. )

To the solution of these questons Mr. Owen resolutely bent himself. Ile seized every opportunity of dissecting specimens of the marsupial animals which the vivarium in the Regent's Park or other sources afforded. Patiently did he compare their structure, organ by organ, with that of the non-marsupial quadrupeds to which they generally bore the nearest outward resemblance-and he had his reward in the discovery of a wellmarked distinction in the stucture of the brain of the marsupial animals, the absence, viz., of the great commissue or apparatus for uniting the two hemispheres, above the ventricles, which, with other characteristics, is detailed with the requisite Illusuations in the Philosophical Transactions for 1837. In that Memoir the hrain of a Rodent is expressly selected to comrast with that of the Wombat. Pursuing his comparisons in regard to the Ossrous system, he there also detected many characters besides the marsupial bones, which were common to the Mlursupiatia, and by which they difiered from their nearly non-marsupial analogues. The flattening and inflection of the angle of the lower jaw was, for example, found to he mat merely a peenliarity of the Opossums, tat a feature in all the mersupial animnts; in the whole of which, moreover. the number of true certebrep was shown to be the same-whatever might be the number of ribs.

Exprriments were lüsewise institatud on the liveng Marsunala, with regari more especially to their mode of generation, a stbject left in a very ancertain and problematical stately Cuvicn Noting was known as to the precise period of uterine gestation in any species, nothing as to
the nature of the comexion, if any, letwetn the futus and womb, nor the exact part of the "uterus anfractuosus" m which the embryo was developed:-nothing as to the nature of the fotnl membranes or append-ages:-nothing as to the mole or period of transfer of the new-born young to the pouch; little as to the time of its continuance there and its adhesion to the mpple. In the cuurse of Mr. Onen's observations he discovered that in the great kangaroo (Macrupus major) the periud of uterine gestation was 38 days, and that the new-born animal was but an inch in length, naked, blind, with the hind legs shorter than the fore-legs, and the tail not longer ; a creatute, in a word, whose parentage could never have been staspected, if it had not bech weertained ex cisa. Fre perceived further, that the mother transters her delicate and minute progeny by means of her lips to the niphe concealed within the pouch; to this nipple the prematurely born instinctively adheres, breathing freely, and clinging fast by its fore-limbs; and there it hangs for a period of six months; after which it uses the pouch as a place of shelter, and returns to suck occastomally for two or three monalis longer. Lastly, the fotus was found to be developed, not in the "anfiactuous canals," lut in the part of the uterus which Home had described as the vitellme part of the Fallopian tube: its membrames consisted of a chorion, al large umbilical sac, and a small allantuis, but there was no trace of plarenta.
$A$ summary of all has labours on the masupial and monutrematous animals was finally commumeated to the Cyclopadia of Anatomy and Physiology, vol. iii. In this masterly article be shows, from anatomical and physiological researches, abumlant reasnns for their association together, and for the separation of the associatel group, as a distinct sub-class, fiom the rest of the Mammalia.

## Ciorrespenùmes.

## To the Members of the Mredical Profession.

Gentienex,--I have readwith pleasure a leter from the Hon.C. Widmer, calling on his Medical brethren to attend a meeting in Toronto, for the purpose of promoting their attainment of the high position in which the profession stands in all other countres under Brash dominion.

To this end I humbly conceive it will, as a matter of course, be necessary to rid it of the charlatanism (too long tolerated) which exists in some of its branches, and I hope it will be permitted mo to ask the gentiemen forming sa important a body, whether it is not competent for them to take upon themselves the protection of the community against the offensive quackery thai prevaiis in Dentistry, to which humble branch
of the prufession I have had the henour of belunging for thirty years-an experience 1 hopo sufficient to justify my taking upon myself to suggest (in the absence of any law ou the subject) a form that might be adopted by the Medical Boand, which would at once protect the public, and raise the practitioners to a rauk that would entitle them to the appellation of professional men:-

First-The cunduct of a practitioner should be proved to be such as will entitle him tu rank as a gimleman, not hating offended the laws of his country, nor sacrificed his honour and dignity as a citizen.

Secondix-He should show by his indentures that he has served a proper apprenticeship with some comprtent pactitioner, in any country under the British Crown; or if fivm the Umted States, should have a diploma from the Cullere of Surgoon Deatists in whatevar State he may have studied; in eithre instance, proving also by allidavit that he is the person thercin named.

Tmardey - He should be submitted to such a Medical examination as will ensure that he possesses a thorough knowledge of the anntomy and physiulugy of the human head, fice, and parts adjacent (if any line of demarcation can be given). Ie should alsu certainly have a knowledge of Chemistry, at last sufficient to ewablo him to piescribe in the many complicated cases appetaining to the deratigement of the dental urgans.

If these rules, which are now in force on the Continent of Europe, wero adopted by the Medical Board here, I feel persuaded it would be received as a great boon by all persons practising the Dental art; that is to say, by thoso who are competent, and they who ane not, should be classed in the same categury with thusi excrescences un the Medical profession, of which the carliest cutting away is the most healthy for the body encumbered with them; and when medical men consider that perfect mastication is the primary cause of gool digestion, they will, $I$ am sure, see the propriety of my callang thrit attentom to the subpect, and at once agree with me that sume such luws ane urgenty requisite.

With respect to the objection sometimes iaised that Dentistry, being partly mechanical, is not a legitimate subject for the supervision of the medical body, I will oaly say, I camoi beliese it could possibly be so regarded by the prute, ion generally. Many of the highest medical authorities have incessantly impressed on their pupils, both in the lectureroom and on all avalable oceasions, that no one cond be an efficient surgeon without a practical kaowledge of mechanics ; and one cmininent man in partienhar, Sir B. njamin Brodie, under whom I studied for a short time, at St Geors ''s Hospital, us'd constantly to make his own splints, frequently remarking that no one could thake them to please hmm so well as himselif.

I earnestly hope that the subject will gain some attention from the proposed meeting.

> I am, sir, your most obedicnt servant,
'Toronto, 14th June, 1852.

J. B. Jones.

## 'TORONTO, JUNE 15, 1S5̈.

## THE IMPUDENCE OF QUACEERY.

The following letter appeared in the pages of a city contemporary, and is interesting in many points of view. We should have refrained from noticing it at all, but for the notoriets which attended the case, and tho unblushing effrontery which chaacterises the conduct of the parties concerned. As the name of the unfuthate diceas d, however, has been so unceremoniously brought befure the public in a newspaper, we feel justified in commenting upon the statemeats contained in the letter:-

## To the Editor of lia Patriot.

"Dear Sir,-A paragraph in your dauly paper of Saturday, announcing the death of our regretted fellow-citizen, James Browne, Esq., states that he died of 'disease of the lungs.' The disease that hurried Mr. Browne to an early grave, was clearly ascertained by three professional gentlemen, on examination of the body of the late Mr. Browne, to be Tubercles, or ulcer of the stomach, and that he died of 'gangrene in the stomach.' The universal love and respect shown to Mr. Browne by all who were acquainted with him, ilentilits his name with every thing that was noble and honourable; he was an affectionate husband, a kind and indulgent parent, and a true, stcady, and inestimable fiiend; the voice of poverty or mistortune were never raised to him in vain-it may be truly said of him, that he was a 'friend to the friendess.'

> - God takes the good, too good on parth to stay, And leaves the bad, too bad to tahe avas.'
" By inserting the above in to-morros's paper, you will ublige

"A Frimd.

"Toronto, May 17th, 1502."
The facts of the case are as follows:-The late Mr. Browne was attended during the earlier part of his fatal illness by Dr. O'Brien, in cons ${ }^{-1 \cdot}$ ation with Drs. Badgley and Bovell. He was alsu seen professionally by Drs Widmer and Kiug. These gentlemen all concurred in pronouncing his case as one of necessarily fatal pulmonary disease. The event fully justified both their diagnusis and prognosis. There was so examination of the body after death. The fiiends of the deceased were requested to permit an examination to be made, but resolutely refused, in consequence of a special request made by the deceased white alive. This information we derive from parties who were intimately acpuainted with
the circumstances. The rerucity therefure of this statement is only surpassed by the ignorance and presumption which it displays. But it may be asked who were the three professional gentlemen, who made the examination (which never took place), and who clearly ascertained the disease to be one of three diseases-tubercles, ulcer, or gangrene of the stomach? We call upon these three illuminati, (if they exist,) to make a clear and scientific statement of the morbid appearances observed by them, and which led them to pronounce this pusitive (?) opinion on the nature of tho case. But this would be impossible.

It is noturious that, during the litter part of Mr. Browne's illness, he was attended by Mr. Gamble the Homeupathist, and we beheve this person was assisted by two other partics practisng the same imposture. It is from one of these, we presume, that the furegong concoction of falsel:ood, ignorance, and indelicney has emanated.

The following able and stringent remarks by a British periodical, when reviewing a work emanating from one of the teachers of this false medical doctrine, are so apponite to this uccasion that we quote them at length:-
"The human mind is ever prone to run to extremes. At one time we behold it admimug, and aluont deifing, the crembs and systems of the past, beeause of the tralitionary glory which inuets them; at another, we ser it rejecting as an idle dream the accumalated experience of sucressive renerations, and eager in its pursut, and fervent in its worship of whatever is new. These two opposite tendencies of our mature find their manifestation with more or les prominence in every sphere of thought, and in all the pursuits of active life. Every one is conversant with them as they are presented in the respective domains of politics and religion; but it has been reserved for these our own days to witness their full development in the arena of modicitio We have been long habituated to the antitheses denoted by Whig and Cory, Conservative and Radical, Old Light and New Light ; now, we are called upon to mark the contrast implied by Allopathy and IIomeopathy, otherwise Asculapianism and Hahnemannism, otherwise Old Physic and Young Physic.,
"We consider that it falls not within the province or competency of non-mpdical juurndism to venture a cuthesm upon Homoopathy, viewed as a systrm of medicine-to inqure into the truth or falsehood of its fundamental doctrine of 'simalia smilibus carantur,' and the alleged 'fficary of its marvellous globules in ther billonth and decillionth dilution. From the application of the remark, however, we ought, doubtless, to exrept such members of the polacal press as have been able, amid their multifarions pursuits and annetues, to master the errudition of medical science, and who theretore feel thenselves entuled to pronounce, ex
cathedra, respecting any apphance, or mode of treatment, not that it is 'improper,' but simply that 'tt glves speedy uelial to patients and their anxious friends.' 'To such mellectuai prodigits we must of necessity concede the right to canvass the merts of this new system of the theory and practice of physic, assured that, if an examination of its pretensions shall awaken therr 'distrust,' they will, in the exercise of a philanthropy, os lofty as ther attanments, in due time 'urm the public mind against it.' Mearwhile, awaiting such enlightenment, we content ourselves to occupy lower ground, and to deal with a question more level to ordinary capacities. It is, whether the University of Edinburgh, in withholding medical degrees from students avowing their fatio in the dnctrines of Homacopathy, are exercising legitimate authority, or are chargeable with tyranny and despotism? Great efforts have been made to excito sy mpathy in behalf of such students, as if their rejection implied a determination on the part of the University to fetter the mind in its seareh after truth, or at least to lay peremptory arrest upon the progressive advancement of medical science. Butan obvons fallacy seems to us involved in this vicw of the case. Dr. Russe!! asser:s that a Unversty medical degree' 'is merely a certificate that the clumnus has diligentiy employed the opportunities of acquirng knowledye there affurded.' It is dmbitess this, but it is more. It is a testimonal that, in the judquent of the cammat ors, the holder of such a degree, among his other qualdications, catcoltrias correte rirus as to the treatment of disease. It is a pubtic decluation on the part of those who grant such degree, that the health and lives of her Majosty's lieges in y y be safely entrosted to the guadhamship of such mo diral graduater But if the candidato for such medneal duploma avous his faith in certain theories which his examinators regard as false, and his preference for certain modes of practice which they betieve to be pernicious, wherein lies the persecution or injustice of rejecting him? For any examining board to grant degrees under sucn crecumstances would, we conerive, be a glaring betrayal of an important trust-an open authentication of what they judged to be falsehood-a public tecommendation of a system of practice which they honestly believed to be absud and injurious. In furming our cetimate of the conduct of the University, the question is not, as some would put it, whether Homoopathy is false or wae; nor, as others assert, whether students may cmbrace its creed and administer is globules; but it is whether a Medtcol Exammang Buard, conscientimusly regarding it as a syatem of delusion and imposture, unght iv leston licenses on those who avow their detcrminanon to put it in pracuce? We upine that the question appealed under this foom to an unblassed judecatory nust receive a negative response. Would there be ingustace or persecution on the part of a Presbytery in refising their attestation to a candidate for the ministry
whose theological tenets they regarded as false, and whose teaching, therefore, they believed would be injurious? or on the part cf a Mercantile Marine Buard in withholding their certificate from an aspining son of Neptune, whose arowed principles of seamanship would in their judgment prove perilous to the life and property entrusted to his care? Rather, would not such procedure on the part of said reverend and lay examinators be accepted as palpable demonstration of fidelity to their trust? Anid if the instinct of common sense, superseding argumentation, prompts such verdict in the cases supposed, will it conduct to any other decision in that under review?
"The genuine Himaopathist, be it understood, is not at variance with the ordinary practitioner on some minor questions of 'Therapeutics, involving the treatment, it may be, of some one or more diseases. He stands in irreconcileable opposition to the latter on the entire doctrine of curative agency. He ignores as false all the principles on which the art of healing has hitherto been based; and treats as worthless the whole record of medical experience, save what has been contributed by the votari's of his own faith. He aims not at lopping off from the tree of medical theory and practice those uscless branches which mar its beauty and impair its strength; but deeming the entire tree essentially corrupt, and its fruit evil, he labours to tear it up by the roots from the soil where it has flourished for more than tweuty centuries. With such antagonism of sentment in all that pertains to the treatment of disease, between the dieriples of Hommenpathy and the edherents of the ancient medical faith, we see not how any University or licensing-board, ranging itself among the latter, can confer upon the members of the new sect the seal of its approbation impiied in a diploma, without a sacifice of integrity and reuth Let the followers of Hahnemann write books and build hospials, and achiswe reputed miracles of cure, and make their aristocratic dupes or converts, with all the energy and zeal to which a love of science or gain or novelty nay prompt; but let them not waste their virtuous indignation, nor ask the public to expend theirs, upon those who, deeming their iacts illusims, and their theory no better than 'the baseless fabric of a vision,: refuse to ratify their creed and to commend their practice."

## MR. JONES' LETTER.

We have no doubt but that the suggestions contained in this letter will meet with attention from the mecting to be held on the 1st July. Dentistry is not as yet sufficiently protected, as a department of surgical scirnce in this Province. Its importance is acknowledged and respected br professional men, and the better informed portion of the public; but with the mass of people any man who can exhibit a flashy case of instruments, and pull out a tooth with apparent dexterity and dispatch, meets with a pecuninry reward more readily, and to ${ }^{\circ}$ a muck larger amount, than the man who has been regularly educated, and practises conscientiously.

#  




Greatest daily range, 30 8, from 3 p.m. on $29 t \mathrm{~h}$ to a.m. of 30 th.

$$
\begin{aligned}
& \text { Warmest day, 2th, Mean temperature, 61.82\} } \\
& \text { Coldest day, 20th. Mean temperature, } 41.18\} \begin{array}{c}
\text { Diference, } \\
20 \mathrm{G1}
\end{array}
\end{aligned}
$$

Tho ".Heans" are derived from six observations dally, slz:-2t 6 and 8 , it m; 2, 4, 10, 12, p.m.
The column headed " Sagnet ' is an attempt to distloguish the character of each day as regards the frequency or extent of the nuctuations of the magnetic dechinations indicated by the selif-registering Instrumetits at Toronto. The classification is to some extent arblerary, and may require future modifcation, but has been found tolerably definite as far as applied. It is as follows.-
(a) A marked absence of disturbance.
(b) Unmportant movements, - not to be called disturbance.
(c) Marked disturbance, whether shewn by frequency or amount of deviation from the normal curve,-but of no great importance.
(d) A greater degree of disturbance,-but not of long continuance.
(c) Conslderable disturbance,-lasting more or less the whole day.
( $f$ ) A magnetical disturbance of the first class.
The day is reckoned from noon to noou. If two letecrs are placed, the first applies to the earlier. the later to the later part of the trace. Ahtiongh the declination is particularly referred to, it rarely happens that the same terms are not appheable to the changes of the hoisontal force also.
Rayank.-Iatest snow on 20th,-depth fappreciable.

Elecation abore Lake Ontario, 108 fect.


Sum of the Almospheric Current in Miles, resolved into the four Cardinal Durcctions:

| North. Wost. | South. | East. |  |
| :--- | :---: | :---: | :---: |
| iot.35 | 105s.14 | 881.90 | 425.75 |

Mean velocity of the wind- 4.00 miles per hour.
Ma, velocty- 21.0 miles per hour, from 2 to $3 \mathrm{p} . \mathrm{m}$. on 17 th .
Most windy day- 17 th : mran relocity -9.90 ables per hour.
Least windy day-83rd: mean velocity-0.13 ditto.
Most whidr hour-2 p.m : mean velocity-6 75 duso.
Leeash windyhour-4am.: do. -1.99 dite.
Mean durnal variation-4.7S miles.
conparative srathaent.

| $\stackrel{2}{3}$ |  | '193PEA | ATURE |  | 1 A | IN | 1 3: | now | Wrma. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | Neath | Max | त1]. | Ilangc | Das: | linchey | Tajsi | Inche | Heati velicits. |
| 1880 | 53.7\% | 71.5 | 308 | 437 | 9 | 1.19c | 0 | No | Miles. |
| 1811 | 5075 | 762 | 26.6 | 496 | 11 | 2330 | 1 | recor, |  |
| 1812 | 19 13 | 713 | 30.0 | 41.8 | 7 | 1.275 | 0 | do |  |
| 18.3 | 49.2 | 79. | 239 | 50.7 | 5 | 1370 | 0 | do |  |
| 1849 | 338 | 77.8 | 49.0 | 48.7 | 14 | 5.670 | 0 | 30 |  |
| 1815 | 80.1. | 756 | 29.4 | -17.2 | 8 | 2300 | 0 | do |  |
| 134t | 553\% | 781 | 31.3 | 438 | 9 | 1373 | 0 | do |  |
| 1817 | 5494 | 72.3 | 27.8 | 147 | 12 | 2.010 | 0 | do |  |
| 1818 | 5414 | 785 | 31.3 | 46.6 | 13 | 2.52 , | 8 | do | 4.93 |
| 1819 |  | 72.5 | 32.7 | 398 | 16 | 5.14: | 8 | do | 5.33 |
| 180 | 1-6 | 76.3 | 31.1 | 45.2 | 7 | 0.585 | 1 | thapp. | 632 |
| 1881 | 3.18 | 73.2 | 297 | 44.3 | 12 | \% 930 | 1 | 0.5 | 631 |
| 185* | 516 | 73.3 | 345 | 388 | 7 | $1.12{ }^{1}$ | 1 | matpr | 4.00 |
| Niean | 3] 71 | 75.64 | 30.41 | 452 C | 10.01 | 2.7681 | C-3 | 538 | 5.38. |

## THE MEETING.

We are happy to find that Dr. Widmer's appeal to the profession has formed the subject of remark by several of the most influential papers in the Province, all of them speaking strongly on the necessity of action, and the propriety of the step about to be taken. It is also with pleasure that we observe that in some places distinct action has been taken by members of the profession themselves, in order to organisa a proper system of representation by delegates. In those localities where measures of this kind nature have not been adopted, we presume that we shall see many come to the meeting.

The meeting will take place in the ILall of the Mechanics' Institute, at 12 o'clock, and means will be employed to give this information to every one who arrives in the City, and who may not otherwise be aware of the time and place.

We believe that every medical man agrees with us in the opinion that something is necessary in order to place the Protession in that position in this Province to which it is justly entited, and which it enjoys in other countrics. The great dificulties in the way appear to be, first, to determine upon what can be done; and, secondly, having determined this point, to set to work properly and earnestly for its accomplishment. Such are the main objects to which the attention of the Meeting will be directed, and we hope to see that they will secure that careful deliberation which their importance demands.

## ErRATA. <br> In Remarks on the Winter of 1851-2.

Pige 1, 3 d line from bottom, dele' in or the.'
© 3, for 'substract' read 'subtract;' also in Note for ' $-10 \cdot 5$ ' read ' 10.5 ;' For 'that it had heen,' read 'and that it had been.'
 Mean, for $32^{\circ .0} 5$, read $31^{\circ} .67$ : also $1845-6$, Janary, for' $16^{\circ} \cdot 1$ read $26^{\circ} \cdot 1$; column Meam, for $28^{\circ} .7 S^{\circ}$ read $30^{\circ} .45$;

Page 4, last line, for 'Jamuary 1833' rcad ' 1839 ?'
Thale III. 1855-6, for $19^{\circ} \cdot 5$ read $22^{\circ} \cdot 6$; last line, for $211^{\circ} \cdot 15$ read $24^{\circ} \cdot 25$, and transfer to foot of column of Mean 'lem. The reference ( $m$ ) is to the remark that this year the observation referred to was ait 7 a.m. instead of 8 a.m.
Page 5, line 12 from bottom, delc ${ }^{\text {a }}$ and 1845-6.' columns 6h. 7h. Sh. A.m., and Sh. 9h. 10h. p.m.
" 8, Thernometric Reductions insert minus sign in each line of Meteonologidar Register. The printer's neglect to insert the signs has deprived the Table of all its significance. The reader is requested tó insert minus sign before each entry in table of Barometer, with the following exceptions: $2 d .10 h ; 3 d .6 h$. 10h. $2 h \mathrm{Mn}$. ; 4d. 6h. $2 h$.; 10d. 6h. $2 h$. Mn.: Also in Table of Whermometer, before each entry, execpting: $1 d .6 h . ; 5 d$. $6 h . ; 12 d .6 h .2 h . ; 13 d .6 h . ; 14 d .2 h$. Mn. ; 15ll. $6 h .2 h .10 h$. Mn. ; 16d. 2 h . 10 h . Mn.; 1 Td .6 h . 10 h . Mn. ; 18d. 6 h. ; $19 \mathrm{~d} \cdot$ 6h. $2 h$. 10. Mn. ; 20d. 6 h. 10h. Mn.; 21d. 672. $2 h$. 10h. Mn. ; 22d. 6h. and 30d. 6h.


[^0]:    - This prationt was quito in a stato of ancemia, and it was (I beliovo) hor sixteenth pregnaucy. Tho orgot was therofore given as a precaution, to procuro permanout contuction of tho uterne, as I foared tho effoct of the slughtest aditional diecharge.
    $f$ This is tho caso roforred to in a formor part of this article, in whom passive dilatation of the utorus, l.alf an hour after delivers, had nearly proved fatal; and in whom violont hemorrhage, without pain, followed tio expulsiou of tho foctus in a eub. eqqueat labour, but was arrested by ergot.

[^1]:    * This caso was tho noarest to a fatal termination I over attended; and tho pationt requirod iron and other tonice for some tume, beforo completo recovery.

[^2]:    * "It is astonishing." says Dr. Watson, "how much relief to the feelings of the pationt, and how great a diminution of tho dropsical symptoms, are sometimos obtained by these active callartics. Pationts will earnestly beg for a repotition of them, oven when their operation is atteuded, for the time, with considorable pand, or suckuess, and much general dietress."-Practice of Medicine, pp. 893.

[^3]:    : Bullotin des Sciences, par la Sociole Phomatique do Paris, annee 1816, p. 109.

