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## THE

# BRITISE AMERICAN JOURNAE 

OF

## MEDICAL AND PHYSICAL SUIENCE．

Vol．III．］
art．XXI－－On TIIE TREATMENT OF ChRONIC IN－ FLAMMATION OF THE BLADDER BY INJEC＇IIONS OF NITRATE OF SILVER．

## By Romert L．MacDonyele，M．D．

Licentiate of the King and Queen＇s College of Physiciume，and of the Royal College of Surpeons，Rrelunt；Lecturer on the Institutes of Medicine，M Gill College；Phyjicinn to the Montreal General Hospital，gic．
I believe it will be generally admitted，that of all dis－ eases，few occasion more anxicty and embarrassment to the medical practitioner，or are productive of more misery and suffering to the aflicted patient，than chronic inflammation of the bladder；the consequence of previous disease of the urinary apparatus，as gonorthea or stric－ ture，or as a primary affection produced by other and more general causes．
In either case，when once fully established，it entails the most excruciating suffering on．its vicim，prevents him following his usulf avocations，debars him from society，and not unfrequently produces death，either from the morbid action extending to the ureters and kidneys，from ulceration corroding through the walls of the viscns，or from the exhaustion of the system it is certain to induce．＊
In a disease of such importance，it is only to be ex－ pected that．numerous remedies should have been pro－ posed for its cure，and consequently we find agents of varions natures strongly recommended by practical writers，yet they all admit the difficulty attending the treatment of the malady，and the failure that has followed the use of their favorite remedies．$\dagger$
Some years agu，Mons．Lallemand，the eminent pro－

[^0]fessor of Mon？pellier，diseovered，accidemally，＊the great value of nitrate of silver in chronic inflammation of the bladder，and the ntility of this plan was shown in a paper hy Dr．O＇Bryen，in the fourteenth volume of the Dublin Medical Journal．But this gentleman does not appear to have had any personal experience of its em－ ployment，and moreover，he confines his remarks to the use of the solid nitrate，the form preferred by Lallemand．

I am not aware that he has done more in this matier than introduce to the notice of British surgeons the views of the distinguished professor．

When a student of the Richmond Surgical Hospital， Dublin，I had an opportunity of seeing my friend and former preceptor，Dr．Hutton，（to whom I am iudebted for much information that I have found valuable in my profession，inject the bladder with a weak solution of nitrate of silver，but as this had（if I recollect rightly） but little effect upon the disease，the practice was aban－ doned in the hospital，nor have I since either seen it employel or heard of its being employed by any，one but myself，and I can find no mention of it in those valuable records of medical practice－Braithwaite＇s Retrospect，and Ranking＇s Digest，or in the recently published Systems of Surgery．

Having met with some cases of chronic cystitis，that resisted general treatment，and bearing in mind the great sutcess which attended the application of nitrate of silver in substance，in the hands of Lallemand，I deter－ mined to give the remedy a further trial in the form of solution，and the success I met with，has far surpassed my most sanguine expectations；I have now no hesita－ tion in stating，that as far as pure uncomplicated chronic． inflammation of the bladder is concerned，that the op－ probrium has been removed from surgery，and that we do possess a method of treatment followed by a greater amount of success than usually attends remedies em．
＊＂When applying caustic to the neck of the bladder，the in－ strument slipped and cauterized the lining membrane of that reservoir，and to his great astonishment，the patient was cured of a chronic catarrh，as well as the affection for which it was intentionally employed．Spealing of this，in one of his lectures． he used the fallowing language：－La premiere fois que cette ac－ cident，m＇arriva，J＇ens pendant plasieurs jours des vives iuquir－ tudex，sur les consequences qui pouvaient en resulter，mais ils i．e ee manifesta aucune phenoment facheur．＂－O＇Bryen，DuLl：n
Medicul Jurtul，Vol，xif．
ployed in diseases of so severe and intractable a nature, and infiniteiy greater thun attends the use of any remedy in a disease hitherto considered by the first authorities as incurable.
In proof of this assertion, I shall adduce four cases, two of which occurred in my private practice, and the other two were witnessed in the wards of the Montreal General Hospital, by a large and intelligent class. I could adduce others, but these I bring forward sufficiently support the views I am anxious to inculcate.
Case I.-A gentleman consuited me last February, under the following circumstances. He had suffered for some months from inflammation of the bladder, marked by frequent desire to pass water, accompanied by heat and scalding, violent straining, pain in the region of the bladder, above the pubis and in the perincuun, and a constant feeling of heatand weigh in the lower portion of the abdomen. These symptoms gradually increased in severity. The urine became at first bloody, and afterwards purulent, and the desire to void it became so urgent, that it had to be yielded to, at least every fifteen minutes; the dis. charge of the fluid being followed by pain and scalding at the neck of the bladder, and along the course of the urethra. His general health became impaired, and his sleep being so frequently disturbed, a haggard and anxious expression of countenance, and extreme irritabitity of the system, were soon established.
When he first consulted me, fully one-half of the fluid passed from the bladder was pure pus; and after repose, a deposit of blood globules was found to intervene between this and the supernatant urine-the latter being highly alkaline, fetid, and albuminous. Examined microscopically, it exhibited some scales of nucleated epi. thelium, a large deposit of tripie phosphate in prismatic crystals, pus, and blood glabules. There was no pain in the loins or along the ureters. He had a stricture of long standing, about one inch from the orifice of the urethra. In addition to the above characters, the urine was frequently mixed with tenacious masses of lymph, varying in length from half an inch to an inch,and entangling a quantity of earthy matter, they frequently obstructed the passage of the urine through the stricture, and required to be broken up and squeezed through by the pressure of the patient's fingers.
Having dilated the stricture, so as to allow a large sized catheter ( N .1 l Weiss) to pass, I determined to treat the disease by injections of nitrate of

[^1]silver ; and accordingly, on 17th of February, I injected into the bladder a lotion composed of eight grains of lunar caustic, two drachms of tincture of hyoscianus, and four ounces of distilled water.
The injection caused hardly any inconvenience, except that of inducing a strong desire to empty the bladder, which was prevented by compressing the penis, watil the fluid had beet in the bladder for about one minute, when it was allowed to escape. The next day, the patient stated that he was somewhat better, but the quantity of pus and blood was not, however, much diminished, and the flakes of lymph were more numerous and larger than before. Although he continued improring, yet, as the amendment was not as rapid as I anticipated, injection of the viscus was again resorted to on the 5 th of March. On this occasion, the quantity of caustic was increased to sixteen grains in the four ounces of distilled water, and the hyosciamus was omitted. A decided improvement immediately followed; the frequency of making water was greatly diminished; instead of requiring to be voided every fifteen minutes, the blad. der could retain its contents for more than two hours at a time, and the quantity of pus had greally decreased. An injection, of the same strength, was again em. ployed on the 281h of March, and with happy result, The urine could now be retained for three or four houn, was passed without pain or scalding, was clear and transparent, and, to the naked eye, free from pus; but, when examined microscopically, a deposit of pus globules and some epithelial scales wete perceptible. On the 18th of April, I repeated the injection, and since then he has been conpletely free from any symptoms of bis troublesome disease ; he has resumed his former node of life and pursuits, and has been subject to various changes of temperature whilst travelling, without experiencing the least return of his former symptoms.
I should mention that, pending the treatment for de cystitis, he had a severe attack of laryngitis cedematos, which was near proving fatal.
Case II.-Mr. -, aged 33, consulted me, July 92 1847. He stated that four years ago, after exposire to severe cold, he began to suffer from difficulty in making water, and from pain referred to the region of the blab der, and extending along the urethra. At first, he ws not obliged to empty the bladder more frequendy than usual, and the urine was unmixed with either pus, or blood. About three years ago, however, the symplows

[^2]just mentioned having existed for twelve months, he began to suffer from a constant and severe pain at the neck of the bladder, above the pubis, and in the perinceum, greatly increased by pressure and exercise. These symptoms have been gradually increasing in severity up to the present, although he has been for four years under the treatment of different practitioners in this city. He now suffers from a constant burning sensation in the situations just referred to, and an excruciating pain in passing water, which he is obliged to do every fifteen minutes; the quantity voided on each occasion not exceeding a teaspoonful.

On examination, the urine was found to be abundantly mixed with pus, (in an eight ounce phial there vas an ounce and a half of pus and ancus,) with a large quantity of blood globules, highly ammoniacal in odour, albuminous, and on being subjected to a microscopical examination, it presented an abundant deposit of triple phosphate in prisms and epithelium.
In this case, 1 commenced at once with an injection of sixteen grains of nitrate of silver in four ounces of distilled water. The immediate effects were, the disappearance of the pain which had been constantly present for three years; the urine was passed without any heat, scalding; or uneasiness; and the necessity for emptying the bludder became less frequent ; the quantity of pus was much diminished, and no more blood was observed in the deposit, and his nights were passed in ease and comfort.
About a fortnight after, the bladder was again injected with the same quantity of the solution of nitrate of silver, and the improvement which followed was equally remarkable. The urine can now, August 27 , be retained for nearly the usual length of time; it contains barely a trace of pus, and is voided without the slightest pain. His nights are spent in comfort, his strengih has greatly increased, and he has gained flesh. Finding himself so much improved, he has gone to the country for change of air, to expidite his cure. Even should some of the symptoms return, owing to the suspension of the treatment, I have no doubt they will quickly disappear after a third injection of the caustic is had recourse to.
Case III.-A man, aged 26, a labourer, was admitted into the Montreal General Hospital, labouring under paralysis of the lower extremities, the result of a severe injury. In addition, it was discovered that he had lost the power of emptying the bladder, and that the urine was mixed with a quantity of tenacious fotid mucus and pus.

He remained in Hospital for some time before he came under my care, and then, the following was the condition in which I found him:-Loss of motion and sensation of
both lower extremities; inability to empty the bladder completely, but yet not requiring the catheter; the urine was constantly dribbling away, when he assumed the erect posture, was highly offensive, mixed with a large quantity of pus, mucus and blood, and crystals of triple phosphate. It is unnecessary to detail the particulars of the treatment employed for the restoration of the power and sensation of the limbs. Suffice it to say, that after some time, the sensation was completely restored, and he had acquired sufficient power over the limbs to enable him to walk about the wards, but no improvement was observed in the character of the urine. The notes taken by one of my pupils state, that "the urine was half put, and caused great pain and scalding in passing."

January 3.-He was ordered the following mixture: R. Infus. Buchu $\bar{z}$ vss. Tinct. Buchu ${ }^{2}$ i. Bals. Copaibæ, Liquor. Potassx, Tinct. Hyosciam aa $\boldsymbol{z}_{\text {sis-one ounce }}$ three times a day.*

Jan. 7.-The quantity of pus had diminished to about one-third, and he was directed to continue the use of the medicine.
Jon. 21. -As the quantity of $p$ us had not perceptibly decreased since last report, I determined to employ injections of nitrate of silver, and as the disease had received a notable check from the internal remedy, I did not consider it necessary to use a stronger zolution than one grain to the ounce.

Jan. 22.-The urine was much clearer, and the deposit of pus was less by one half than previous to the injection, and he could retain the urine for two hours.

Jan. 28.-The bladder was again injected, and next day no deposit was exhibited, and the urine was almost as clear as natural.
This man, soon after the last report was taken, was attacked with maculated typhus, and passed through the disease without suffering the slightest inconvenience from the affection of the bladder; and throughout, the urine exhibited a healthy character; even when examined microscopically.
The case I am now abont to detail, I have already published in a paper "On the Use of the Microscope," in this Journal, and I shall now introduce it as it then appeared :-

Case IV.-A strong, healthy man, aged 30, who had been under the cäre of my colleague, Dr. Hall, in

[^3]the Montreal General Hospital, for gonorrhce, and was discharged cured of the complaint, came to me about a month after lis dismissal from hospital, complaining of frequent desire to make water, and of pain and difficulty in doing so. As there was no discharge whatever from the urethra, I thought it advisable to pass à catheter, and not meeting with any obstruction, $i$ collected the urine drawn off by it, and examined it at the moment. It was slightly acid, spec. grav. 1024, at temp. $72^{\circ}$ Fahr., coagufated on addition of nitic acid, and yielded an abundant exhibition of pus globules on examination with the microscope. Having no symptoms referrible to disease of the kidneys, I treated him for cystitis, and with decided beriefit at first, but as he had not a comfortable residence, and was obliged to walk a great distance to my house, in the late hot weather, I recommended him to enter the General Hospital under my care. Here I had frequent opportunities of drecting the attention of the students to his case. . The urine being again examined, exhibited not only a deposit of pus globules, but also of blood globules. Notwithstanding this unfavourable complication he was discharged about five weeks after admission perfectly cured.

In this case I injected nitrate of silver solution into the bladder; the quantity of pusimmediately diminished, and after the third injection, completely disappeared. The microscope was of the greatest aid to me in every stage of this interesting case.

I introduce this case for the purpose of showing that the injection of a solution of nitrate of silver into the bladder, is not only of use in cases which could have been cured by other means, but that it is eminently successful in those instances which have resisted the most valuable general remedies.

In the foregoing observations, I have made no menfion of the method of injecting the bladder which I have found most efficient. I will now make a few practical remarks on the operation:-The patient being placed either in the erect position or on a sofa, a gum elastic catheter, about the size of No. 9 or 10 (Weiss), is introduced, and water at the temperature of $98^{\circ}$ Fahr., is injected through this into the bladder, by means of a caoutchouc bag, or what 1 prefer, a syringe, with a "three-way valve," by which the fluid can be drawn back from the cavity if necessary. After the bladder nas been completely cleansed of any fotid urine and mucus which may be contained in $i t$, the solution of the caustic, being heated to the same degree, is to be inaroduced in a similar manner, and allowed to remain there for about one minute, care beiing taken by compressing the urethra, to prevent its being forcibly ejected
by the violent straining that is certain to be induced. The quantity of water or solution should never exceed four ounces, for though the bladder in its healthy state is capable of containing nearly a pint and a half of urine, without being over distended, yet as the quantity it is capable of retaining in severe chronic inflammation, schlom excceds a few tablespoonsful, the bladder accommodates itself to its diminished contents and gradually becomes sunaller, and consequently a large injection would act injuriously in two ways-by over-distending the organ, or by passing up into the ureters. In fact, we find it unnecessary to use a larger guantity of the solution than I have mentioned, for it requires some address to introduce even that amount without resorting to force. The patient is then ordered a warm bath, and should the urine become bloody or mixed with shredidy concretions, he should use frequent fomentations and anodynes. But these symptoms seldom last for more than a few hours, and our patient should always be informed that such consequences are likely to be the immediate effects of the operation.

My patients have not suffered from retention of urine, which it appears frequently follows the use of the solid nitrate in the practice of Lallemand, nor have they had any inconvenience which was not readily allayed by an opiate.

The adrantages which I consider the solution of nitrate of silver possesses over that substance in a solid form are, First, that we can employ it of various strengths, from one to four grains, or even stronger if necessary. Secondly, we are certain that the application comes in contact with the entire diseased surface. Thirdly, we are also satisfied that it does not act more violently on one part than on another. Fourthly, it is more readily employed by an inexperienced operator ; and above all, it cannot possibly be attended with any risk, from the apprehension of which, it is not easy to divest the mind, when using the porte caustique of Lalleinand, and together with the above advantages, it has this also to recommend it, that it will be found at least equally successful.

The foregoing observations apply altogether to severe chronic inflammation of the bladder; acute inflammation and mild cases of chronic catarrh of that organ, are manageable by other means, to which it is umnecessary to allude.

In the treatment of these cases, we derive great assistance from the microscope, for long after the naked eye fails to detect pus or blood in the urine, these fluids are recognizable by the microscope, and so long as they are present, our treatment should not be relaxed.

I have intentionally avoided alluding to the general
treatment of chronic cystitis, and have omitted some other practical points, to which I shall probably direct attention at some future period.
51, Great St. James* Street, Montreal.

## Art. XXII-CASE OF POISONING BY VJNEGAR.

By A. H. David, M.D., Montreal.

Poisoning by acetic acid is so uncommon an occurrence, I have to request a small portion of your valuable columns for the details of a case I met with a few days ago ; in which the patient-a widow woman, with four children-took, as near as I cou!d ascertain, a quart bowlful of common vinegar. It appears she had been dull and low spirited for two or three days previous, in consequence of the neglect (as her friends suppose) of a person from whom she had received the most marked attention, and to whom she had been attached prior to her marriage with her late hustand. When I saw her, about three hours after she had taken the vinegar, she was in bed, covered with a cold perspiration, and trembling from head to foot, and apparently ' cai ned at every body and every thing about her. Her breathing was very laborious and hurried; her countenance perfectly wild, and the pupils dilated; the tongue was dry and cold; puise 96 and full; the abdomen much distended, with extremely acute pain at the scrobiculus cordis, so much so, that the slightest pressure there caused her to slinek out. She did not know any one about her, not even her own children, nor had she any recollection of anything that had happened from the time of taking the vinegar, which was about eleven at night, not even of her having gone to bed, which she was the last in the house to do. About one o'clock the inmates were all awakened by her shrieking for cold water, of which she had drunk an enormous quantity before I was called to see her. There was not any pain, heat, or constriction of the throat or fauces, but there were slight efforts to vomit. Having procured some sulphate of zinc, I gave her two scruples in a cup of water, which soon produced full vomiting, with great straining. I had then to leave her, but ordered full and repeated doses of carb. magnesia, till I could see her again, which I did about six hours after, and found her much relieved, and only complaining of headache, which left her after the operation of a dose of castor oil. Two days after, she was taken ill with a slight attack of continued fever, but is doing well.
I should mention that the quantity she threw up from the effects of the zinc was very great, and smelt strongly of vinegar, which she still perseveres in saying she did not take, although she was seen with the bowl fillcd
with it in her hands by some of the family, when they were retiring to rest, she maintaining that ase used the whole of the vinegar in bathing her head. However, I think we have strong presumptive evidence against her having so used it, and are justified in concluding that she took the whole of it.

The only case of poisoning by acetic acid that I have been able to find, is the one related by Orila in the Annales D'Hygiene, and quoted by both Beck and Christison. The experiments instituted by Orfila prove that common vinegar, in large quantities, was found destructive to dogs when vomiting was prevented.

Taylor, in his work on Medical Jurisprudence, says, " Acetic, citric, and tartaric acids are not commonly considered to have any poisonous action on the body. At least, as far as I know, there is no case reported of them having acted injuriously on the human subject;" and he is the only modern writer on Medical Jurisprudence who takes any notice or makes mention of acetic acid.

Montreal, August 15, 1847.

Ant. Xxinh.-I. Geological Survey of Canada-Report of Progress for the Years 1845-6 ; and
II. Geological Survey of Canada-Report of Progress for the Years 1846.7. By W. E. Logan, Esquire, Provincial Geologist.
(the subject continued.)
To the great mass of mankind who as yet regard the labrurs of the geologist as little superior to those of the pains-taking quarryman, or the operative mason, or who, at most, give him credit for being a wonderfully indefafatigable collector of curious stones and pebbles without end, the perusal of even the briefest survey of such works as those above named, and far less of the volumes themselves, will present very few attractions; bai by the philosophic inquirer, the watchful statesman, the enterprising merchant, and even the intelligent agriculturist, they will be welcomed as prospective harbingers of many valuable and instructive results. Still, however, we cannot help feeling that, to the general reader, there must be an unattractive dryness in all geological narrative, which it is out of our power to enliven, and which, therefore, renders our re-approach to the subject a task of considerable reluctance, even after a whole month's respite.*
In our last article, we introduced our readers to the

[^4]more interesting preliminary details of Mr. Logan's progress towards the sources of the noble Ottawa,-in our present essay, we purpose to confine ourselves to con. densing, from the Reports before us, a short sketch of the general character assigned by that singularly indefatigable and elaborate observer, to that river and its tributaries; together with some notices of the sequence and distribution of the geological formations and of the various substances capable of economic application, peculiar to the little known region through which they flow. Having accomplished so much, should our limits permit, we shall next invite our readers to accompany us in a rapid survey of Mr. Murray's labours in an opposite distant quarter, the peninsular mountainous district of Gaspé,-but we fear we shall have to reserve a review of Mr. Logan's interesting explorations in the at present all-attractive mineral regions bordering on Lake Superior, for some future number.

The whole course of the Ottawa presents to the eye of the traveller, perhaps the most extraordinary continuous succession of labyrinthic lakes, headlong cataracts, and tumultuous rushing rapids to be met with in the world ; and of this our Provincial Geologist must have had no little perplexing as well as fatiguing experience, as may be judged from a perusal of the following hastily condensed notices of his progress:-
The Ottawa and its tributaries discharge the waters of an arca which cannot fall much short of 80,000 square miles. The liydro. graphical basin which contains them may be described as bounded on the east by a line comnencing at the lower extremity of the Island of Montreal, and running about 230 miles in a nearly direct course, to a point about half a degree north of the intorsection of the 48 ih parallel of north latitude, and the 76 th meridian of west longitude, constituting in this distance the water shed between the Ottewa streams and those of the St. Meurice and Saguenay. From inis point where the source of the river is to be found, the boundarg turning to the westward, runs for 300 iniles along the beight of land dividing the waters of the Hudson Bay Territory froin thise of Canada, to the vicinity of the intersection of the 48 th parallel of latitude with the 82 d meridian of longitude. The weatern limit, stretching from this angle to within a few miles of the most eastern part of Lake Nipissing, separates it from the streams tributary to Lakes Huron and Ontario; while the southern passing to the north of the Midland and Eastern Districts of Upper Canada, and forward to Vaudreuil in Lower Canada, leaves but a smali space betwcen it and the St. Latwrence. The general shape of this area. is that of an irregular rhomboid, with its long diagonal pointing north-westwardly, and roughly parallel with thrce sides of the rhombord, the north, the west, and the south; at a distance seldom, exceeding twenty and sometines not over eight leagues, the great artery of the region runs, presenting a length of between 600 and 700 miles. Taking its source in the north.eastern corner, it heads with the Saguenay and the St. Maurice; and; fowing in a general course a litte to the south of west, it widens into styeral considerable lakee, and is fed by several tributuries from the north before it reaches Temiscamang, at a distance of about 250 miles. One of the intermediato stivets of wates, about equally removed from Temiscamang and the source, called the Grand Lac, is represented as possessing a deeply indented form, divided into three long sarrow trangeverse belts of water (united to each other by narrow gute or straights) of from 50 to 30 miles in length, by from 1 to 10 in breadth. On the north side of the Lake, near the extreme of" a tongue of land beiwcen the eastern and middle bells, is wituated the Grand

Lac Post of the Hudson Bay Company. Another expansion of the Orawa, with an east and west length of 45 miles, has a $i$ breadth of from 2 to 12 miles. Its western extremity, where the Ouawa hends to the south. is removed from Temiscameng about 15 miles; and in the eastern twelve of these there are no less than fiftecn portages, giving to this part of the river and lake the name of the Riviere and Lac des Quinzes. The font of the lowest of these filteen portages was the highest limit attained by our explorers' canoes. Three of them, however, were visited on fimy. At each, the waters, contracted to a space not exceeding 40 or 50 yards, are precipitated over a step in the rocks ; and the first occasions a beautiful cascade falling obliquely across the channel, and presenting a face of ahout 100 yards, with a height of 12 feet. The average breadth of the stream between these rapids is between 200 and 300 yards; but juet at the ontrance of Lake T'eriscamang, it attains a quarter of a mile.
Lake Temiscamang, which is now entered, if another extensive strip of the Ottawa, which, with a length of 67 miles in a north and south direction, gradually diminishes in breadth from six miles to about 500 yards. It is pinched in, however, th about one.fourth of a mile at the Hudson's Bay Company's Post, 20 miles down the Lake, and again about 35 miles farther, to a width of 200 yards, at a straight called La Galere, and a third time to the same breadth 10 miles farther on. At each of these narrown a current is perceptible, and at the Galere its strength is considerable; but the whole length of the Lake affords an uninterrupted navigation, and the depth of water appears to be sufficient for re. spectable sized crafl.
About half way down the Lake, two short-soursed tributaries enter together on the right. The smaller, called the Metabeechuan, which appears to empty a neighbouring narrow and deeply indented lake; and the other, the Montreal, which has itn source in Lake Tamagamingue : and about 60 iniles below these, on the opposite side, occurs the Keepawa, which, though its source is but 60 miles enst of lake Temiscamang, appears to wind through a length of about 90 miles before reaching it, forming, in this space, merely the connecting links of a succession of lakes, one of which, known by the same name as the river, 150 feet above tie level of Lake 'Temiscamang, occupies a length of nearly 50 miles, and offers a yery 1 rregular and ramified shape; studded with great and small islands; presenting altogether an. intricate labyrinth of waters, equal to 2500 square miles, with every part of which, even the oldest of the Indian humters are scarcely acquainted.
Immediately below bake Temiscamang there occurs a serions impediment in the navigation of the river in a succession of violont rapide, which occupy a distance of $6 t$ miles, throughout which the stream is very crooked, and seldom more than 300 yards in breadth, und frequently contracted to 100 , and sometimes to 50 yards. This collection of rapids bears the appellation of the Loug Sault, and the total fall from their head to their foot is 49 feet; which, although the water is swift all the way, occurs chiefly in five distinct leaps, with a name to each, producing five nortages to voyageurs going up the stream; but canoes shoot the whole in descending.
To the Long Sault suceceds a beautiful stretch of 17 miles of navigable water, bearing the name of the Seven Leugue Lake, varying in breadth from half a mile in the upper to a quarter of a mile' in the lower part, with banks.rather rocky and bold, and pre. senting a pretty consiaut height of from 1 to 200 feet; affer which succeed three powerful rapids, called the Mountain, he Erables, and the Chaudron, with an average separation of a quarter of a mile from nome another. Here the river runs in a section across a range of hills, rising to heights of about 400 or 500 feet, efter cutting throngh which, and niceting the Mattawa, opposite to Grahan, the most remote laid out townshp in Lower Canada, the Ot. tawa changes its course more to the eastward, and, atier an em: barrassed course of 25 miles farther, over five or six more rapids, plunges over one of a peculiarly fierce, violent, and crooked cha, racter, called the Roclic Capitame above, and the Maribou lower down, having a depression of near 43 feet ; shortly after which it is joined by several petty streams, the largest of which, numed the Riviere du Moine, neur which ihe survey commenced, presents as its mouth a width of between 40 and 50 yards.

Though this river is the largest tributary of the Ottawa below Lake Temiscamang, the Mattawa, which has alrexdy been mentioned, is, from its position, [crhaps, destined to become of much
more importance, having been oftener than once thought of as af. fording the best line for a canal to connect the waters of the Ot . tawa with those of Lake Huron by Lake Nipiseing.* The general course of this river is very much in the direction the Ottawa as. sumes after their junction, and it flows in the same geographical depression which the main stream occupies to the Levier Rapid. In a straight line from its source to its month, the distance is 36 miles, and 40 following its bends; and it consists of a chain of lakes unted by short, and slender streams flowing from one to, another; and the farthest exiremity of that forming its summit level, called Trout or Turtle Lake, approaches in a continuation of the general direction of the chain within three miles of the north end of Lake Nipissing. The surface of Trout Lake is 25 feet higher than Nipissing, but what is the lowest elevation in the three nules between them was not ascertained, the canoe route from the oue the other being to the south of this line, and the dis. tance greater.
It is worthy of remark, in connexion with this important embryo enterprize, as well as with the consequently probable more early settlement of this as yet sequestered region, that the flat land at the month of the Mattawa, on the south side, is of good quality, producing a mixture of hard and soft wood, such as blaclebirch, maple, elm, white pine, and cedar, and that it seems to extend some distance both east and west ; that two or three clearings have already heen made on the margin of the Ottawa, and that several persons connected with the lumber business express intentions of effecting ohers; and that a fertile tract of country is described as existing on the south side of Lake Nipissing. On the north of the Mattawa a range of mountains, of no great elevation, runs nearly the whole way from Trout Lake to the mouth; and between their base and the margin of the water, there are occasional good mixed flats, on one of which, at the head of Lake Talon, were seen elm, ash, and maple trees, with a few oaks, while marsh land in the vicinity yielded good meadow hay; but the slopes produce soft wood chiefly, the prevaling species being red pine, some of the groves of which appeared to be of good size.

Of the quality of land in the interior, obscrves Mr. Logan, some evidence is also derived from the rivers; for while at the mouth of the Blanch, for example, the land was asecrtained to be good, producing elm, poplar, maple, and basswood, mixed with balsam firs, it could be gathered from the great quantity of white sediment held in suspension by its waters, giving the river its name, that it must flow hrough an alluvial valley; and the extent of its delta which displays a marked protrusion into the lake, renders it probable that this alluvium may reach to a considerable distance. The marshes arising from the sediment deposited by the rivers at their moults, as has already

[^5]been mentoned, are extensive. They prodice an abundant sipply of good neadow hay; and so valuable a provender does thas prove for the purposes of the lumhermen lower down, that it is occasionally transported in donble barges sixty seven miles, fo the foot of the lake, and then run down the rapids of the Long Saitit on eribs, for the winter support of the oxen used in hauling tim. ber.

But in the district that came under our cammination, though some species of hard-wond trees are found on the flat lands and oceasionally cluthe the higher grounda, the proportion which they bear to timber of a soft description is quite insignificant.' Reid and white pine form the slaple wood of the curntry, and the banks of the Ottawa and its ributaries may most eimplatically be said to constitute one of the most important pine timber regions any where to be met. with. The endless succeesion of forrsta of both species mentioned, presented to our view in the whule of our exploration above Bytown, would seem to be almost inexhanstible, and it appears to me that in the higher parts of the main streaim visited by us, the quantity of red pine preponderates orer that of white. The greater value of the former causes it to be songht for at greater distances than the other. We formad chantiers evtablished for the purpose of entting it, as high as the Galere, on 'Itmiscamang, where lumberers were then in full operation; and we observed a deserted one several miles above the Fudson Bay Company's post, shere red pine had been prepared two or three years ago, by the Messrs. M'Connel, whose enterprise has carried them firther up than any other limberers on the river. We were informed the time occupied in conveying the timber frim this distant point to Quebec, was, under fiavourable circumstances, just wo munths. No white pine timber has yet been carried from any place.higher that Bennett's Brook, which is about 140 miles lowrer than the other spot, but as settloment creeps up the river, and incrases the facilities with which provisions and material for the uses of the woodsman. with tuder for his cattle, can be supplied, it will gradually be sunght at higher points.

On the Ottawa, the occupations of the humberer and the farmer have heen a great encouragenent to one another, and while the advance of settlement has enabled the hamberer to push his enter. prise further and further up the stream, it is mainly in conse. quence of the trade in its timber that the banks of the river are so fast filling up with inhabitants. The wants of the lumberman afford to the farmet a ready market for his produce at high prices, and present a great encouragement for locstion wherever good land ocenrs; while this has been found in sufficient abondance to estublish nany thriving settenments in localities, which but for the timber trade, might have been. overlooked for some time to come. These settlements once established, producing enough for their own consumption and sumething to spare, may ultimatrly constitute a back country of considerable importance to the prosperity of those points at the moulh of the diver, conveniently situated for supplying the wants of its inthabitante; and Minatreat as the principal of these may hereafter find the vallies of the Ottawa and its tributaries of essential benefit in assisting to support the cminence she has attained among the cities of British North America.

Below the Joanchim Falls several clearings occur on the aouth side of that fine mavigable reach of the Ottawa, called the Deep River, which there stretches twenty-four miles, in an almost perfectly straight. line : at the foot of it also there is a block of settled land, not yet surveyed, behind Fort William, on Lake Allumettes, and many locations have been cleared on the Allumetles Island. which has been now recenty surveyed; but the village of.Syden. hum (including (ampbelltown, which is part of it) al the mouth of the Muskrat River, in Pembroke 'Township, may be coissidered the highest centre of settlement on the river. 'The distance above Bytown is about eighty-five miles by land and ninety-five by water ; and in addition to many neat and substantial houses, with stores for the sale of merchandise, it possesses a grist and two saw mills, and several respectable tradesmen there find full occupation in their several arts. In the grist mill there were ground in the season previous to our visit 12,567 bushtes: of wheat. 13,789 bushels of oals, 5659 bußhels of Indian corn and pease; and as there is another grist mill at the foot of the slla. mettes Island, which ?probably may have done equal work, about 25,000 bustrels of wheat, one half of which is fall sown, may be considered the quantity of this species of grain raised from the clearings in the vicinity. But the grain to the cuitivation of
which the eleared land is chiefly devoted, is oats. It is found a more profitable crop than any other, in consequence of the great demand the necessitics of the timber trade occasion. Sydenham constitutes a markel for a considerable quantity of cats brought from lower points on the river; and in winter this and other de. scriptions of grain, with flour and barrelled provisions, in addition to the regular supplies of these last commodities, carried up systematically by the principal timber merchants, by the Oltawa, are brought from localities on the St. Lawrence as low down as Brockville. The ordinary price of wheat is 6s per bushel, and that of oats 3s per bushel. Hay is sometimes brought from equal distances, and its ordinary price is from $\mathbf{f 6}$ to $\mathbf{£ 7}$ per ton.
To the interesting, and, as regards fiturity, important details from which the foregoing very disjointed sketch has been condensed, there is appended an elaborate tabular series of the rapidly rising levels of the Ottana and its branches above that of the St. Lawrence at Three Rivers (the highest point affected by the action of the tides), by which it appears that at Bytown, 205 miles above Three Rivers, the height is 118 feet; that at the confluence of the River du Moine, 14.1 miles further, it is 424 feet ; at the mouth of the Mattava, 44 miles further, 519 feet; and at the head of Lake Temiscamang, 4922 miles from Three Rivers, it is altogether 612 feet above the level of the sea.

A similar table is also given of the levels of the Mattawa, by which it appears that at its mouth it is 519.5 above the level of the St . Lawrence; and that from thence to Upper Trout Lake, during a short distance of $39 \frac{3}{4}$ miles, a further rise takes place of 170.7 feetmaking a total elevation of 690 feet above the level of the sea. And this is followed by two more tables, the one, showing the levels from the surface of Upper Trout Lake, near the source of the Mattawa, to that of Lake Nipissing, by which it appears that a rise takes place from thence to the anticlinal ridge or height of land between it and the Vase River of 24 feet 6 inches, and that from thence there is a fall of $26 \frac{1}{2}$ feet to Lake Nipissing, in the course of $4 \frac{1}{4}$ miles: the other, showing, according to Mr. Hawkins, the Upper Canada Surveyor, the levels from the surface of Lake Nipissing to Lake Huron, at the mouth of French River, from which it would appear that there is a descent from the former to the latter of only $8 \pm$ feet, that of Lake Huron being estimated to be 581 , or three feet more than the ascertained height according to the State Surveyors of Mirhigan.

To these tables is also appended an interesting Register of the mean temperature for two years at the Hudson's Bay Company's post on Lake Temiscamang, where, the good folks of Montreal will be rather surprised to learn, at the height of 630 feet above the level of the sea, the thermometer was never much lower at sunrise in January, 1844, than 1 degree below Zero; at noon $12^{\circ}$ and at sunset $10^{\circ}$; and that in July it ranged from $58^{\circ}$ at sunise, to $78^{\circ}$ at noon, and $66^{\circ}$ at sunset, and that in

January, 1845 , it varied from $8^{\circ}$ to $17^{\circ}$, and back to $13^{\circ}$, and in July from $58^{\circ}$ to $67^{\circ}$. While in this city, during the same years, the thermometer frequently descended, during the winter, as low as 10 and 15 degrees below Zero; and in the summer reached as high as $93^{\circ}$,-and in more instances than one, even to $96^{\circ}$.

Having levoted so much space io the above details, we are compelled to be as brief as possible in our notices of the sequence and distribution of the geological structure of this interesting region; and in these we shall endeavour, as far as possible, to quote a few isolated extracts, rather than attempt to condense disadvantageously Mr. L.ogan's lucid observations on the subject.

METAMORPHIC SERIES.
That part of the Ottawa which lies between its iributary the Mattawa, and a point about three miles suuth of the mowh of the Montreal and Metabeechuan rivers, appeats to cross the axis of ar unticlinal arch, which separates the rim of the great southern trough of fossiliferous formations sf which the western geolugical area of Canada has been herctofore described as forming hit a patt, from a northern trough whose strata, yatially scetl in Canada, probably run under the waters of Hudsun Bay; but whose general relations camnot be fully understood until a great collection of facis shall have been accumulated beyond the north. ern bounds of the Province.
The lowest rocks which this undulation brings to the surfaco are of a bigrtly crystalline quality, belonging to the order which, in the nomenclature of Lyell, is called metamorphic instead of primary, as possersing an aspect inducing a theoretic ;belief that. they may be ancient sedinuentary formations in an a:tered condition. Their general character is that of a syenitic gneiss. Their general colour is reddish and it arises from the preserice of red. dish feldspar, which is the prevailing constituent mineral. The feldspar, however, is often white, and frequently of a bluish grey. The rock is in no case that I have seen without quartz. Horn. blende is seldom absent, and mica very often present. The pre. vailing colour of the quartz is white, but it is often transparent or transiucent. The hornblende is usually black and sometimes green. The mica is often black, frequently brown, and generally of a dark tinge. The rock (carefully distinguished from dykea) is almost universaliy small grained, and though the constituent minerals are arranged in parrallel layers, no one constituent sa monopolises any layer as to exclude the presence of others; but even in their subordinate arrangement there is an observable ten. dency to parallelism.
What the thickness of the whole volume may be, has not been ascertaiued. The dip of the strata was usually at high angles, and toward the Mattawa it appears to point more generally southward. But there evidently exist many undulations, often acconpanied by contortions.
To the sonth of the Mattawa and of the Ottawa in its continu: stion after the junction of the two streams, importunt beds of cryatalline linestone become interstratified with the syenituc gneiss, and their presence constitutes so inarlsed a character, that it ap: pears to me expedient to consider the mass to which they belong as a separate group of metamorphic strata, supposed from their geographical position and general attitude to overlie the previous rocks conformably. The limestone beds appear to be fewer at the bot tom than at the top of the group, but whether few or many, they are always separated by beds of gneiss, which in uo way differs either in constituent quality or diversity of arrangenent from the gneiss lower down, except, in regard to the presence of accidental minerals, the most common of which are garnets.
The limestune beds are in general crystalline in a high degree ; occasionally they are composed of an aygregation of rhombohedral crystals of calcareous spar, with faces equal to an inch square. They are in general cross.grained; sometimes they may be termed saccaroidul, but it rarely happens they are so fine in texture as to be entitild to the character of compact. Their general colour is White. They are sometimes barred with grey in the direction of the strata, and are occasionally wholly grey. It mometimes occurt
that they are partially fiesh or salmon coloured, but $I$ have never seen this tinge diffused throughout a bed, or extending to any great distance in it. It is seldom that the beds are fonnd wholify composed of pure carbonate of lime. Suveral accidental minerals are usually associsted with this, and they may vary in quantity and kind in different parts of the horizontit and vertical extension of the group. The most frequent monerals imbedded in the cal. careous strata, independent of such as may belong to the dykes, zuhich occasionally traverse them, are apatite, mica, serpentine, tabular spar, scapolite, pyroxene, hornblende, tremolite, chondro. dite, idocrase, quartz sphenc, specular iron, iron pyrites, copper pyrites, and graphitc.*
On the swuth side of the great anticlinal axis, the rocks on the Ottawa, qucceeding the two metamorphic groups which have teen described, belong to those at the base of the American fis. siliferous series of formations. They rest unconformably on the metamorphic rocks, the contortionsand dykes of which they were sometimes seen to cover in a quiet and nearly horizontal attitude, while they were nowhere observed to be tilted up to a very high angle. The lowest is a sandstone of a partially calcarcous chairacter, pussing by a diminution of the arenaceons mixture into the next, which is a limestone, brcoming bituminous at the top; and the third is a bituminous shate.

In the valley of the Ottawa the whole three formations under description, from the base of the arenaceous depnsit to the summit of the bituminous, do not, it is probable, afford a greater total thickness than 1000 feet. To the northward it has not been uscertained that they reach beyond the mumediate banks of the river; but in a westward derection the apper formation is known to extend to the vicinity of Bytown, while the middle and lower ones prolonged from the main body of the area to which they belong, in finger.shaped troughs, and in patehes disjoined by coneiderable intervals, were found to attain to Me Matluwa, a distance of 150 miles farther. In no instance was the limestone, which is well stored with foseils, found to rest on the metamorphic etratia without the intervention of the calcifrous sandstone, in which, fur the present, is included only that pontion of the senes that is neariy destitute of organic reinains; and the lithological character of the whole three formations, excluding the more silicious part at the very base, secus to be muintained with considerable uniformity throughout the district.

The bituminous stales which rest on the sandstone formations are met with in two localities in the neighbourhood of Bytown. One of them at the extremity of St. Louis' Dam, and the other about wo miles up the river Ridean.
As in other parts of the Province where this deposit has been met with, the shales are black in colour, giving a brownith streak. They are thinly laminated and britte, and the amount of bilumen in them is usually sufficient to yield a flame when they are placed ou the fire. This property has in this instance, us in others, produced delusive expectations of coal in the district, the mineral condition of the deposit having been compared to that of several shales which will sometimes constitute the roof of a workable coal scam, or be found interstratified with the coal measures. Bm mere black bituminous shales are not an indication of coal meat sures, any more than blue argillaceous shates, or sandstones, or limestones, which are all occasionally interstratified with such measures, and must, almost inevitably, with mineral coal, comspose the mass of theen, for shales, sandstones, and himestonss constitute nearly all the maltered sedimentary rocks of the glabe. The colour and mincral quality of rocks do not afford the ineans of identification in localities distant one from another, without a refcrence to a traced-out succession or organic contents; and the remark is pecoliarly applicable in this purt of Americu, where no less than four formations are strongly marked by the presence of black bituminous shales. The highest is the coal formation; the

[^6]next is one about 3,000 feet below it ; the third is 3,000 feet still lower; and the foorth further down still betig the next in successin.

The succession of rocks in ascending order met with ou the north side of the great anticlinal axis, after crossing 63 miles, measuring on the Ottawa, from the mouth of the Mattava, occupied by the unbroken unformity of the lower metamorphic or syenitic gneiss formation, is, 1 sl , chloritic slates and conglomerates; 2d, greenish sundstones ; fossiliferous limestones.

Along the whole valley of the Ottawa, tertiary deposits of clays, sands, gravels, and boulders are met with in many parts ; and marine testacix, of the post-pliocene period were found embedded in the clays and sands in various sections of the country in the lower part of the rivers. The deposits in which they occur, cover the whole valley of the South Petite Nation and its tributaries, and were found in Templeton, Hull, Nepean, Pack. enham, and Fitzroy, to the mouths of the Mississippi and Madawaska, in some instances at a height of 410 feet above the sea.

Fresh water shell marls occur in many places in the alluvial deposits of the Ottawa; and among the phenomena which come within the recent period rounded and polished rock suffaces bearing grooves and scratches (indicative of glacial action), are of not unfrequent occurrence. But, on the shores of Lake Temiscamang, they are so numerous, and are combined with other circumstances of so marked a character, as to deserve particuli r notice. This, however, our limits will not permit ; and we are therefore compelled to refer our readers to the report itself.

The substances capable of economic appiication, found associated with the harder and softer formations of the Otawa, are of various descriptions. The chief are the magnetic and specular oxides of iron, bog iron ore, brown ochre, galena, copper ore, plumbago, limestone, and serpentine fit for mable-work, building-stones, flagging tilestones and slates, second class mill-stones, grind-stones, and whet-stones, stone for glass-making, clay suitable for pottery and bricks, stone yielding common and hydraulic litue, peat, sheli-marl, and mineral springs, possessing medicinal virtues. Of these our limits wall only allow us to notice, that the galena or lead ore may certainly prove of considerable importance; that the fact of copper ore existing so lar east of the Lake Superior mineral region ought to lead to further investigation, particularly as the specimens found in the Township of $\mathrm{M} \cdot \mathrm{Nab}$, though small in quantity, were accompanied with the important circumstance of occursing associated with a vein; and that the plumbago or black lead may also prove of commercial value, parcels already exported to Britain by Mr.

Harwood of Vaudreuil having found a remunerating price. Among the limestones of various shades, fit for the purposes of ornamental architecture, may be mentioned those of Terrebone, Packenham, Grenville, and $\mathrm{M} \cdot \mathrm{Nab}$; but the most remarkable, and of greatest prospective value, connected with the fine arts, is a snow-white, fine-grained dolomite (magnesian limestone) or best statuary marble, found near the source of the Mississippi, to the rear of the Township of Barrie, in the Midland District. Common-limestone, for building and agricultural purposes, as also shell-marl, is still more abundant. Of the medicinal mineral waters, the already far-famed Caledonia Springs are a well-known example; and an analysis of several others will be found classed in an appendix under the head of sulphurous, saline, and chalybeate, as examined by the chemical assistant of the Survey.

Having already exhausted the limited space allotted to us, we are unable to do that justice to the labours of the Assistant Geologist in the Gaspe peninsula which they deserve; and we are the more led to regret this, as in the view which we proposed taking of the recent survey, it was our intention to associate with it a favourite idea which we have long entertained, that if colonization on a limited, and, therefore, anti-Godby \& Co. scale, is deserving of encouragement, there is no quarter of wide-spreading Canada which would prove a more congenial home to a large, well-associated immigiation from parts of the coast of Ireland, or from the Highlands and Islands of Scotland, than the District of Gaspe. Nay, so much are we impressed with this opinion, that we may, perhaps, be tempted to resume the subject hereafter, in an article expressly devoted to that at present all-engrossing topicemigration. In the meantime, we are content to offer the following remarks, incorporated with a few condensed extracts from Mr. Mivurray's Report."

[^7]This survey was, in a geographical and geological point of view, a continuation of that of the former season, and embraced the prolongation of an important base line, at the same time that geological objects were not forgotten, specimens being collected of all such rocks and fossils as were supposed to be necessary to illustrate the structure of the country, while samples of such mineral waters as were met with were preserved and forwarded to Montreal for analysis.

Without detaining the reader with any topographical description of the short-coursed rivers, or of the interior, of the Gaspé peninsula, we proceed at once to notice its most remarkable and imposing feature, viz., the chain of Notre Dame Mountains.

Their western extremity, as observed by Mr. Murray, is within two miles of the River Matan, in the District of Rimouski, and about 21 miles inland, and its breadth does not here exceed two miles, while the summit heights are, on an average, about 2000 feet above the sea. The range runs nearly due east and west, and increases in width and elevation as it advances eastward. At the lakes of Matan, it occupies a width of four miles, and the highest summits are about 2700 feet, while at the Chat, where that river intersects the range, there is a breadth of six miles, and the most elevated peaks rise to upivards of 3500 feet.

At the Forks of the Matan, the deep valley which cuts the chain is rather wide. On the east are seen elevated mountains, a spur of which, bounding the valley of the Ste. Anne in its southern turn, separates its waters from those of the Magdalen. On the west rises a vast mountain, ascertained by barometrical observation, to attain an altitude of 3778 feet, which our Geologist was led to name Mount Albert, in honour of his Royal Highness, it happening to be the anniversary of his birth-day on which its side was scaled. The summit is a barren waste, extending over an area of between seven and eight square miles, the most elevated parts being on the north-east and southwest extremities, from each of which the surface slopes gently towards the centre, where it is frequently boggy, producing a short wiry grass, almost the only trace of vegetation to be met with.

Pools and springs of excellent water are observed in almost every direction over the bare surface of the great mountain, supplying numerous brooks and streamlets, several of which, uniting on the south-east side, form a considerable body, which flows rapidly in a deep sorge to the eastward, and joins the main south branch of the river; others, running to the northward, empty themselves into the main stream below the Forks. Between Mrunt Albert and the eastern part of the high continuous chain from the Chat, the mountains do not appear generally to exceed from 2,000 to 2,500 feet in elevation, and have frequently small lakes on their summits.
The whole of the range west of Mount Albert sis covered with forest, except on the extreme summits of the highest mountains, which are bare rocks. The growth on the more elevated plaing
is chiefly dwarf spruce, and in smaller proportion white birch trees of diminutive size, standing widely apart, the intervals being generally earpeted over with a luxuriant growth of lall ferns. The mountain sides lower down are elothed with balsam fir, spruce, and white 'birch, with a few white pine and black birch trees at wide intervals, and cedars in the moist places. Monnt Albert itself is almost entirely, both on its summit and its sides, $n$ vait bare rock, while the mountains to the east of it, lying between the Sirc. Anne and the Magdalen, secms likewise for the mast part to be destitute of vegetation.
The country gencrally to the north of the great mountain range consists of a serjes of ridges running parallel to it and to one another, which decrease in elcration as they advance to the westward and as they approach the shores of the St. Lawtence. These ridges are entirely covered with a dense forest, consisting of balsam fir, spruce, white, black, and yellow birch trees, white pine, and white cedar ; maple, elm, and ash likewise occur, but are comparatively rarc. Pine trecs of gond siuc, and many groves of fine spruce, occur then the hills, near the banks of the Ste. Anne and Chat, but on the main branch of the Matan such timber, although not altogether absent, is rare. This is the morc in be regretted, as it affirds facilities for driving far superior to any other river on the south coast of this part of the St. Lawrence, being casily accessible to the highest of its lakes.

Except on the gats," and on the low lands near the shores, the onl appears to be of a very light description, and holds ont but few inducements for agricultural improvement; on them, however, the quality is frequently very favourable, and of this the settlernents at Matan, Ste. Anne, and Cape Chat, are examples. South of the mountain range, on the Matan, the size and character of the forest growth indicate a better description of soil than on the north, and the country being less broken or mountamous than that to the eastward, might, were it less remotely aituated, be cleared and cultivated. Hitherto it has been but parely visited, except by Indians or hunters in pursuit of fish or firs. Game ahounds through the whole of these forests, and the rivers are amply supplied during the summer season with fish and water.fowl. The Chat and Ste. Anne ahomd with the finest descriptinu of salmon and sea-tront; but since the erection of a saw.mill, lieing unable to get over the dam, they have entirely disappeared from the waters oi the Matan, where they are said to have formerly been more numerous than in any other river on the cobst.
The rivers on the north coast of the Gaspe Peninsula, runuing for a considerable portion of their conrse directly transverse to the general sirike of the stratification, afford the best, if not the only, means of obtaining exposed sections of the older rocks in the interior; the whole country elsewhere, except on the summits of the highest mountains, being clothed with a deuse forest.
For the sake of distinction and convenience, we may divide the rocks that have been examined, into four groups:

1. Red and green shales, black and dark.green shales with calcareous bands, and breceiated limestnnes.
2. Metamorphic rocke of the Notre Dame Mountains.
3. Gaspe limestones and shules.
4. Gaspe sandstones.

The first of these occupies a breadih on the Matan of 21 miles, on the Chat 12 miles, and on the Ste. Anve from 12 to 13 miles. On the Matan, red shales occur in two different places, and are usually striped or spotted with green, and associated with shales of that colour. Supperior to the red shales, the most conspicuous rock in this groupe is a brecciated limestone conglomerate. On the Chat, the same breccia occurs, resting on red and green shales, underlaid by sandstone. Up the Ste. Anne a breccia occurs, composed of large flattened picces of limestone and black shale, and grey or greenish coloured fragments of an arenaceous rock, in sinall quantity, in one strong band, and a few minor ones interstratified
with black shale, resting on dark grey or black slates, holding in the upper beds numerous nodules of dark blue limestone, some of which are as large as a 32 lb . shot. Both the shales and the brecciated conglomerates hold great quantities of iron pyrites, sometimes in the form of balls or nodules, and at other times in aggregated crystals. In one instance, black bituminous matter, resembling coal, was furnd in the cracks of a blue limestone, which underlaid the brecciated rocks.
The resemblance between the breceiated band, with its as50. ciated rocks, and the rocks on the coast between Ste. Anne and Cape Chat, as described in the previous Report, suggests the probability of their being identical; but if such be the case, it must follow that the rocks of Ste. Anne are completely overturned, showing an inverted dip, as there the conglomerates appear to plunge below the pillar sandstones, whereas in the positior, they occupy in the river sections on the Matan, the Chat, and the Ste. Anne, they appear to le above them. In every part of this region there is evidence of vast and vioicnt disturbances, and m some sections exposed on the Matan, as in many of those ob. served the previnus ycar on the coast. a complete inversion of the strata is traceable on the face of the cliffs.
The limestone bods have an oolitic appearance, mentioned as sometimes associated with the breceiated rock, and are of good quality for burning intolime, and on the Matan have been quarried and used for that purpose. Aunong the black slates, tolerably good ronfing material may occasionally be found.
The 2d, or metamorphic rocks of the Notre Dame Mountains, correspond with the description given in last year's Report of the mountains of the Chat. The coloner is invariably, more or less green. In some instances, of a pate yellowish green, striped or mottled over with red jaspery patches, and are very hard, com. pact. and siliceous. At other times they are found of on olivegreen colour, as a fbrous splintery slate, and occasionally they possese a character allied to mica schist. Talc and steatite were sometimes observed among loose fragments on the surface.

Momnt Albert is composed of a dingy-grees and brown or buff coloured micaceous earthy trap, which in many parts is strongly magnetic. . . Boulders of red svenitic rock, sometimes of large size, weighing probably three or four hundred pounds, brit more frequently smaller, and a few of red indurated slate, almost converted into jasper, are found in the brooks and rivers.

The 3d, or calcareous and fossiliferous groun, which at the Forks of the Chat rests on the southern base of the mountain range, strikes from them neally due west, and occupies a similar relative position on the sonth bank of the Matan
Among the embedded fossils were observed Conularia, Leptena, Atrypa, Spirifer, numerons univalves (principally of one specicb), and a few orthoccratites and encrinital colunms. Near the source of a small brook. which joins the Matan five milea above the junction of Trout River, are some springs of a mineral character, having a strong sulphurous odour, and an incrustation of a ycllowish white maierial, sometimes varied with a pinkish tinge, around their edges; the water limpid and mineral taste very weak; with a feeble cvolution of gas at intersals of several minutes, and temperature at midday $48^{\circ}$ Fah., while in the open air it was $66^{\circ}$. These springs are greatly jesorted to by herds of rein deer, and numerous broad paths beaten by their feet, diverge from them in all directions.

The lower 13 miles of the course of the St. John flows over a portion of the remarkable arenaceous group already moticed, to which Mr. Logan has given the name of Gaspé Sandstone.

The gencral character of these rocks is that nf drab-coloured enarse-grained sandstonos, sometimes in thick massive beds, at others in thin irregular strata, interstratified with greenish gray arenaceous shales, the sindstone beds sometimes parted by thin beds of carbonaceous shale, composed alnost entirely of carbonized and comminuted vegetable remaine. Vatious sized peb.
bles are frequently seatered throngh the sandstones irregularly, although nowherc sufficiently numerons to constitute a conglomerate. Red or brownish colomed nodules arc distributed throngh some of the beds, from which proceed extensive forruginots stains, and the divisional planes of the rock are gencrally thickly covered over with carbonized and comminutrd remains of plants. Shells were likewise frequently met with, among which the genus Spirifer was common, and large lorse masses were found on the banks and in the bed of the river, compused almost exclusively of shells inctosed in an arenaccons matrix.

At the months of the rivers there is usually a tertiary deposit of clay, generally of a blue colour, with aand or gravel over it, forming the banks. Over the elay, in some cases, marine shells were deposited in layers: the genera Mytilus, Mya, Tellina, and Falanus, some of them apparently spreifically identical with those which now inhabit the St. Litwrence, were met with at the hight of from thirty to eighty feet above high water mark.

Many of our readers may be disposed to think that we have devoted a great deal too much space to the above to them dry, but, to the philosophic enquirer, interesting details, and we plead guilty to the charge; but when we reflect how much of the future prosperity of our splendid Province depende upon an accurate knowledge of our natural resources, as applicable to econonic and commercial purposes alone; and how much that knowiedge will tend to a spieedy settlement of vast portions of the yet pathless wilderness, we confess we are anxions to infuse, if possible, into our compatriots generally, some degree of fellow-feeling with the very few scientific gleaners at present to be found in the vast field of the natural history of Canada, and more particular!y with the isolated, talented individ,als whose laborious investigations we have of late had the pleasure of contemplating; and we would, at the same time, earnestly recommend to every son of the soil not to consider the prssession of science as indispensibly necessary to being materially assisting in forwarding any future geological operations, in whatever part of the country his lot may be cast; as the merest collector, or casual observer, by carefully laying by speciinens of any uncommon rock or fossil which may fall in his way, with a memorandum of its locality attached, may otien be the instrument of directing the attention of the genlogist to the most important discoveries.

We would also take the opportunity of here expressing our deep regret that no provision has yet been made, for the incorporation of a Zoological and Botanical Department with the Provincial Survey; as we are confident that a peculiarly rich field of inquiry would be developed in the very mountain regions of which we have just been taking a cursory view. That this should still be a desideratum in so important a nationol undertaking, must astonish not a little the eulightened Nobleman at the head of the Government; and we shall therefore not altogether despair for a season. In the mean time, we rest satisfied with having so far done our duty as a puhlic writer, in having, in our former arlucle, called the atten-
tion of the Government as well as the public to the remarkably un-Britist puny scale, on which the Provincial Reological Survey is at present conducted, and we even venture to indulge a hope that the old Roman adage, "Verbum sat, sapienti," will not, in this instance, be applied altogether in vain.
L.

Summary of the Transactions of the College of Physicians of Philadeljhia, from December, 1846, to .9pril, 1847, inclusive.
The College of Physicians of Philadelphia publish semi-annually a report of their transactions, embodying a general detail of their proceedings, and the most important papers read before them. One of these papers in the transactions before us, possesses but a local interest, as, for example, the annual report, by Dr. Moore, on meteorology and epidemics-demonstrative, however, of great industry; but there are several others of a different description, and we take the opportunity of quoting the following interesting remarks on, and case of, phiehitis.

Dr. C. D. Meigs narrated the nutlines of a case of phlebitio from vencection in the arm. oceurring in a gentleman about fifty pars of age. The inflammation of the membrana vasorum emmanne resulted in the production of pus which filled the versel. The abecess thus formed was partly discharged, after some daya, at he orifice mado by the lancet in venesection, another large tractus of the vein was not thos emptied, hut seemed to discharge itasli by a re-rpening of the communication with the sub.clavian vein, causing thus the injecion into the circulation of a large quantity of pus, which prodeced almost immediate death, with the ustat symptome of a purnient infection of the bliod.' The doctor suggested, in a similar case, the propriety of an carly opening to give discharge to the pus, and prevent fatal results.

This case gave rise to considerable discussion as to the proper treatment of phletitiv, hoth previous to, and after the formation of, phe within the vessel. In the course of which, the suecess attending the fratment by blisicring, as recommended by the 1ate Dr. Fhysich, was alfuded to by veveral of the fellows. In illustration of the effects of this teatment, Dr. Fvans related a case of phlahitis. occuring in a female over fifty years of age, affected with mania, constituionally fechle, and much excited. The disense made its appearance first in the superficial veins of the right forearm, and had existed for a day or more, before it attracted mueh attention. The whole furc-arm and hand, to the end of the fingers becane highly reddened and cedemateus, the veins were greatly distended, and their coats thickened and resisling ; the pulse was smatl, about one hundred pulsations in the minute, and hard; tongue conted with yellow fur ; great roshlesness. A bister was applied, and hydrarg. prot. chlorid. et ipecac. at gr. 1-6, to be given every two hours.
The next day the firemarn was improved, but the inflammation had extended up the arm, into the axilta, and the superfecial veins, over the top of the shouldier, and along the chavicle were affected. the whole being greatly swollen, hot, and sensituve. Pulse, in the left am, about the same frequency, but smaller; skin hot, and dry; bnwels confined. Applied a blister along the course of the veins of the arm. and annther over the shoulder and along the chavele. The fure-ama and hand to be kept covered with cloths kept saturated with lead water and landamm. Directed magnes. sulph. $z^{3} \mathrm{j}$; and to continue the hydrarg et ipecac. Finding at night that the blisters had not vesicated the skin, they were re-applied.

In the ensuing twenty-four hemra there was bome abatement in the violence of the symptoms; the limb was less swollen, and the
veins not an prominent ; pulse rather fuller and softer, with a flight moisture over the surface of the body. Continued hydrarg. et ipecac., and had the blistered surface covered with poultices of ground flar-seed. The next day the swelling of the arm bad inereased; the pulse was more frequent; skin dry; tongue brown but moist; the bowels had bean opened in the night. The blisteied surface over the shoulder and claviele was discharging freely, but the arm had not been fully vericated, and there was no diseharge from it. Dirceted another blister to be applicd siong the arm, and the hydrarg. and ipecac. to be continued.

The dav following, the patient was much the same, the blister on the arm well raised; continued medicine, and directed mag. nes. sulph. $\bar{j}$ so.; the blistered surface to be dressed with basilicon.
The salts operated freely, and the next day the pulse was fuller, but the skm dry and the mouth parched; both of which nymptorns were aggravated after the opening of the bowels two or three times in the course of the day. Potasse nitrat gr. $x$. were directed to be given with each dose of the hydrarg. et ipecac.; continued the same dressing to the arn and shoulder, sc.
The next day the swelling and heat of the arm were much diminished; heat nver the surface of the body less; patient more tranquil ; bistered surfaces discharging pretty freely. Stopped the bydrarg, et ipecac. and ordered instead mass. cceiul. hydrarg. gr, i. pulv. ipecac. gr 4 nit. potass. grs. $x$, to he given every three hours. Continue same dressings to blistered surface. On the following day the arm and shoulder were decidedly improved, and the constitutional syuptoms better, pulse fuller and softer, mouth and akin moist, torguc cleaning. bowels npened naturally. Directed the potase. nit. to be stopped, and morph. sulph. gr. 1.2 to be given with the mases, et jpecse.
From this time the phlebitis rapidly sul,sided, though for many days ather, the small veins of the fore-arm and hand were occavionally tirgid.
A most valuable report, embracing "a review of such interesting facts and doctrines," in relation to the diseases of children, as have been offered to the profession during the preceding twelve months, was presented and read by Dr. Condie. This valuable paper begins with a summary of the obset vations made on an epidemic of cerebro-spinal arachnitis, as observed in three localties in Ireland, at the commencement of the last year. Some remarks on tubercular meningitis are then offered, which are followed by the latest observations on cephalæmatoma neonatorum, by Dr. Doepp, of St. Petersburgh. The following extract will be found of interest :
M. Lasserre has recently shnwn (Journ. de Med. de Toulouse) that the fetus and new born infant are subject to cerebral hemoribage, as persons of a more advanced age. The effusion. he stats, presente exactly the same anatomicil characters. The firas case ubserved was one of uneningeal apoplexy, in which there were effused into the cavity of the tunica arachnoid nearly one hundred grains of viscid binod. The child was born dead at the fill peried. M. Lasscrre ascribes the effusion in thas case to pressure on the cord during labour. In the second case, effusion had taken place into the ventricles; the foius had reached five months and a bair, and was born in a putrid condition; the blood. which filled the whole of the four ventriclen. was in smoorth, polisiled, irregular, but moderately firm coagulum. In a third case, apuplectic effusion had occurred in the posterior part of the lefi hemisphere in a new born child. 'This wes fillowed by encephato meningtis. From the facts which have fallen under his observaton, M. Lasserre erncludes, that cerebral apoplexy does not give rise to the same symptoms, nor produce the same functional dis. orders in the new born infant as in the adult, and that it is not sus specdily fatad.
Trismus nastentium next comes under observation. This disease is exceedingly frequent in the cotton plantations of Alabama and Louisiana; and appears to be
the most fatal malady attacking the negroes in these states, the cases occasionally occurring so numerously as to simulate an epidemic character. White children are rarely, if ever, affected in the former State. The most remarkable pathological appearance is a vascular engorgement of the peritoneum, all that portion surrounding the umbilicus, in a circumference of one to three inches, being gangrenous. Besides this, there was also noticed engorgement of the substance and membranes of the brain at its base, and along the medulla spinalis, and cervical portion of the spinal marrow. The disease has usually manifested itself about the period when the umbilical cord drops off. It has, as yet, mocked all methots of treatment.

We extract the following treatment of hnoping cough, as possessing some novelty:

In the Annuaire do Thérapeutique for 1846. it is stated that the following mode of treating hoop:ng cough has been found very successful in the hands of M. Berger. In the first stage, the employment of a modorate course of antiphogistic remedies, purgatives, and repeated emetics, particularly of ipecacuanha, in combination with tartar emetic. In the convulsive stage, in whel the indication is to combat nervous irritation, M. Berger, being dissatisfied with the results obtaincd from the remedies ordinarily employed, was induced to administer the nitrate of silver, from which he has obtained resulte singularly heneficial. He prescribes it in doses of from a sixteenth to a twelfth of a gra'n, at first three limes, and afterwards four times a day; of courae the remedy should not be administered in cases, where the state of the digestive organs contra-iudicates its emplogment.

The paper concludes with a resumé of M. Chomel's observations on the diagnosis between rubeola and scarlatina; on polypus of the rectum, by M. Guersant; on fissure of the anus, by M. Duclos; on nocturnal incontinence of urine, by Dr. Morand; and on the efferts of emetics on the young subject, bry. Deck, a paper which has already appeared in this journal.

## PRACTICE OF MEDICINE AND PATHOLOGY.

The Convulsive Affections of Infants and Children. Read by nr. Marshall Hall, at the Medical Society of London, Monday, May 17, 1847.

The author began by alluding to the dangers attendant on infantile convulsion, to its consequences to mind, limb and life, and to the possibility of idincy, or liability to epilepsy, heing its result. He then made reference to the causfs, forms, and effects of such convulsions, and the mode by which they are incuced; and then proceeded more particu. larly to considerthem. He dwelt especially on-

1. The terms amployed to designate certain forms and symptoms of them ; and on one especially, laryngismus stridulus, which the author contended was no more a disease than cough was a disease, or "any other symptom of disease was a distinct disease." He said that laryngismus was not always stridulons, but depended on the same causes, whether it was or was not so; the most dangerous forms of it were those which were noiseless. He would assuciate this symptom, which was certainly one of great peculiarity and danger often, with contractions of the hand, which he would call chirismus, and with that of the foot, which he would
style polismus; the term spincterismus, too, might be applied to spasm of the sphincter ani, or neck of the bladder. "Let the termination in ismus he used only to designate a symptom, and that of a purely nervous or convulsive character."
2. The predisposition to convulsive affections, and larynfismus more especially, was very marked. The latter had been known to affect a whole family. The cause of such predisposition is obscure: was it hereditary? was it the etfect of locrlity, or emanations from the soil?
3. The causes.--No irritation of the cerebrum or cerebellum could immediatcly produce muscular spasm, as experiment had shown again and again. But irritation of the membranes of the brain might excite it, as appeared from an experiment which he had performed, and recently detaled. Irritation of the medulia oblongata, or medulla spinalis, produced the most frightul spasms. The incident nerves, when atfected at their origin in the cutaneous, mucous, or other tissues, were the most frequent source of the attacks. The condifion of the gums in teething, gastric, or intestinal disorder: matters retained in the lower part of the alimentary canal; the atmosphere ifself, especially when noith, east, or northeast winds prevailed; perhaps certain vapours;-these were all insisted on as being intimately connected with the production of convalsion, or that form of it called laryngismus. Strahismus, or the spasmodic condition of the hand or foot, might arise from teething, \&c.; but the larynx was very apt to be affected by tie north or east winds, or other conditions of the atmosphere. He also associated laryngismus stridulis with undue excitability of the spinal centre: when it seemed got rid of, it was very apt to recur. Hence the precaution of persevering with remedies longer than would otherwise be necessary.
4. The influence of slee. . - He alluded to the frequent occurrence of convulsions at this period; chiefly epilepsy.There was congestion of the nervous centres then; probably unusual excitability of them. Altogether, it produced a state firmurable to convulsive soizures.
5. Cerebral niscases.-On this the aumor forcibly insisted. He referred to the consequences of inflammation, tuhercular gramilation or tumour, and effusion at the base of the brain; and also to the congestion of pertussis.
6. Exrited reftex actions.- By far the greater number of convalsions were of a reflex nature. Laryngismus was most effectually a voided by temoving every exciting cause of reflex action. He would chiefly guard against four rauses of such action: first, irritation of the trifacial nerve, which took place in teething; second, that of the pneumogastric nerve; third, intitation of the spinal nerves; and fourth, the effects of the atmosphere upon the laryns, under cettain circumstances. The organs affected in a convulsive seizure were precisely those which its pathology would lead us to expectthe larynx, the sphincters, \&c. The author then called the attention of the Society to certain bronchitic, hepatic, and renal symptoms, and to the condition of the urine, - points which needed further investigation. He then dwelt on the effect of-
7. Emotion, passion, and showed how great and important was the part which they played in the affections he was treating of. He enforced the necessity of bearing them in mind filly in certain cases; he showed that they offen consfituted the real and only objection to the use of the gumlancet, which consequently should always be cauliously em. ployed.
8. The effects of augmented exciability were insisted on. States of the nervous system, induced by mild electricity, were compared with those occasioned by diseasc. The results of increase of excitability were pitered into-irritants then acted, which at other times would be ierrt. A change in the direction of the wind, even, was not without had conseguences. Strychnia induced a species of laryngismus. -

Emotion, hysteria, epilepsy, tetanus, hydrophobia, all affect. ed the larynx in a special manner.

The author next described those affections of the cerebrum which were consequent on convulsions,-the congestion, the effusion, the occasional paralysis, the risk of idiocy, \&c.He then passed on to the question of sudden dissolution, demonstrating how difficult it was to foresec it often, and stat. ing how frequently it happened when the patient appeared in progress to recovery. It was the resuli of common asphyxia, but not rarely of what he had called secondaty asphyxia, which he believed was closely dependent on the hlood of the coronary arteries being unduly arterialized.The remedies of asphyxia should be enforced promptly in such cases of sudden death.

Some obsetvations were then made on the diagnosis of convulsions, in which the transient, or permanent, or complicated character of symptoms, as the case might be, were all pointed out as modes of assistance in conducting the inquiry. The author drew attention to the post-mortem appearances, which varied as the disease was centric or eccentric, or according to the mode of death. These might be the results of inflammation within the cranium, or nothing found whatever but the appearances proper to asplyyxia.Lastly, he made some practical observations upon prevention and treatment; as to the latter, insisting on an accurate diaqnosis as an indispensable prelininary, otn a due attention to the complications of the affection, on the necessity of bearing in inind all the varied forms of irritation, and applying the appropriate remedies without delay, on having regard to the state of the patient during the time of sleep, on protecting it from cold air, \&c. And if he bad shown the application of the physiology of the nervous system to its pathology, be had gained the object which he had in view in bringing the subject before the Society.

Mr. Hind considered that the profession were much indebted to Dr. Hall for his researches on the subject of infantile convulsions, and for his explanation in respect to those cases in which the brain was involved in the cause, and where it was not. He agreed generally in the views of the anthor, hut should be afraid to lance the gurs so frecly and so often as Dr. Hall had recommended in some of his published papers. In the other plans of treatment recommended he fully concurred.

Mr. Barlow agreed fully with Dr. Marshall Hdll as to the ill consequences of cold in laryngismus strinulus. In some cases, a keen wind was certain to bring on the paroxysm.In a case related hy Dr. Hugh Ley, the first attack was produced by the application of cold to the head. He thought no one could contradict the correctness of the view which had been taken of the canses of the disease. He believed by far the larger number of cases were eccentric in their origin, and that depleting measures should never be used without much caution. Irritation of the trank of the nervus vagus produced refles actions, contrarily to what happened in the nerves proceeding to the limbs; and he thought that in disease, spasm of the glottis, either with or withont crowing, migint occasionally be brought on by affections of the trunk of this nerve, giving rise either to direct or reflux closure of the chotlis. In a case where Sir Astley Conper tied the carotid artery, inflammation and suppuration extended upwards in the course of the nervus vagus, and there was a cough like that of hooping-cough. Sir Henry Marsh, in his instructive paper on spasm of the glottis, had suggested irritation of the origin of the pneumogastric as a cause of the affection ; but the state of parts far remote from the nervous centres was mostly at fanlt. He had never been able to associate enlargement of the bronchial or cervical glands with the disease by way of caluse and effect, as Dr. Hugh Ley had done in a work which would ever be consulted for its abundant information in regard to the malady. In two cases he (Mr. Barlow) had found it connected with hydrocephalus;
in another, which be had examined after death, with bronchitis; in a fourth, which was fatal, he thought that the last paroxysm had depended on over-feeding. In the countiyhe meant the country properly speaking-the disease was acknowledged to be rare; and even in the crowded districts of towns he thought it rarer than was supposed. Out of 6879 patients who had hern admitted at the Children's Infrmary since Jan. 1st., 1846, there were only seven cases reported of this disease. In three cases he had observen the paroxysm produced by the act of drinking-a fact of interest, viewed as' an addition to those phenomena which connected laryngismus with the convulsive actions, of which it was certainly one. He would ask Dr. Hall if he had ohserved this fact.

Dr. Theorhlevs Thompson remarked, that in the majority of obstinate cases of laryngismus stridulus, hydrocephalus was either present, or threatened to develop itself. Sometimes convalsions were the result of simple irritation : in other instances they originated in inflammation.

Dr. Cletterbeck thought that the brain was always inrolved in cases of convulsions, and that it suffered at these times from inflamation. The brain was a complicated orsan, and various parts of it performed various functions.He agreed in the treatment recommended by the author.

Dr. Reid did not tind that dampuess of the atmosphere was a cause of laryngismus ; on the contrary, the affection was rare in damp localities. He had some doubts respecting the prejulicial infuence of a north-east wind in these cases, and mentioned two instances in which it had no such had offects. He bad never seen a case during the time the infant was suckling.-London Med. Gaz.

Effects of Suphilis on the Fatus in Utero.-South London Mediral Sociely.-Moy 27/h 1847.-Mr. Lodge brought hefore the notice of the Society, the "Effects of Syphilis on the Fetus in Utero ;" remarking that he wished to elicit discussion on a subject of so much importance. He referred to the following beads: viz.-

1. Abortion occurring from a syphilitic taint in one or other parent.
2. The death of the fortus, although abortion does not occur.
3. The fact of the fetus being infected in utero, although such infectinn is not evident until atter birth: and
Lastly. The appropriate treament.
He fully canvassed the opinion of authors on the above points, and stated, that, from his experience (and he was borne out by the majority of authors), he belic ved that syphitis in one of the parents caused the death of the fietus, and ahortinn was the consequence. He was decidedly opposed to the opinions of those who think that the mercury exhihited was the cause of abotion, inasmuch as he considered it the only means of avertiug it. His practice was to give mercury to the mother, so as to produce gentle salivation, when many successive dead clatdren had been born, and there was no other evident canse for the repeated abortion : and he did this although neither parent shewed any signs of syphilis. He related three cases which had occurred to him during the past year. In the first case, nine successive abortions had occurred ; in the second case, four ; in the third case, frequent abortions had taken place; and in all three, after a cautions and continued use of Hyd. c. Crata, a living child was the result. In the first and third cases, secondary symptoms appeared in the child a few weeks atter hirth.
Dr. Murphy did not helieve the habit of frequent abortions curable by mercury could be attributable to a syphilitic taint. It was, in his opinion, extraordinary how so intimate a connection as that between the mother and the feetus in utero could exist, without the syphilitic prison, which was circulating in so virulent a manner through the vessels of the fretus as even to deprive it of life, being communicated to the
mother; for it is well known the mother, unless infected by the father, shews neither primary or secondary symptoms. In reference to Mr. Lodge's first case, it was mhikely the mother should not have the disease, and yet nine children die in utero. Supposing the feetus to be contaminated on the father's side only, it would then be necessary to salivate the mother during each pregnancy ; but this is not contended for. He believer, therelore, that abotion was unt caused by syphilis, but generally depended on some constitutional cause. There were two forms under which the appearances termed "syphilis" in infants may present themselves:-those which present themselves soon atter birth, and are casily curable by mercury; and those which arise from contamination by the nipple of the nurse. These latter are due to a disease called "sibens:" the symptoms are all external; the constitution never suffers, and they are curable by nitrate of silver or sugar of lead lotions, and not by mercury.

Mr. Lodye did not mean that syphilis is always the canse of abortion, although it is hy far the most frequent one.

Mr. Hicks had ohiserved several cases, which he had traced to syphilis, and the women had afterwards borne healthy childreu. He almited to the peculiar characteristic snufles in the nose, and the aged appearance a child has, when affected by symitis, and also to the fact that the use of tercury renders the children robust and healthy. In reference to Dr. Murphy's opinion that the symptoms thus affeciug children are not syphilitic, he would ask him if he had seen coppery blotches ever occur without syphilis preceding? and if so, and these secondary symptoms were produced by mercury, why should they not necur after the use of mercurv for ordinary afections.?

Dr. Murphy. in reply, stated, that the mode of exhibiting mercury in indmmatory and syphilitic diseases was extremely different; in the latter being often given in a secret and careless manner: therefore the two cases were not analogous.

Mr. Hilton said that Dr. Murphy had not given a satisfactory answer to Mr. Hicks' question, "If coppery blotches were cuer observed after the use of mercury, without preceding syphilis?" I!e thought the majority of the Society would agree with Mr. Lotige in his opinion of such cases, and that the treatment hy metcury was eminently successful. He believed Sir 13. Bindie's plan of using mercury the best.

Dr. Murphy thought that, in the cases referred to, the children would die unless mercury was nsed; and, therefore, he should not touch on the treament; but it wac a doctriue that conld uot be too emphatically condemned, that because curable by mencury, their disease was necessarily sypblitic.

Mr. Longe stated, in reference to the treatment ol syphilis in rhildren, that he metcly gave mercury as an adjunct, preferting the indine.

The President remarked, that, although it was difficult in say how the syphilitic poison acted on the foetus in utero as to cause its death, yet it was generally agreed that a mescurial treatment prevented ahortions in such cases, and also cured the child, when the symptoms appeared after birth.

Mr. B. Evans believed there might be a syphilitic taint in the father, so as to cause abortion, and get the mother should neser have heen affected by either primary or secondary symptons, and related a case where the mother ahorted tive times, and, mercury being given to the father, the mother afterwands hore a living clild.-London Medical Gazelle.

On the Treatment of Chronic Cutaneous Affections iny Arsenio, as proposed by Thonas Hunt, M. R. C. S., \&e.The employinent of arsenic in chonic cutaneons affections is no new mactice, hut the directions given for its use by Mr. Hunt, are very different from those generally laid down by preceding witcrs, and appoximate rather to the method foilowed in prescribing alterative doses of mercury, where the
intention is to produce an alterative action, without affecting the system so decidedly as to bring out the more evident effects of the mineral on the salivary glands. Accordingly, in the same manner as the tender state of the gums, induced by. the prolonged action of small doses of mersury, becomes at once an evidence of the system being hrounht under the influence of the inedicine, and an indication for the diminution of the dose, so in like manner is the effect produced on the conjunctival membrane of the eje by the lengthened use of small doses of arsenics, an evidence of the system being brought under the influence of this remedy, and an indication also for reducing the dose.
The usual mode of administering arsenic is, as is well kuown, to commence with very small quantities, gradually augmenting them until the stomach shews that a further increase in the dose of the poison can no longer be borne, and the tolerance of the mineral is exhausted. Its exhibition is then stopped, and if the disease tor which it had heen given should lail to be alleviated, the remedy falls into disrepute for what has rather been an error in the mode of administering it, and the case, usudly one in which numerous other remedial measures have been previously tried, is pronounced otstinate, intsactable, perhaps incurable.

One great merit of the practice recommended by Mr. Hunt is, that it accords with the rationale of the action of other medicines of a like character; and we are so much in the habit of using medicine empirically, to produce an immediate and specific effect, and are so little acquainted with the physiclogical action or modus operandi of almost all of them, that any contribution to our knowledge of the action of medicinal agents on the general system is fraught with insturction and benefit, the ultimate results of which indeed can scarceiy be calculated.

The administration, then, of arsenic, in these minute doses, (five drops of Fowler's solution, three times daily, with, or shorlly after, the meals, seens well calculated to insure its absorption and diffusion through the system. Given in this manner it may be expected gradually and safely, as far as the tolerance of the mincral can be established, to induce those alterative changes in the blond, and throuch that on the organism, which its individual properties enahle it to effert. The point of tolerance is. it seems, indicated by the action on the conjunctiva, an inflamed state of that membrane being after a time induced. The dose of the mudicine must then be lessened, perbaps, for a time, the use of it altogether discontinued, to be again resumed in smaller quantities, and its influence kept up for weeks or months, until, as in the case of cutaneons diseases, the morbid disposition is counteracted or destroyed hy the prolonged use of the remedy. This is, in hief, a summary of the history of Mr. Hunt's cases, and among those special affections which bave yielded to the constitutional influence of arsenic thus induced, the most satisfactory instances will be found in those well-known opprobria medicinæ,-prurigo, lepra, psoriasis, eczema, acne, and even lopus.

The failures of arsenic as an internal remedy for cutanenus affections is attributed by the author,-1st, to the syphilitic characters of many of these casps being overlonked, -arsenic is prescribed when mercury is wanted: 2 nct, in its being administered during the inflammatory or febrile stages of the disease: 3rd, to the exhibition of the remedy on an empty stonach, when it is frequently ohliged to he atandoned from the g astric irritation excited; 4th, to the doses in which it is ordered heing tuo large, and the intervals too distant; and lastly, the innst common and most serious error of all, the giv:ng it in gredually increasing doses.

The properties of arsenic to be kept in view in its medicitul action on the system are, according to the author,-1st, its cumulative character; hence the necessity for avoiding the common practice of gradually increasing the dose to the ytmost verge of toleration by the stomach. Znd. The sudden
arrest of diseased action often observable under the administration of the maximum dose. "A full dose being administered at regular interval:, in a few'days (or possibly weeks,) a pricking sensation is felt in the tarsi, and the conjunctiva becomes slighty inflamed. At this crisis the disease is brought under arrest, and generally from this period appears to be shorn of its strength. The return of healthy action in the cutaneons ressels often become visible, and is sensibly felt by the patient, on the very day on which the eyes hecome suffused with tears." 3id. The effect of an over-dose on the nervous system, producing for a lengtiened period subsequent intolerance of the medicine even in the smallest doses. 41h. That while in large doses it irritates the bowels, in small doses it soothes them, tending to check tie diarrhea and gastric inritation, which frequently accompany skin diseases. And lastly, that the susceptibility of some individuals to the influence of arsenic, is so great as to amount almost to complete intolerance; and that yet in persons of this description, suffering under diseases of the skin. in very greatly reduced doses it proves equally heneficial in curing the disease, as in those of ordinary susceptibility.-Provincial Medical and Surgical Journal.

Case of Spmminnenus Gure of Anrurism of the Arch of the Aorta. By Dr. O. B. Behlingmam.-Mary Pierce, æfat. 64, a conk, was admutted into si. Vincent's Inspital, under my care, laburing under gangrene of the sight hewer extremity, which had commenced six weeks previonsly upon the anterior surface of the tibia, arid had extended gradusill until the museles of the leg were tata hare, and the cavity of the ankio-jeint was exposed. and the gangirne had reached to withit a few mehes of the knee before stie died.

Her chese was examiurt while in bonpital, but nothing unusual was observed. cxcept a donthe sund, similar to that of the heart. which was andible below the right clavicle, as if the sounds of the nrgan were transmitued be wind the usual limits. The action of the hear was perferty regular and natural; these was no inareased impmer, and no inhormal some, nor was there anv difference in the stiength of the pulae at the wrints As she sufferd exerssive pan in the limb, and comprained of nothing else, she was not teased by a unre minute examination of the chest, par. ticulariy as her temper was mit the very best. Iascemined from her friends that she never was qualified to become a tecturaller, that she had had congit, and that she had oceasionally suffered from palpitation, bus it had never prevented her from following hor avoration. When questioned herself, ste denied taving ever labmed undor any chest affection beyond a trifling cough.

On a postmortem examination, an ancurien of the anta was found, which sprong from that part of the arch where the ascend. ing joins the trancerse portion, and extenced acruss the sternum to the right clavicle, where it formed adhesims to the right lang. It was ahout the size of the clusfd hand of the subject, and was completely filled with comentric layers of fibrine, which was vory firm, and cvidensly of some standing. The aorta was dilated, its inner erats moch distended with numerons ossific patehes, and the orifier by whelh the anewismal sac had comounicated with the antn would acinit the point of the finger. Tha heart itself was athout the normal size; the left ventride was hypertrophied, its cavity diminished in size, and the left anriculoventricular ofifice was smaller than natural ; the right auriculnveatrienlar orifice was nomal; the valves were bealthy ; both enronary arteries were ossified; the femoral nod popliteal arterics of the rffected side were diseared, and the popliteal vein contained a frm corctham. The lungs were healthy.-Dublin dic. dira! Press.
***'The statement of so careful an observar as Dr. Bellingham musi of couse have great weight ; but wo should have been more $\mathrm{y}: \mathrm{tix}$ fied with the ahove case, had the condition of the fibrine at the mosth of the sec been intio axprersiy deseribed. The complete filling of an mencismal sise with frmadherent lavers of decolorized fibrine, the camal of the vessel still romaining pervious, certainly foms one of the principal features in a process of spontancous care; hat, so long as there remain any interstices betweea the fibrinous layers still exposed to the current of the
blond, or any irregular surface upon thove layers wor which a coagulum may be depositcd, a cure camon be said to be effected; for, at any period, a quantity of fluil blond maty incinuate itself hrtween the layers, breakiog up their conncctions, separating them extensively, and thus prodncing renewed ditension in the me, or a massive congultum may be diposited over the rourtiened enface at the mouth of the cavity, and will then, by its resistance to the current of blond. tend to increase the wideuing of the dis. eased vossel at that print, and in press the rntire sace outwards against some weighburise serueture. We haveliad frequent opportunities of ohserving both of these processes in various degreps and stages. An ancurism of the ascending anta eationly be stated to be cured when ine orifire is emmpietely oceluded by a firm laver of dense fibrine whici is perfectly lecol ond continutous rith the liming membrene of the cessel, and which dous not present any irregularitios of uarface that m:y produce at terdener to infiltration or deposit of blrod. An appearaner: of this kind has toren several times ofaserved in very small aneurisme of the aortic arch; but we are not avare that haruer sates have heen found oceluded in this manner.-Ev. Gis.-Lioniom Nedical Ginzette.

## SURGERY.

On the Rubeforient and Counter-Irritant Efferts of Potassa Fusa, or Vegetable Caustic, in certain forms of niscase. By Johs Barses, M.D. of St. Lonis, formerly Lecturer on Botane, in the Acalenty of Natural Sciences of Philadelphia, Professor of Ohstetiocs in Irefferson Medical College, Philadelphia, and Member of the Board of Medical Censors of the State of Mississippi- Havine, in a large number of cases, employed the potassa fusa, or vergloble caustir, for upwards of twenty-five yars, in my practice, in Philadelphia, Mississippi, and St. Lonis, as a powerful rubefacient and counter-irritant, in some forms of diseased action ; and which mnde of using this remedial agrnt, so far as my reading extends, is not explicitly described in medical works, either practical or clementary, it being regarted hy most, if not all writers, exclusively, as a powerful ssorofic for the destruction of parts requining cemoval; and believing that its employment, in the manner to be describod. and in the forms of diseased action to be designated, has been pre-eminently successful over other modes of treatment in like affections, at least, so lar as my own observations extend, I deem it due to the profession, to present, for the ronsideration of its members, the results of my experience in the emp, yment, in the manner designated, of this article of the materia medica.

In the different forms of whitlow or parouychia, and in all the stages of each form of this painfil affrction, I have used this remedy very extensively and with the most satisfactory results. If applied cally and hefore deep-seated suppuration and ulceration have taken place, the disease may be promptly removed; and, even in later periods of the disease, when suppuration has comenenced, the mischief in many cases may he quickly arreved, and the patient's sulfering greally mitigated, and its duration shorfened. Eren in those cases, in which, owing to newlect or mismanagenant, the deep-seated suppuration and consequent ulceration have been extensive, and the pus has made its exit, causing great injury to the surrounding parts. the chronic inflammation and consequent emlargement of the diseased tissues are essentially benefifted hy its application; care being taken to avoid those parts where the cuticle has been destroyed.
I do not pretend in assert that in all cases the early application of the veget:ble caustie will supercede the necessitv of an operation to procure an exit for the confined pus. but this much I will say, that I have seen a great many cases get well under its action, which I believe conld not have
heen cured without an operation, had any other mode of treatment been adnpted.

This remedy is especially adapted to the treatment of those cases of whitlow in which the discase has its seat in the vicinity of the metecarnal bones, as the operation of cutting down to the discased lissucs in this part is rendered hazardous, owing to the situation of the circumflex arteries of the hand.

My mode of using the vegetable caustic in cases of whitlow, or paronychia, is to take a poltion of a stick of it, and, wrapping a roll of paper around oue end of it, to protect the fingers from its action, 1 slightly moisten with water the other end, and wh it over the smlace of the diseased and adjacem pats for a few seconds, and until the patient complains of a painful burning sensation-if this burning sensation very quickly subsides, I frequently re-apply it for a short time. In most cases, however, the harning sensation lasts for several minutes, which I deem sufficient for the time, and patients often complain of its great severity.

To aroid all danzer of destruction of the skin, 1 attend, carefully, during its application, to the sensations of the patient, and desist so sonn as much pain is experiencert, and carefully remove, with a piece of linen cloth, any portions of the vegetable caustic which may remain on the surface to which it has been applied.

These applications of the vegetable caustic are to he reneated as often as the exigoncies of each respective case may demand. In some cases the ayplication may be made daity, and even oftener; in other cases every other day will he sufficient: while, in some cases, once or twice a week will be as nffen as the diseased parts will admit of its application. Duine the employment of this remedr, such other Ireatment as the case requires should be adopted in connexion with it.

In the treatment of Venercal Bublo, l have derived great benefit from the application of the veryetable caustic in promoting its 1 :spersion or absorption. I apply it. repeating the application as offen as may he necossary, nver the whole surface of the skin covering the polarged gland, and for an inch or tuo beyoul, is the same manner as directed in the treatment of whitlow : and its use when applied to the delicate skin of the groin is usually succeeden hy a crop of mimute pustules.

In a larep number of cases, I have very happily effected dispersion of the huno by the use of this remedy, and in those cases where notwithstanding its application, the hubo has gone on to suppuration, and thereby greatly mitigated the sufferings of the patient.

If deemed neressiry, the application of leeches may precedte the use of the reretable canstic, and during its emplorment, inercurials may he taken internally, and mercurial frictions be made to the inside of the thighs and the bubo itself, dresed with stramonimm ointment, or any other appropriate application. In many casps. linwever, if the bubo be not very large a fow applications of the vegetable caustir will be suffirient for its enfire removal, withont the use of any nther remedy, hut prodence, at the same time, dictates the exhibition of some alterative medicine for the protection of the constitution from ulferior consequences, which may arise from the rennyeal poison.

As respects the ure of the vegetable raustic as a rubefacirnt and cnunter-irritant in the forms of disease before mentioned, I feel no hecitation in recommending it as a most efficient remedy. having fully tested its virtues in numerous cases in a lono course of practice.

I have no douht the veretahle caustic will be found an invalualile remedy in almost all cases, in which it may be desirable to produce prompt and eficient influence by rubefacients and counter-irritants.-St. Louis Jour,

On the Employment of Issucs.-By Dr. Brownless.-After a povere but just criticism upon the ordinary method of comploying insues, the anthor gives the following account of his own notions upon the subjec. He ohserves:-

I would recommend, instead of ueing the remedy in the manner which I have condenned, in the foregoing paragraphs, a method which, as I shall prescmily attempt on explain. seems to have season on its side, and of the great value of which I have fully eatisfied myself by experience.
Issues should be made of moderate size, and before the efiects of the one first made are lost: by the process of repair of the ulecer being completcd, another shonld be made at a distance from the former, in as to act upon another part of the juint affected; (for here I may be allowed to mention that his is frequently reguired in joints of considerable size, an issue on one side of a joint often relieving the side to which it is applied, but secmine to have lithe effect on the part of the joint remote from it.) Before the ulcer made by the last formed issue is nearly hrated. a fresh portion of the akin should be destroyed by the caustic, and again and anain Rhond this process be repeated varying its position around the joint; and thus should a regular diversion from the diseased part be kept up.

Therc may be reason in sone cases for not carrying nut this flan to the Jrtice, as regards the destruction of fresh portions of ekin on eachapplication of the canstic. In such rasec, or where the patient has grest objections to it, a lew phot of skin need not he destroyed on each oecasion that the camatic is used, but Sir B. Brodic's plan of frequently rubbing the old sore with cauetic may be adopted; funt, as a general rule, I do not consider it en efficacous as the dentruction of a fresh portion of skin, uor is the benefi F) lasting, Hud consequentiy. the caustie. requires to be anplied much oftener thatn where fresh skin is dectroyed. Undouhtedly the latter is attended with more pain; hut its duration is slort, and it is unt followed generally by the irritative conserguencesenf hiipters, and some other counterimritams, w, I may add, of issucs. kept nuen hy peas and pressure. Scars may be regarded as one inconvenience arising from this plan; but if we can obtain greater henefit to diseased joints by the application of the caustic to fresh portions of the shin, the sears appear to me of rivial importance, even in ife case of the fair sex; for the joints commonly the scat of the discase, are, for the most part, elothed, or at any rate may be kept on without ally great drawback to the porsonal charma of ant roung fads.

The mitnduction of peas ar nther bodiess for the parperse of keeping issues open. I would in me case recomment. If from any chuse it be judged fit to feep rpen the same issor, iet it be touched with caustic, but wht kept open, even in this way, for any great length of time, or it will become esmparatively uscless.

During the treatment of a very considerable number of cases in Whell I had the opportunity of comploying isues in this way, ] found it to be the mons efficacious node of using them; and the principle, although ong carried so far, has ben folly confirmed in my mind, in a very extensive field for observation, by watehing attentively for several yeare, the paticuts under the care of Mr. Vincent, it St. Bartholetuew's Hospital.--Lancet, 1 pril 21.

Cure of Nacus.- In flat nevi up to the size of a crown piece, lint steeped in pure liquor plumbi is fastened over the part with a bancage, and wetted by fresh applications of the lead, without frequent removal. Atter days or weeks, the sweiling becomes whiter, flatter, and firmer; som afterwards, hitte, firm, white spots form on the surface, and the cure is certain. By means of a solution of alun and compression, nævi so large that extirpation would have been impossible have aiso been cured. It may he necessary to keep the remedy constantly applied for six months.-Dieffenbarle's Operative Surgery, and Half-Yearly Abstract, Vol. IV.Prov. Med. Surg. Jour.

## MIDWIFERY.

Purpcral Aucmia; or a prestiar andmis cmodition, occurring in. grstating and luctating Females.-By I3. N. Bennetr, M. D. of Bethel, $\mathrm{C}_{5}-\mathrm{My}$, depgrn in the proeent paper is te des-
crite a certain morbid state, which I concrive to be peculiar to females who are either pregnant, or in conditions consequent to pregnancy ; in slort, a morbid state resulting only from the procesecs of reproduction. Withina few years past, I bave met with numerous cases of the character which 1 ann about to deseribe, and my description will he drawn chicfly from observation, as ? have never seen in the Jompals or elsewhere, any accurate and compinte account of this discase. Soveral articles have appeared at different times in the Amerima Journal, under the head of "Nursing Sore Mouth," which give a very correct defcription of one of the most conmion and decisive symptome of the affection. namety, a peculiar imflammatory state of the huccal and lingual muneus membranec. One of thesic articles is by Dr. Backus, of Rachester, N. Y., another lyy Dr. Tavhor, of Monticello, Florida. An extract from a maper by Dr. F. Halc, jr., was aleo publisisicd in the same Journal for April, 1842. I may refer to these articles in the sequel of this sanger, only saying for the present, that the true pathology of the disease is nut, in thy opinim, recognised in cither of the pajeres mentimed.
According to my experieste, this affection frequently com. mences from the seventh to the cighth minth of gestation, a pernd at which the development and srowth of he fethe are minst rand. and draw most forethly upon the vital powers of the mother. The fomale hegins in assumc a pallid apporance, not umbe the anmenic pallur cummon to carlicetic conditions; hut this appear. ance is not al first accompaned by emaseiation. The appetite in oficn impared, and digestiom rather difficult. accominanied with gastralyia, cepecially after taking certain articies of dief. There is a decided tendenicy toward diarthea where the gastric symp. toms are marked. The fiunction of digestion, and the apyente may, however, at inis perioci, renain unimpaircd, and the female ouly complain of lassitude, neuralgic pains in different pmrts of the hodv and some slight cerchral symplous commen to all anmmic conditions. After a contimanice of this elate for a longer or shirter perind, it is not unemmunit to withess the accurrence of cdena. This may supervene cilley before or after delivery, and is confined to mo particular part of the body ; it is very generally perceptible in the facc. It may he either slight or excossive. I have known one instance in which the medenatons effugion was accompanied by alarming symphums. In this case the orderria was excessive, and was attended by accidents on the part of the respiratory organs; namrly, difficulty of hreathing, respiration accompanied with humid rails. and inability to lie in the recumbent posture. The lady was delivered of twins, and notwillstianding the 'emporary increase of all the symptoms, after this event. stio finally recovered. This cedema hat no specink charaoters, and is In all appcarance, pilnitur to that which occurs in other aurmic stales.

Accompanyint the armptoms just descrihed, or immediately succerding it, I have frequently seen thic "Sore Mouth," pravions to delicery. It is this symptom which I look upen as pathonnomonic of the affection in guertion. The inflmmation of the huccal und lingual mucous memhranes, has claracters which I helieve to be prenliar, and which I have never seen in any other disease. Upon inspection. the prite alfeled appear dry and polished, of a nink colose if different slindes, somectimes very neisly approaching a red. while the wher portions of the mueons meminane appear pater than natural. The inflamed parts are ussally the edpes and inferior purfece of the tongue, the surface of the lower lip in centaret with the teeth. and that of the checks. The parts thus affecled are painful and excessively tender. The fres indication of the de velopment of this inflamuation is very correctly described by Dr. Taybri. There is "a sensation of sorencss and heat of the fongu" and hining sermbrame oitice mouth, accompanied by a discharge "if a bin walery fluid." "The patient compares the phin and heat of the mouth to the sensation produeca by scalding." 'The female is compelied to avent those articles of dict which contain much salt, ot spice of any kind. particularly pepper. Sometimes cven all molini foud.
At a later period of the disease, you will frequently soce, willins the limits of the pink patchee, especially upno the edgce and iuferior surtace of the tongur, and uph the labial membranc, a number of pustules or rather vesieles of sume size, containing a milky flinid, which pustutes. semetimes derecticrate ints, sutall uleers with raised ediges, which arc exquisiefy !euder. At other tumes, the fluid would arem to have been reabsorbed, or discharged without leaving an open ulecrated surfacc. In nny cense the ulcerations uccurring in this disease, are very distinct from those.
of aphthous affections. I may remark, in passing, that this inflammation, particularly in its first stages, has appeared to me very superficial, and that it maternally changes the character of the epithelium, which becomes thickened and of a smooth polished appearance. This inflammation is not peculiar to the month, it sometimes accurs upon the external organs of generation, and occasions a very troubleame soreness and paritus." I have known but two instances of this kind. In these the mouth, and labia were affected conjointly.
While the mucous membranes of the mouth, Ser., are in this condition, there are also increased symptoms of gastric disturbance. All stimulating and ucrid ingesta produce a lively buming sensa. tion at the epigastrinm. The bow ls are sometimes constipated. but usually imenoderately toose, the discharges being thin and watery. In short, the whole gaser-intestinal tabe gives evidence of severe functional disturbance, if not of anatomical lesion.

It is very commonly the case that the "Sore Mouth" does not ocenr until after delivery, and sometimes not milil after lactation has been, for a length of time, fully established. It then, together with the gastric disturbance, (and I believe the two are inseparable, roustutues the chicf evidence of the morbid state. The affertion of the manth cannot, hawever, as sappoed by Dr. Hale, be "dependent upon same pernlar sate of the system, prodaced by the fecreton in the mammat" I have recently attended a lady, who in the last montio of her pregnatte $y$, and for tie first time, suffered very much frum the " Sore Month," But who has not felt it since her delivery, being a period of three momthe, and, notwithatanding, whe nurses hor chald, and has an atmondant secrethon of milk. The following ease, which I shall briefly relate, and to which I have hefore referred, also militates forcibly against such a supposition.
Mrs. , pregnant with her first rhild, passed through all the periods of gestation in remarkuble health. Daring the period of lactation, she suffered from the affection of the mouth. In less than a year she became again pregnant, and as the event proved. with twins. About the seventh month, she began to show the primary symptoms of the puerperal anmemia. Slie soon becane codematous; the cedema was general, and accompanied by the alarming symptoms which I have previously mentioned. She had also at this time the "Sore Mouth ;" subsrquent, huwever, to the first appearance of the cedem.. Immediately after delivery, there was an exaggeration of all the symptoms, und her life appeared in eminent danger. There was nu spcretion of milk whutever, and her infints were nourished by other means. Aiter a period of some months she recovered her usual heallh. L'pon her next pregnancy, at the same period, she presented the same teain of symptoms, though in a minur degree. Sha had, however, a more or less profuse diarrhea, during the whole of last month. The affection of the month was as severe as in her former pregnaney; the eedema much less. After delivery no immediate change in her symptoms. There was a slight speretion of wilk, but it was thin and watery, and her infant appeared to suffer from its ingestion. She censed to suckle it in two weeks after its birth. This lady has recently been again delivered of a healthy child, after passing through her pregnaney in good health, and is now suck. ling it, without suffering any particnlar monvenience. She says, she occasionally feels the symptoms of "Sore Mouth."
I have never observed in this complaint any decided febrile symptoms. The pulse has appeared to me very similar to that of chlorotic anremia. I have not practised auscultation in these cases, with a view to discover the cardiac and arteria! bruits uavally found in chlorosis. No case has ever occurred under my iminediate observation, which progressed to a fatal termination, and I can, consequently, give no accurate account of the uftimate effects of the disease. Dr. E. P. Bennet, of Danbury (to whom I was indebted for many observations of this peculiar form of anæmia), has, however, recenlly seen two fatal cases, in bith of which, he informs me, there was profuse hemorthage from the mouth and nose, as well as from the bowels. One of these fe: males had been in perlect health previous to conception. She died in a few weeks after her accouchmeni.
From the observations which I have made of this conditon of pierperal females, I am ted to consider it a disease, consisting primarily in a lesion of the circulating fluids; a lesion followed by symptoms known only to the puerperal state. Fur while this possesses some of the appreciable characters common to all anemic conditions, yet it differs from them all in certain of its
more prominent features, and especially in that of the inflammatory affection of the mouth.

The modern researches upon the blood have shown conclusively, that pregnancy exercises a marked mfluence upon the composition of this fluid, the most notable characters of which are diminution of the red globules, increase of the proportion of water, slight increase of fibrine, diminution of the albumen of the serum, \&e. From the analyses made by Drs. Berquerel and Rodier, of the blood of pregnant females, thoge gentlemen derive among othere, the following conclusions: that, "in a certain number of cases of pregnancy, when it is not yet advanced, and has exercised no very rensible influence upon the organism, the composition of the blood is not altered; in proportion as prognancy forms its ter mination, the blood is in general modifird," (Gazette Medicale de Pario, 1844). The modification observed by them, are those just mentioned. It is an exaggeration of these modifications which, I suppose, constitutes the primary pathological condition, and thins the physiological stite of the pregnant woman becomes the transition to the pathological one, the symptoms of which 1 have endeavoured to describe. But these changes in the proportion of the constituent principles of the blood, considered isolatedly, differ very lithe from those which necur in other circumstances; in fact, they are very similar to those occurring in every anmmic state. Why then the symptomatic differences, and special anotomical expressions of puerperai ansemia? It is reasonable to suppose they are the result of the specifi: impression, made by the process of repraduction, through the wedinm of the nervous system, upon the entire organism, and more especially upon the assimilating organe. This view sceme the more rational, when we consider that, while it is the stomach which suffers, the greatest sympathe. tue and indced functional disturbance in the early periods of pregmaney, it is also this organ and its dependencies, which manifest the most prominent lesions fiom the disease in question. The fact that there is fiequently mo appearance of this difficulty, unth a certain period after the commencement of lactation, is to my mind only an, ther evidence that its primary cause is the impoverishment or the blond from the establishment and contmuation of a function consequent to that of gestation. The vital fiuids already somewhat cxhausted in the nutrition of the fetua, and by the losees consequent to delivery, are mable to sustain any further drain, without inducing true patholugical changes in the solids; and modified by the speenfic impression of the reproductive process upon the economy, which is contimed even in lactation, these changes still retain a special stamp.
As this paper has already reached some length, 1 shall defer the consideration of treatinent to a future number, when I may also refer to some facts which further illustrate the pathology of the direase-New Yock Jour. of Med, and Collateral Neimene.

Effects of the Eirgot of Rye on the Parturient Femule and her offisping.- With the virw of throwing some further light on the action and effect of the Ergot, Dr. Samuel L. Hardy, of the Dublin Lying.in Hospital, has kept accurate notes of a large number of cases, in which this dug has been admmistered during parturition. Scveral of his observations are of considerable value.

Time at which the urtion of the Ergot on the uterus commen. ces.-From comparing tablew which the author has drawn up, it appears thet, in some cases, Ergot acts on the uterus, so soon as seven minutes after its administration, whilst in others, a much longer period of time is required; but in the generality, from about ten to fifteen minutes may be stated as the average. In those cases where the children have been expolled alive, Dr. Hardy has always observed the action of Ergot on the nterus, to commence within twenty-five minutes. On the other hand, when a lunger period than this elapses before the uterus takes on action, the use of instruments has been neecssary to perfect the delivery, or the children have bcen dead born. In some instances, the Ergot has produced in the uterus a kind of tonic contraction, without any effective cxpelling pains. In accordance with what has been observed by others, the author has noticed that, in those cases where the Ergot has acted beneficially, its exhibition is followed by strong expulsive pains, which gradually increase in frequency, so that, in fact, they may be said to tun into each othes, there being no distinet interval between them.

Effect on the Pulse.-In nineteen casps of those whichiDr. Hardy has recorded, there was a marked diminution in the fie.
quency of the mothers pulse, following the adnminstration of Ergst, und this effect generaliy began to take placo foom atont fiftern minutes to half an hour. In all these instances where the depresaino of the palse occurred, the fetal heart underwent a similar change. Hence the author is led to inguire, is Ergot a safe remedy in a case where the woman is greatly refuced by hemarnage arising from relaxation of the uterus atter delivery? He mentions a case bearing upon this point, where a draining had continued for several hours after the expulsion of the placenta, by whirh the patient was greatly weakened; the usual dose of powdered Ergot was given, and was followed almost immediately after, by a most ularming depressis, requiring the ndministration of the most powerfui stimulants. In several of the cases, the depressed state of the circulation enntinued for several days, not withstanding, in some instances, inflamination of the uterus followed delivery ; and the uterine thinuar not unfequently remained mach larger than natural, even where there was no reason to suspect the pre. sense of inflammation of that organ.

Effects of Ergot on the fretal heart,-The effects of Ergot on the fertal heart, is still more remarkable than on the maternal pulse, and, in a practical point of vew, deserves n much more serions investigation.
In a great majority of the anthor's cases, a diminntion in the fertal heart's pulsations followed the administration of Ergot. The period at which this effect begins to be produced, varies from about fifteen minutes to half an hour, sometimes a litle soner, and occasionally at a later period. The nast commona effet, and usually the first the anthor has observed, is a dmmution in the frequency of the pulsations; this is succeeded, after some time, by un irregularity in its beats, whob irregulaity cominues, more or less, until the sounds intermit, and at length, after a variable period, becane quite inandible. Dr. Hardy has been led by his ubservations to the practical inference that, in those caspes where the number of the fuetal heart's pmisations have heen statily re. duced below 110. and at the same time, with intermissinas, the child will be rarely, if ever, saved, altuongh its delivery' shonid be effected with the greatest possible speed. But the mere depres. sion of the fretal heart blow 110 , whthout intermissions, is not, in itself, sufficient to canse this result, as instanees have ofcurred where the nuniner of puisations has been still more redaced, (in one case as low as 56,) and yet by speedy delivery, and adoption of the usual remedirs, the children have been saved. But innone of these cases was there a steady, distinct, and well-marked intermissian. The knowledge of thesefnes joints ont the necessity of watching chosely the state of the fotal heart, tfer the adminstration of Ergot, as delay beyond a particular time cannot be allowed with impunty ta the life of the child. Should the case, in other respects, be oligible for the application of the forreps or vectis, in order to save the child, it must be had recourse to within a certain period, which can only be known by the eareful use of the sethoscope, The anthor's observation fully coincides with thuse of Dr. Beaty, who fixes the limit (beyond which the child will rarely be born alive) at two hours. 'To this rule he has met with but three exerptions. Bat death of the foelus may oecur long before the expiration of two hours. In two instances, the children were lost, alhnough only twenty minntes in one, and twenty-five in the other, had passed from administration of the Ergot to their expulsion. In these instances, the depressing effects of the Ergot are so grent, that frequenty after birth, a consider. able time elapses befure the children can be perfectly restored; and Dr. Hardy has observed, that infants born in a weak state, where no Ergot was given to cause their expulsion, have been restored to animation with much less difficulty, than in those cases in which this inedicine was administercd during labour. Hiemorr. hage alter the birth of the ehild, is an oecurrence the author has never met with in any case where the aterus was sensibly aftected by the Ergot during labour.
With some few exceptions the women had generally good recoverics. Of thise who were athacked with inflammation, all recovered bit two. One was a case of retained placenta, where the band was introduced; this patient died of oterine phlebitis. In the second, there was inflammation of the peritoneum and uteras.
The children who were born alipe, all, with one exception, did well In this case, drlivery was effected by the forceps, as the fetal heart liad fallen so low us 100 from the effect of the Ergot. This statement refers only to those cases where complete restora. son was accomplished after deliyery.-Dublin Journ. Med. Sci,

On the Trentment of After.Pains, Br Edward Rigby, M. D. Seniar Physictan to the General Lying-m Hospital. \&e., 品c.-W tind these pains after most labours, but they vary much, both-in duration and severity. They are always most severe in women who have born many chaldren, and in sume multipara they continue from' 24 hours to three days. 'I'hese pains, in common with those in labour, depend on contraction of the uterus; and theae contractions are kept up after labour. hy the presence of lochia, or of coagula of blond, or of shreds of membrane in the cavity of the uterus. The after-pains, therefore, yon will easily undertand, are essential to the due emplying of this organ. After.pains are not usually felt in primipare. In multipare, when the woman is quitu healthy, they seldom continue very long. When very severe, and of very long-contimuance. they may be emsidered as indicating the presence of infiamation, ir, at all events, of a state bordering on inflammation. 'The pain ma longer comes and goes in distinct intermissions, but it gradually becomes constant; the uterus, too, becumes tender on pressure, Hnd the other symptoms of inflamma. tion are estabished; but we shall have to consider this subject hercafter, when speaking of puerperial fever. It must, however, the borne in mind. that long continued and severe ather-pains may form an insidious transition to a state of it, ilammation.
The treatment parsned during the hast few day of prognancy has grrat influence in modifying the after-fains. If the womain be allowed to ga. even up to the period of her labur, with her bovels confined and loaded with unhealthy freces, and with the arcretions of the prima vie disordered, the uterus seldom contracts well during labour, and, inder dis:8? ciremmstances, after-pains are smetimes very sevcre. Tine tho rapid expulsion of the placenta, and the hasty conclusion of the last stage of labour, so that the nerns does not contract fully and famiy, are also causes of the contrantions which canse thise afler pans; and, in these caser, the after-pains are useful in expeling the cloats and lochia, which, if allowed to remain, would become purid, and thos prove a source of irritation, and, pehaps, give rise to puerperai fever. When the practitioner neglects to apply the chid to the breast as rom as labur is concluded, the uterus does not contract fully, as before mentioned; this, therefore, is another reasun for carly sucking. In speaking of the application of the ehild to the breast, it was umilued to mention the fact of narses having a saying, hat "the child brings after-pains." This oechra, tio a great extent, when the infant is mot applied to the breast until the third day, and is, therefore, another reason, if more were required, for ito cariv upplication.
Although after-pains are commonly, no dotibt, excited by the prisence of coagula in the cavity of the ateras, still, ther may sometimes orcur when no such coagula are to be fonnd. Un this subject, Dr. Burtom, of York, who pultished in 1731, has given some curious observatione, which explain one cause of after.pains very satisfactorily. Dr. Burton says: "upon the expulsion of the chid and the placenta, the orifices of the uterine sinusc:s must contract, and thus retain the grumous blood which is in them; hence the use and benefit of these after-iains, which, by stimulat. ing and compressing the vessels and muscular fibres, make them exert their force to squeeze out this grumous blood, which otherwise might remain there, and occasion inflammation, supparation. \&c., from all which we find that these after-pailis are necessary towards removing or preventing an inflammation of the womb; therefore, we must not be fon forward in giving strong opintes, and other internal medicines, which may take them off whilst this grumous blood is lodged within those sinuses." I doubt not, contimues Dr. Burton. "that thoze patients who die from the eighth to thic fourtemth day, whose uterus has been inflamed with the symphons above mentioned, have been injured by the tro free use of opintes." The discharge, in these cises, contains litule vermiform streds, and these shreds do not consist of portoons of membrane which have been left behind, but they are the casts or moulds, is it were, of the cavities of the blond vessels, and are composed of their conterits coagulated. Dr. Burton mentions a case to which he was called, in consequence of severe after-pains coming on some time after labour. In this case, having intruduced his hand with some dificulty, he perceived several small menGraneous strings, as he then thought them, adhering to the uterus; but, he says, "I was soun undeceived, for, upon expanding my fingers, by which I stretched the womb a little, several of these came into my hand, which I drew ont, and found what I liad imagined to be membranes to be oblong grumous blood, resembling fibres, like those that adhere to a spatula ufter stirring arterial
blood in a basin for some time. I introduced $m y$ hand a second time," he continues, " and made the rexperiment again, but found none of there little clots within the cavity of the womb; yet, upon expanding my hand, several canc onf of the orifices again, which 1 could plainly percejve, and atter keeping my hand there a lithle while, I brought away all that were in the cavity of the uterus, and the patients complainta immediately abated, and she recov. ered well from that rowent." These litile vermiform fibres are, therefore, the casts of the blood vesgels, the cintents of which had coagulated, having been retained by the contruction of their orifices. By being careful not to hasten the last stage of labour, so as to give the aterus time to contract slowly, the uterine simuscs expel their contents, and the annoyance of after-pain is, in many cases, attogether provented.

If was formerly the practice always to ydminister a large dose of laudanum, to check these after-pains; and a most pernicious practice it was, but which bappily has d minished considerably of late years. As much as fo:ty ninims of tincture of opiom were administered as a rule in all cases by gome accouchers. It is hardly nect ssary to peint out the fitsity of the reasoning on which this prastice was founded. Opian stiould never be given for the purpose of checking atter-puins, unless they are very severe, of in some peculiat cane which will be herbafter sonsidered. Stmold the fatient, however, have been accustoned to an afterpain draught, us it is celled, and seem to expect it, a lithe tincture or estract of hyoscinmus or of ictuce may be given her. A mild sedative may, however, in many cases be usefisl after labour, as when the system is in a state of irritability and resilesencss, con. sequeat on the fatigue and irritation of a leughened period of suf. foring: but in these cases a small dose of Dover's powder, cr of the sedative solution of opiom, will atways prove sufficient. When afterpains contmue very severe for some time after labour, the best plar of treatinent will be to give the customary dose of castor oil a litule earlier than usual; this.will generally relieve the pains, on bringing away a quantity of cecal tnatter. When the pains continue very severe, in spite of this treament, the presence of inflammatory action may may he suspected, and the treathent must be accordingly.-Medical Times.

Source of the Catamenial Discharge.-The physiology or the source of the catamenial discharge, so peculiar to the human temale, and the functions of the interior of the utcrus positively uscertained, are subjects comparatively of very recent discovery, and as the opportunities are so sare of our having proof or of our obraining any decisive means of determining the mater or estab. lishing the fact, that the uterus is the source of this healthy and proper sexual secretion, Ithink the fillowing evidence may be interesting :-

On Saturday, the 27th ull.. I was applied to by a medical friend to assist him at a post-mortem examination, mader an order from the city coroner, of a woman who had bung hermelf, the jury not being able to agree in their verdict. It is not often that a medica? man is called on to make a post-mortem examination for the purpose of assisting the jury in comng to a correct verdict after deati from hanging, the catse of death being so palpably vistble; and how that twelve wiseacres could suppose that we should, by an examination after death, be qule to discover the motive that could have induced this poor creature to commit such a rash act I can. not conceive. But their ignorance was bliss to us, as it gave us an opportunity of making a very interesting examination.
The external appearance, and the gorged state or the blootvessels of the brain, clearly proved that deatl, had been chased by atrangulation, and it atso proved Dr. G. Burrows' theory on thas subject to be correct. In removing the abdominal visecra we were atruck with the sizo and vascuiar appearance of the uterus. As we understood she had been confined three months before, and the child soon after died, we thought the uterus migit be impregrbated, bat on laying it open it presented to our view a most beautiful velvet-fike appearance; the whole internal surface was covered with a dark. sanguineons mucus, which seemed to be exudating from it and could the easily scraped off. This unusual uppearance we at once suspected to be the catamenial recretion, or the commencement of the process of menstruation. There was no appearance of any discharge in the vagina, and in order to eatisfy ourselves on the point us to whether she had been regular aince the birth of the last child, we made inquiry, and learnt from a female friend who lived in the house with her, that ehe had
monstruated onee since her confinement, and she thonght that die was cxpecting it agrain in a day or two. There is then indisputable cvidence, and the strmigest corroborative proof of the fact. that the source of the menstrual discharge, once so nuch disputed, is the inner membrane lining the uterus, and I think the strongest case recorded. As it is well known, and many remarkable cases are recorded, that hanging has a very curious effect on the otgans of generation of the male, Query, Did the apparently enlarged utems, and the vascularity of the external part of this organ, aries from the process gomy on within, or from the mode of death?.... Mr. King in Provincial Medical and Surgical Journal, May 19, 1847.

## MATERIA MEDICA AKD CHEMISTRY.

Prof. Liebig's netn test for Hydrocyanic Acid, with Remarre. By Alfred S. Tarloh--In a paper lately published, a short translation of which has appeared in the Chemical Gazeite, Prof. Liebig bas suggested an entiroly now process for the detection of pusiec acid. Ht remarised, that, when a concentrated aqueous solution of his aeid was heated with ammonia and an excess of satphur, the prussic acid was speedily converted to sulphoc yanife of ammonium, which was easily procured in a crystalline state on evaporation. Thus the persulphurets of ammonium, when boiled with pusses acid, lose their yellow colour, owing to the union of the sulphur with cyanogen tatom sulphocyanic actd. In applying this proness for the testing of prossic acid, the Professor states that "a counle of drops of an acid which has been diluted with so much water that it no longer gives any certain reaction with a sylt of iron by the formation of Prussian blue,- when mixed with a drop of sulphuret of ammoniun, and heated in a wateh.glass antil the mixture has become coloricss, yields a liquid containing eulpho. cyanide of ammoninm, which produces, with persalts of iron, a very deep blnod-red columr."
illodification of the test.- Place the diluted prossic acid in a watch.glass, and invert over th another watch-glass, holding in its centre one drop of the aydro-sulpuret of emmonia. There is uu apparent change in the hidio-sulphuret; but if the watch-glass he removed after the lapse of from half a minute to ten mantes, according to the quantity of prusic acid presemt, sulphocyanate of ammoria wall be obtained on gently heating the drop of hydro. sulphuret and evaporating it to dryness. The aldition of persul. phate of iron to the dried residne brings out the blood.red colour instantly, wheh is intense in proportion to the quantity of sulpho. eyanate present. Snch is the simple method of employing the test : it is wholly independent or distillation, and, (unless the prus. sic acid be exeessively diluted, of any application of heat. In this case, the warmh of the hand may be required to expedite the evolution of the vapour.

Whatevar propmtion of acid may be deteeted by the mixture of the two liquids, as suggested by Professor Liehig, nay be with equal eertainty disenvered by this process.-London Medicial Gazatte, April, p. 765.

Chemistry of the Blood.- In a work which is noticed in the Monthly Journal for May, 1847, Professor Haeser has analysed the hæmatological investigations of Andral, Becquerel, Rodier and others, and considers the following aphorisms warranted by his results:

1. The average composition of the healthy blood is pro~ bably the following-i2 fibrin; 131 blood-corpuscles; 70 albumen; 6.8 salts; 210 solid matters generally ; 790 water.
2. The most general effect produced by acute diseases upon the blood consists in the diminution of its solid matters in general, and especially of its blood corpuseles. The only exception to this tule is to be tound during the first stage of typhus, scarlatina, and measles. Whilst the blood-corpuscles appear thus diminished, the solid residue of the serum, especially the albumen, is to be met with in greater amount; the same is the case with respect to the fibrin.
3. During the progress of acute diseases, the blood-cor-
puscles become yet more diminished, and simultaneously ing it with hydro-sulphuret of ammonia.-Medical Gazette, the solid matter of thie serum is aiso undergoing diminution; it is only the fibrin that is sometimes increasing, even during the proyress of genuine inflammatory diseases, whist it is also diminished in the "pyrexice." The same effect as occurs in advanced disease, can generally be produced by blood-letting.
4. Concerning the special character of the true inflammatory process, we meet with the following cheracteristic alterations of the blood-Diminution of the alkaline salts, moderate increase of albumen, and a considerable one of firin. Besides this, there appears an incorporation between fibrin and alhumen, and a direct one between the former and water.
5. Pneumonia is chiefly characterized by a great amount of fibrin ; pleuritis, by that of albumen; bronchitis, by a comparatively slight alteration in the composition of the blood.
6. In acute articular rheumatism, the blood differs from that in genuine inflammation only by the greater diminution of blood-corpuscles, and the corresponding abnormal amount of the solid residue of the serum, and of the water. Another particularity of the theumatic blood is the normal quantity of the salts, and the steadiness of the amount of fibrin.
7. In the fever accompanying the pyrexix, we do not recognise any constant alteration, either in the solids or in the blood, capable of explaining their essential character(Andrai.) In typhus fever we observe the following altera-tions-Till the eighth day of the affection the blood-corpuscles, together with the albumen, and in consequence of these, the solid matters generally, are in undue amount; after that time a progressive diminution of all the solid sul)stances takes place, occurring in the blood-corpuscles most, and the fibrin least. On the twenty-first day the general increase of the solid materiak return again. One or two blood-lettings, made daring the first eight days, prodace but a slight influence upon the composition of the blood; whist at a later period the blood-corpuscles are thereby very considerably diminished.
8. Acute articular rhenmatism, simple erysipelas, and .puerperal peritonitis, considered as to the composition of the blood, form a group which differs from inflammation as well as from typhus fever, by the considerable quantity of water, serous residue, and fibrin induced, and by the extranrdinary dimizution of the blood-corpuscles. The analogy between the three diseases just mentioned becomes still more obvious ". considering the exudations in them, the water and albuanen of which, compared with the composition of the blood, are much increased. At a later period, and after blood-lettings puerperal peritonitis approaches very nearly to typhus fever.
9. Variola, scarlatina, and rubeola, constitute also a natural group, so far as the composition of the blood is concerned. To the two last-named diseases the undue amount of solid moitersin general at their commencement, and the constant increase of albumen and alkaline salts, seem to be characteristic. Hence these diseases approach on the one hand to the erysipelatous, and on the other to the typhus composition of the blood:-Ueber den Gegenwartizen Standpunket der Pathologiscinen Chemie des Blutes.-Prov. Med. Surg. Jour.
[^8]April 2.
[This hint is valuable, and as far as our recollection goes, original on the part of Dr. Rees.]-Prov. Med. Surg. Jour.

A P'leasant Substitute for Epsom Salts as a Purgatixe.-M. Gisot recommends the following formula for the preparation of tasteless pargative silts (eitrate uf magnesia) :-

| Carbonate of Magnesia | 15 parts |
| :---: | :---: |
| (itric acid............. | . 11 to 22 " |
| Arquatie Syrup. | ... 60 |
| Water......... | 300 |

The eitric acid is separately dissolven and added to the carbo. nate of magnesia diffused in water.

As thus prepared it is not effervescing ; but it is easily rendered so by adding only half the quantity of acid, and reserving the addition of the other half, until the dose is taken. The above proportions in grams wond constitute a dome.

Dr. Vercira long since suggested the nst of citrate of magnesia in nearly similar proportions. Mo found that one seruple of erystallized citric acid saturated aboul fourteen grains of light or heavy carbonate of magnesia.-London Med. Gazelle.

THE

## Tritusb

## MONTREAL, SEPTEMBER 1, 1847.

Organization of the College of Physicians and Surgeons of Canada East.-In our last issue we notified the profession of Canada East of the passing of the Bill organizing them into a College, endowed with specific and important powers. In our present number, we present then with a ropy of the Bill as it passed the several branches of the Legishture. Considered in every point of view it is a most important measure, and if carried into operation with enlarged and liberal views, is amply calculated to place the protession here in a lofty and proud position of usefulness and honour. The initiative, as may be seen by the proclamation which we subjoin, has been already taken by the Executive. The appointment of Dr. Arnoldi as the first President of the College, is one from which we think there cannot be'a dissemtient voice. It was a tribute at once to the elevated professional character which that venerable gentleman sustains, as well as to his respectability and private iworth. We hope to witness a numerous meeting of the profession on the 15 th instant; and we hope that the proceedings of that day, of what nature soever they may be, will be dictated by a single eye to the advancement of the interests of the profession, by the appointment of individuals fully competent to the discharge of the important duties which will afterwards. devolve upon them as examinators, which, we need hardly observe, is a matter of deep and serious moment.

## Province of Canada.

By Hie Excellency The Rught Honorable James, Larl of Elgin and Kincardine, Governor General of British North America, and Captain General and Governor-in. Chief in and over the Provinces of Canada, Nova Sćctia, New Brunswick, and the Island of Prince Edward, and Vice Admiral of the вame, \&c. \&c. \&c.
To all to whom these presents shall come, or whom the rame may concern-Greeting :

## a Phoclamation.

Whereas in and by an Act of the Parliament of the Province of Canada, made and passed in the session held in the tenth and eleventh years of Her Majesty's Reign, intiunled, An Act to incorporate the Memlers of the Medical Profession in Lower Canada, and to regulate the study and practice of Physic and Surgery therein, it is amongst other things enacted, that it shall be lawful for the Gonvernor of the said Province, by Proclanation, to fix the time and place for the holding of the first meeting of the Corporation thereby established, and the nomination of the first President thereof, as in and by the said Act reference being thereunto had may more fully appear. Nuw Know Ye, that in virtue of the power conferred upon me, in and by the said Act, 1 have appointed and declared and by these presents do appoint and declare that the first meeting of the eaid Corporation shall be held at the Court IIouse, in the City of Morireal, on Wedneeday, the fifteenth day of September now next ensuing ; And I have also noininated and appointed, and do ly these presents nominate and appuint Darter Aknotob, of the stid City of Montreal, M.D. in be the first President of the said Corporation; of all which Her Majesty's loving subjecte, and all others whom these presents may concern, are hereby required to take notice, and to govern themselves accordingly.
Given under my Hand and Seal ai Arms, at Montreal, this Tenth day of August, in the year of our bord, one thousand eight hundred and furty-seven, and in the eleventh year of 1 ler Majeaty's Reigu.

## Elgin and Kengardine.

By cotrmand.
D. Daly, Secretary.

An Act to incorporate the Members of the Medical Profession in
Lower Cauada, and to regulate the Study and Practice of Physic and Surgery therein.
Whereas the laws now in force in Lower Canada for regulating the Practice of Medicine, Surgery and Midwifery, requirc amend. ment ; And whereas it is highily desirable that the Medical Profession in Lower Canada aforesaid be placed on a more respectiable and efficient forting, and that better means should be provided for the conviction and punishment of persons practising the same without license ; be it thereforc evacted by the Queen's Most Excellent Majesty, by and with the advice and censent of the Legisiative Counch and of the Legisative Assembly of the Province of Canada, constituted and asembled by virtue of and under the authority of an Act passed in the Parliament of the Cnited Kingdum of Great Britain und Ircland, intifuled, Anl Act to re-unite the Provinces of Upper and Lower Canada, and for the Government of Canda, and it is hercby enacted by the authority of the pane, that from and after the passing of this Act. the Act or Ordinance of the Legislative Council of the late Province of Quebec, passed in the ewenty-eighth year of the Reign of His late Majesty King George the Third, and intituled, "An Act of Ordinance to prevent persons practising Physic and Surgery within the Province of Quebec, or Midwifery in the Towns of Quebec and Montreal, without license," except so much thereot as relates to the vending or distributing of medicincs by rctail,--and all other Acts or parts of Acts in any manner relating to the Practice of Physic, Surgery or Midwifery, in Lower Cunada, or in any manner relating to the mode of obtaining licenses, practise Physic,
Surgery or Midwifery therciul ahall be and are harcby sepeuled, Surgery or Midwifery thercin, shall be and are horcby sepeuled, except in so far as relatiss to any offence committed against the
same or any of them before the passing of this Act, or any pesame or any of them before the passing of this Act, or any penalty or forfeiture incurred by reason of such offence : Provided
always, that the Act of this Province passed in the fourth and filways, that the Act of this Province passed in the fourth and fifth years of Her Majesty's Reign, intituled, "An Act to enable persons authorized to practice Plysic or Surgery in Upper or Lwwer Canada, to practice in the Province of Canada," shall not
be repealed or affected by this Act, provided always that nothing herein contaiued shall have the effect of repealing any law or part of law in forec in Lower Cgnada, relative to Druggists and Apothecaries, and the vending of Drugs by them in Lower Canada.
And whereas it is expedient that the Medical Profession of Lower Canada be empuwered under efrtain restrictions to framo its own Statutes for the regulation of the study of Medicine in all its departments, and By.laws for its nwn goverument; Be it therefire enacted. That Daniel Arnoldi. Wolfred Nelson, M. D., M. MPCulloch, M. D., G. W. W. Campbell, M. D., H. H. Sauve. J. B. Vatiquet B. H. Charicbnis, M. D., S. C. Sewell, M. D., Alexander (i. Fenwich, M. R. C. S. L. J. B. C. Trestler, M. D., Hector Peltier, Mi. D., I. A. C. Munro, Louis Boyer, M. D., Benj. Ol. Yalleé, M. D., W. Frazer, M. D., Hy. Monnt, M. R.C.S.L., Louis F. Tavernier, Georye E. Fenwick, M. D., Janes J. Dickinson, M D. Arthur Fisher, M. D., Ed. Rnbillard. Frederick Morson, M. R. C.S. L. A. Renaud, M. D.. Che. Heguat, tmwur, B. Pameuen, Wm. Sutherland, M. D. Frs C. F. Arnoldi, M.fi., Francis badgley, M. D., A. Hum,* M. D., J. G. Bilaud, M. D., Horace Nelsin, M. D., John Auderson, A. H. David, M. D., Itenry Howard, M. D., Robt. L. Macdomnell. M. D., F. Cushing, M. D., B. G. Caider, M. D., W. Mayrand. M. D., W. E: Scott, M. D., Alex. Lang, M. D., F. A. Cadwell, M. D., A. B. Laraceque, M1 D., W. A. Liddell, Surgen, James Crawford. M. D.. Emery Codery, Ths E. d'Odet d'Orsonnens, A. F. Holmes, M. D., J. B. Le Bourdais, E. I. Sewell, M..D.. R. II. D'Amour, Pierre Bronsscau, Cins. H. Keefer. J. B. Melleur, s. E., T. Bowic, M. I., G. D. Gibb.M. D., S. B. Schmide, M. D.; A. E. Regnez, P. E. Pieanlt, F. Cushing, M. D., Moses Ni. colls, James B. Johnston. M. D., E D. Worthington, M. D., A. A. Andrews, J. Alcorn, M. D, - Fuwler, Jushua Chanberlin, Horatin Nelgnin May Thomas Bouthier, Mises F. Colby, M. D., Frederic Steel Vcrity, W. Fleury D'Eschamhaul, C. H. Castle, - Lachappite Cleop. Bernard, C. E. N. Courteaul, Ad. Dugas. M. D.. J. Trudel, Ant. EaFreniere, M. D., A. R. Archambault, F. Hudon, J. B. Gauthier, Jeonard Brown, A. F. Alexander, Rotus Parmelee, P. M. Moren!, J. B. DeRnsiers, M. s. Glines, M. D., Benj. Damm, M. D. Frs. Sheriff, M. D., Uriah Laffin, Mich. Passe, Hildreth, - Von. Iffland, - Grenier, H. Cartier, T. Kimber. Hy. Lord, R. Cartier, J. H. Reanchemin, C. Yeligon. Felix Cote, Ity. Carter, S. N. Guin, L. H. Gauvreau, P.O. Lassisserave, Adol. Alexander, - Sinith. - Malhnit, - Rous. seatr. - Brassard. Calvin Alexander, - Bonrgeois, - Landry, - Desilets, - Fortier. 3. Trudel, Ed. M'Donuld, - Lemaitre, - Badeau, W. A. R. Gilmour, Join Fitzpatrick, L. N. Ruuksean, John Clark, Jospph Coté. W. A Stewart, Ed. Bundreau, J. B. Nocl, C. P. Dube, J. E. Hudon, H. P. Ouellet, L. T. Chn. peron, P. Charest, HI. Derjerdins, R Bédard, L. Têu, J. G.G. Miville de Chèr, D. S. Marquis, C. Lérois, M. Desales La Terriere, A. Dubord, L. Tremblay, L. D. Harvy, C. G. Couillard, L. T. J. Sinelair, E. s. Belleau. H. Germain. R. F. Rinfret, J. Marmette, A. T. Michand, F. Punhn, P. A. Dubois, R. Mackenzie, Joseph Morvin, J. ban Rawley, J. Z. Nault, Jas, H. Sewell, M. D. C. Fremont, J. S. J. Landry: C. S. Robitaille, Francois Jacques Śquin, P. D. Huber, P. G. Tourangeau, M. D., J. B. Blais. P. M. Bardy, Jos. Parant, Jus. Painchand, J. Blanchet, R. II. Ruseel, M. D., J. F. Russell, M. D., E. A Jackson, P. D. Mottat, Jotm L. Hall, John Watt, M. D., John Racey, J. Douglas, Lonis 1. Roy, P. Wells, J. Painchand, Jumr., A. T. Michaud, F. Poulin, L. S. J. Sinclair, L.s. Tremblay, and their successors, to be named and appointed as herrinafter described, stali be and are hereby constituted a body politic and corporate by the name of "The College of Physicians and Surgeons of Lower Canadn," and shall by that wame have perpetual succession and a common seal, with pawer to change, alter, break or make new the same; and they and their successors by the name afuresaid may sue and be sued, implead and be impleaded, answer and be answered unto in all Courts and places whatsoever, and by tho same aforessaid shall be abie and capable in law to have, iold. receive, cujny, jossess and retain for the ends and purposes of this Act and for the benefit of the said Cullege, all such sums of maney as have been or shall at any time hereaficr be paid, given

[^9]or bequeathed to and for the us\% of the said College; and by the name aforesaid shall and may at any time hereafter be paid, without any Letters or Mortmain, purchase, take, reccive, have, hold, possess and enioy any lands, tenements or hereditaments, or any estate or interest derived or arising out of any lands, tene. ments or hereditaments for the purposes of the said College and for no other purposes whatever; and may sell, grant, lease, demise, alien or dispuse of the same, and do or execute all and eingular the matters and things that in them shall or may appertain to do: Provided always, that the real estate so held by the paid Corporation shall at no time execed in value the sum of one thousand pounds.

And be it cnacted, That from and after the passing of this Act, the persons who compose the Colloge of Physicians and Surgeons shall be called "Members of the College of Physicians and Surgeons of Lower Canada."

And be it enacted, That the affairs of the said College shall be conducted by a Board of Governore thirly-six in number, fifteen of whom shall be elected by the College generally from anong its Menbers in the Districte of Quehec and Gaspé, fifteen from among its Members in the District of Montreal, and six from among its Members in the Districts of Three Rivers and st. Francis.

And be it enacted, That the said Buard of Gnvernors shall be, and they are hereby constituted "The Provincial Mcdical Board," in which capacity they shat meet for the examination of candidates not less than twice in each year at such time and place as to them shall be deemed most fit, and on which occasions seven shall be a quorum for the transacton of husiness.

And be it enacted, That from and after the passing of this Act, no person shall receive a license to practise Piasic, or Surgery, or Midwifery, in Lower Canada, unless he shall have ubtained a certificate of qualification from the said Provincial Medical Board; and which license the Governor of this Province slall grant upon the production to han of such certificatc of qualification; Provided always, and be it emacted, that every person who has obIained or may hereafter obtain, a Medical Degrec or Diploma in any Uuiversity or College in LIor Majesty's domininns, shall be entitled to euch certificate without examination as to his gralification.

And be it enacted. That from and after the passing of this Act, no person shall be admitted as a student of Piysic, Surgery, or Midwifery, umess he shall have obtained a certificate or qualification from the said Provincial Medical Board.

And be it enacted, That from and after the passing of this Act, no permen shall practise Physic or Surgery, or Midwifery, in Lower Canadd, unless he be a person duly licensed so to pracLise. either before or after the passing of this Act, under a penalty ol Five Pounds currency, for each day on which any person shail s:) practise, contrary to the provisions of this Act : and such penally shall be recoverable on the oath of any tivo credible wituesses, before any Justice of the Peace for the District in which the offence shall have been committed, and in default of the payment of such penalty on convictinn, the offender may be committed to the Common Gaol of the District, until the same be paid: Provided always, that nothing herein coltained shall extend to prevent any person duly licensed to practise Physic, or Surgery, in Upper Canada, from practising the same in Lowes Canadd, according to the provisions of the Act hercinbefore cited.

And be it enacted, that the said College of Physicians and Surgeons shall have power,-

1. 'To regulate the study of Medieine, Surgery, Midwifery und Pharmacy, by making rules with regard to the preliminary qualification, duration of study, curriculam to be followed, and the age of the candidate applying for a certificate to obtam a license to practise: Provided always, that such rules siall not be contrary to the provisions of this Act.
2. To examine all credentials purporting to entille the bearer to a certificate for license to practise in this Province, and to ob'ige the bearer offsuch credcutials to attest (on oath to be adminintered by the Chairman for the time being) that he is the person whuse name is mentioned thercin, and that he became possessed thereor honextly.
3. To cause every member of the profession now practising, or who may hercafter practisc in Lower Canada, to enregister his name, age, place of residence, nativity, the date of bis license and the place where he obtained it , in the buoks of the College.
4. To fix the period of probation which persons must undergo beiore being eligible for election as Members of the College, which
pcriod shall not be less than four years, and to make all such rules and regulations for the government and proper working of the said Corporation, and the dection of a President and Officers thereof, as to the members thercof may seem meet and expedient. which said rules and regulations shall, before they shall come into effect, be sanctioned by the Governor of this Province, after the same shall have been submitted to him for approval, and by him allowed.
And be it enacted, That the qualifications to be required by the Bnard of Governors from a person absut to commence the study of Mediciue in this Proviner, shall be; a good moral character, and a competent knowfedge of Latiu, History, Gcography, Mathematies and Natural Philesophy;-and that from and after the end of the year one thousand eight hundred and fifty, a general knowledge of the French and Enghish languages shall also be in. dispensable.
And be it eracted, That the qualifications to be required from a candidate for examination to obl-in a certificate for a license to practise shall consist in his not heing less than iwcnty-one years of age; that he has followed his studies uninterruptedly during a perod of not less than four years under the care of one or morn general practitioners duly licensed; and that daring the said four years he shall have atlended at some University, College or Incorporated School of Medicine within Her Majesty's Dominions not less than two six months' courses of General Anatomy and Physinlogy-of Practical Anatomy-of Surgery-of Practice of Medicinc-of Midwifery-of Chemistry-and of Materia Medica and Piarmacy,-one six months' Course of the Insututes of Medicine, -one three months' Course of Medical. Jurispridence,and one three months' Course of Botany, if obtainable in Lower Canada; also, that he shall have attended the general practice of an Hospital in which are contained not less than fifty beds under the charge of not less than two Physicians or Surgeens for a period not less than one ycar, or two perinds not fess than six montha each; and that he shall also have attended two three months' or one six months Course of Clinical Medicine, and the same of Clinical Surgery. And to remove all doubte with regard to the number of lectures which the incorporated Schools of Medicine of Quebec and Montreal are bound to give yearly: Be it enacted and declared, that it is and shall be suffieient that the said Schnols of Medicine respectively, shall yearly cause to be delivered no hundred and twenty Lectures on the subjec:s by law provided, in the English language or in the French Language, without ita being necessary that any lecture should be delivered in both lans. guages, and each lecture, in whichover langnage delivered boing reckoned as one of the one hundred and twenty.
And be it enacted, That all persons obtaining the certifics to for liceuse to practise from the College of Physictans and Sur. geons of Lower Canada, shall be styled Licentiates of the said Coltege, and be conscquently in due course of time eligible to be elected menbers of the same, and such persons so elected shall be at once eligible for election as Guvernors. And the said election, either as member of the said College, or as Governor thereof as a foresaid, shall be made under the rifes and regulations therefor, and in such manuer as the said Corporation shall make therefor, to be sanctioned by the Governor of the Province in manner afornsaid: Provided always, that it shall be lawful for the Gover. nor of this Province, by Proclamation, to fix the time and place for the holding of the first mecting of the said Corporation, and the first President thereof.

And be it enacted, 'That the Buard of Governors aforesaid shall regulate the fees to be paid by all candidates about entering on the study of medicinc, provided the amount of such fees do not cxceed the sum of one puund five shillings currency; and also by all perbons who obtain from the said Board a certificate for license to practise medicine; provided that the sand fee dunctexeced the sum of two pounds and ten shillings currency; which fees the Governors shall have the power to dispose of in such manner as they shall deem most proper for the intrerests of the College.

Provided always, and be it enacted, That nothing in this Act contained shall be construed to prevent or prohibit any competent temale from practising mdwifery in Lower Canada, such female proving her competency before any two members of the College of Physirians and Surgenns, and obtaining their certficate to that effect; Provided that such certificate and proof shall only be required in the Cities of Montreal and Quebec, and the Town of 'I'hree Rivers.

And be it enacted, That so much of any Law heretofore in
force in Lower Canada, as may have fixed the period of prescrip. tion with regard to the clain (dernande) of any persun duly liecnsed to practise Physic, Surgery or Mid wifery for professional services, attendance or medicme, shall be, and is hercby repealed; and any such claim shall be prescribed by the lapse of five years from such attendance service or medicine furnished, withont any act having been dome to interrupt the prescription, and not hefore; Provided always, that nothing hercin contained, shall be construcd to revive any such claim actually prescribud before the passing of this Act.

And be it enacted, That this Act shall be a public Act, and taken and recoived as such in all Courts of Justice, and by all persons in this Province.

> (Attested.) J. TAYLOR, Clerk Ass't of D'pty Clork Leg. Council.

Health of the City.-_Judged by the mortality reports, and general professional experience, the health of the city is improving; although the ratio of deaths from lever is still inordinately high. For the last ten weeks the weekly returns of mortality from that cause alone are as follow:-

yielding ratios far above those of New York or Boston. Other prevailing diseases are dysentery and diarthea, the former of which is more than usully prevalent this season. From all accounts the sanitary state of Quèbec has not improved much; typhus fever, introduced by the immigrants, being remarkably prevalent; while at Grosse Isle, though matters seemed to be improring, the mortality among the immigrants is still immense. On Sunday the 22 d , at 10 А.м., there were 2,048 patients in Hospital ; and the deaths for the week endiug the same day at noon were 228. At the Emigrant Hospital, Point St. Chades, on August 30il, there were 1198 sick; and 20 deaths took place during the preceding tiventy-four hours. Now, however, that the temperature of the air has become cooler, we may anticipate a more healthy condition of both the cities.

## Appointment of Lecturers at the School of Medicine

 and Surgery.-Dr. Horace Nelson having resigned his letureship of Anatomy, and in consequence of the provisions of the Act regulating the study and practice of nedicine, several appointments to lectureships have latsly taken place at a special meeting of the Corporation. Dr. Bibaud, lately lecturer on Materia Medica, his been appointed to the chair of Amatomy, vacated by Dr. Nelson; Dr. Coderre to the chair of Materia Melica; Dr. Peltier, to that of Fustitutes of Medicine; and Hr . Boyer to that of Medical Jurisprudence. The chairs at all worthily filled, although we much regret the losswhich the school has sustained in the resignation of hr. Nelson. This gentleman, from histalents and amiability of disposition, had secured to himself a large cirele of attached friends; and much as we regret his departure from this city, for Platts. burgh, the scene of his present professional labours, we hope that a relaxation from the arduous duties accruing to his lectureship will restore him a full measure of that healh which had become seriously im. paired.

Ledoyen's Disinfecting Fluid.-Having perused several interesting Parliamentary documents in relationto this fuid, any person at all conversant with chemistry may easily detect its composition, which would appear to be a solution of nitrate of had. It may be easily prepared by decomposing a solution of acetate of lead by nitric acid, thus setting free acetic acid, the use of which as a disimfectant, so called, has been long. known. It strikes us, however, that the name is a misnomer. A solution of nitrate of lead, one can readily imagine, can purily an apartment, \&c., by decomposing the sulphurettel hydrogen, or hydro-sulphuret of ammo. nia existing in it ; but it cannot be, with propriety, termed a disinfectan, unless it he shown, that infectious miasmata consist essentially of sulphuretted hydrogen, or its combination with ammonia, facts not yet denonstrated. The application of the nitrate of lead, however, to purifying purposes, is, we believe, original on the part of Mr. Ledoven, and is really as deserving of attention, as it seems to be well calculated to ensure success in this particular.

Abolition of the Concours in France.-The Cliamber of Peers has cone to a vote by which the system of election by Concours in France is abolished. Some of the noisy advocates of this electioneering practice are about to present a protest to the Chamber of Deputies against this rote, and to require a restoration of their favourite panacea for bringing out professional talent! But the feeling of the most eminent and experienced men in the profession is decidedly against the re-establishment of this system.-London Medical Gazette.

Mcdical Schools in the United States.-The following corrected list of the Medical Schools in the United States, which we copy from the pages of our estecmed contemporary, the Western Lencet, published at Lexington, Ky., will be found to possess considerable interest. They have been carefully arranged by the editor of that well-conducted Journal in chronological order, from the statement submitted to the last National Medical Convention. by the Chairman of the Committee appointed to report on Medical Schools:-

## Medical Schojls.

1. Medical Department of the University of Yennsyivania,
2. Massachusetts Medical Cullege, (Harvard),
3. New Hampshire Medical Schol,
4. University of the State of New York, (College of Phys, and Surg.)
5. Faculty of Physic of the Univer sity of Maryland,
6. Medical Institution of Yale College,
7. Medical Department of Transyl. vania University,
8. Caatieton Medical Colicge,
9. Medical College of Ohio,
10. Medical schont of Maine,
11. Berkshire Medical Institution,
12. Jefferson Medical College,
13. Medical Department of Columbian Collcge.
14. Medical Schuol of the University of Virginia,
15. Washington Hedical College,
16. Medical College of Georgia,
17. Medical College of the State of Sonth Carolina,
18. Medical Department of Willough. by University,
19. Vermont Medical College,
20. Medical Colluge of Lenisiama,

2:. Medical Department of St. Louis University,
22. Medical Deprartment of the Uni. versity of Louisville.
43. University of the City of N. York,
24. Hedical Department of Hampden Sydney College,
25. Albany Miedical College.
26. Medical Department of Pennsylvania College,
2\%. Medical Department of the Einiversity of Missourn,
28. Rush Medical College.
29. Western Reserve Medical College,
30. Franklin Medıcal College of Phila. delphia,
31. Buflalo Medical College.
32. Memphis Medical College,
33. Philhdelphia Medical College,
34. Medical Department of Geneva College,
35. Winehester Medical Cullege of Virginia,
36. Medical Dapartment of lllinois College,
37. Indiana Medical College,

## Location.

When

Mhiladelphia, Pa.
1765
Boston, Mass.
1782
Hanover, N. II.
1797
New Yurk City,
1807
Baltimore, Md. 1807
New Haven, Conn. 1810
Lexington, Ky. 1818
Castleton, $\mathrm{VI}_{\text {I }}$.
1818
Cinceinnati, O. 1819
Brunswick, Maine, 1820
Pittsticld, Mass. 1823
Philadelphia, Pd. 1824
Washington, D. C. 1825
Charlottesville, Va. 1825
Baltimore, Md. 1827
Augusta, Ga.
1830
Charlestun, s. C. 1833
Columbus, 0.1834
Woodstock, Vt. 1835
New Orleans, La. 1835
St. Louis, Mu,
183.

Louisville, Ky.
18:17
1837
1838
1839
Richmond, Va,
Albany, N. Y.
Philadelphia, Pa .
St. Louis, M\%.
Chicago, Ill.
Cleveland, 0.
1839
1841
1843
18.4

Philatelphia, Pa.
1846
Buffalo, N. Y.
Memphis, T'ent.
1846
Phifadelphia, Pa.
1846

Gencra, N. Y.
Winchester, Va.
Jacksonvilie, Ill.
Lir Purte, Indiana.

## OBITUARY.

Died, in this rity, on the 6th ult., Frederick Cushing, M. D., aged 52. Ir. C. was a native of South Berwiek, Maine; and descended from a famuly which, from the earliest period of the history of New England, has been distinguished for intelligence and respectability. The late Chief Justice Cushing was an uncle of the deceased, and several members of the family have been distinguished in professional and literary purstuits. Dr. C. received his collegiate education at Dartmouth University, N. H. ; and purfued his professional studies in his native state, and at Boaton. He frst setuled as a physician at Durham, N. H., in 1817, where he practised with distinguished success for twolve years; fiom thence he removed to Burlington, Vt. ; and in 1833, fixed his residence in Montreal. In 1834, his treatment of Cholera was characterised with eminent success, and his disinterested and humane conduct towards the poor who had heen afflicted with that malady, reflected credit on his feclings. Prompted by the same desire to render himself useful to the afflicted, he did not hemiale to place hie professional services at the disposal of the
emigration department, on the appearance of ship fever in this city; and accepted an appointment as one of the physicians in charge of the sheds' hospital, where he unfortunately contracted the disease, and in a few days was numbered among its victims. -Communicaled.

At Groose Isle, on the 25th July last, of typhus fever, contracted in discharge of his duties as one of the attending physicians. Alexis Penet. M. D., of Varrenves, aged 22 yeare. This promis. ing young man lately graduated at McGill College.

On the 3rd instani, at his mother's residence, No. 48 Sanguinet Strect, St. Lawrence Suburbs, Dr. John Jameson, aged 34 years, son of the late Captain Jameson, of disease contracted whilst discharging his professinnal dutics at Grosse Isle.

On the $2 d$ instant, Dr. Graham, of Scarborough, C.W., in con. sequence of injuries received from a fall on the previous evening. Dr. Graham vas in extensive practice in his vicinity, and bis numerous friends, by whom he was held in much esteem, deepiy deplore his melancholy and premature death.

At Peterboro, C. W., on Sunday the lst instant, of typhus fever, caught while in attendance at the immigrant sheds, John Hutch. ison, Esq., M. D., aged 50 years, formerly of Kirkaldy, in Fife, North Briton, and a resident in America since 1815.

At William Henry, County of Richelien, on the 5th instant, aged 87 years, of typhus fever, Dr. Rodolph Steiger, formerly a Captain in Watteville's Regiment, contracted in the exerciec of hin profession, sincerely regretted by his family, and by a numerous circle of friends.
Suddenly, at the residence of his father, Joseph Vallee, Ess., on Friday, the 13 th instant, Dr. Benjamin Oswald Oliver Vallé, aged 27 years and eight months.

## LICENTIATES OF THE MEDICAI. BOARDS.

Montrcal, July 3, 1847.-His Excellency, the Governor-Gene. ral, has been pleased to grant a Licence to Alcide Faneuf, Esq, to enable him to practice Physic, Surgery, and Midwifery within the Province of Lower Canada.

July 10.-His Excellency, the Governor-General, has been pleased to grant a Licence to Alexunder MeDougall, of Niagara, rentleman, to practice Physic, Surgery, and Midwifery, in the Province of Canada.
duly 17.-IIs Excellency, the Governor.General, has been pleased to grant a licence to Peter N. Church, Esq., M. D., to cable him tu practice Physic, Surgery, and Midwifery; and a Licence to William Brough, gentleman, to enable him to prar.. tice as an Apothecary, Chemist, and Druggist, in the Province of Lower Camada.
July 31.-His Excellency, the Governor-General, has been pleased to grant Licences if Jaines Henry Richardson, of To. ronto, gentleman, Charles Cameron, of Toronto, gentleman, and George s. Herod, of Guelph, gentleman. to practice Physic, Surgery, and Midwiferv in the Province of Lower Canada.

August 7.- His Excellener, the Governor-Gencral, has been pleased to grant a Licence to Charles Huguet Latour, Esq., to enable him to practice Physic, Surgery, and Midwifory, in the Province of Lower Canada.

August 14.-His Excellency, the Grwernor.General, has been pleased to grant a Licence to H. H. Satwe, Esq., to practice Physic, Surgery, and Midwifery, in the Province of Lower Canada.
August 17.-His Excellency, the Governon-(iencral, hap been pleased to grant a Licence to Charles Seager, of Walsington, gentleman, tio practice Physic, Surgery, and Midwifay, in Canada.

## NOTICE TO CORRESPONDENTS.

Professor Croff's puper has been receised; it will be neserted in our succeeding number. Letlers have bepn reccived from Dr. Gilchrist, Dr. Pyke, Dr. Hodder, and Dr. Craigie; he first and secont gentiemen are informed that their advices arrived tou lnte for any useful purpose at the House, when the lill was pass. ing; enquiry was made at the time, and the Bill jad passed. to the upper Housc.

To Dr. Modder we have to ohselve, that in acordance mith his desire, application was mude at the proper puarter for his frientl; but the Medical Stuff uras then sufferig a diminution instead of nugmentution. The pressure of nunerous duties han as yet prevented a dircct reply to these gentleten.

Bill of Mortality for the City of Montreal，for the month ending July 31， $184 \%$ ．

| Diseases | $1$ | 皆 | － | $\stackrel{\sim}{\text { 它 }}$ |  | $\cdots$ | $\underset{1}{1}$ | $\begin{array}{c\|c\|} \hline 20 & 10 \\ \hline 1 & 1 \\ 0 & 10 \end{array}$ | $\begin{aligned} & 40 \\ & 1 \\ & 1 \\ & 0 \end{aligned}$ | $\begin{gathered} 4 \\ 7 \\ 1 \\ 5 \end{gathered}$ | 0 <br> 6 <br> $\bullet 1$ <br>  | 19 <br> 1 <br> 1 <br> 10 | 号 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SSmall Pox，．．．．．．．．．） 3 | 3 | 6 |  | 3 | 3 | － | － | － |  |  | － | － |
|  | M Masles，．．．．．．．．．．． | 2 | 9 | 4 | 3 | 1 | 1 | ． | $\cdots$ | － |  | ． |  |
| Epidemic or Inffctiols，．．．．．．．．．．．． | Scariatma，．．．．．．．． 1 |  | 1 | － |  | ， | 1 | － $\mathrm{S}^{\text {i }}$ | ． | 0 |  | 1 |  |
|  | Hever，inclu．typus？140 | 105 | 245 | 28 | 28 | 6 | 13 | 4 ： 26 | 51 | 30 | 38 | 21 | － |
|  | Dentition，．．．．．．．．．． 33 | 54 | 87 | 48 | 39 | ． | ． | ． | ． | ． |  |  |  |
| Digeages of Brain and Nervous | Comvulsions，．．．．．． 8 | 3 | 11 | 10 | 1 | ． | － | － | － | ． |  | i |  |
| ミуяtem，．．．．．．．．．．．．．．．．．．．．．．．．．．． | Apoplexy，．．．．．．．．． 1 |  | 1 | ． | ． | ． | ． | －． | － | － |  | 1 |  |
|  | Paralysis．．．．．．．．．．．． 1 | 4 | 5 | ， | ， | ． | ． |  |  | ． | 2 | 3 |  |
|  | Water on the Erain 2 | 1 | 3 | 1 | 1 | ． | － | $1$ | ． | ． |  | － |  |
|  | （Coup de Soler！．．．．． 1 |  | 1 |  | 1 |  |  |  |  |  |  |  |  |
|  | Consumption，．．．．．． 30 | 33 | 63 | 21 | 9 | 3 | 1 | 2 \％ | 3 | 8 | 6 | 3 |  |
| Diseages of the Tiloracic Viscera |  | 1 | 1 |  | 1 | ． | ． | － | － | ． |  | ． |  |
|  | Ilooping Cough．．．． | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |
|  | （Diarrhara．．．．．．．．．． 6.4 | 42 | 106 | 63 | 29 | 3 | 2 | $1: \dot{2}$ | 4 | ． |  | 1 |  |
|  | Dropsy，．．．．．．．．．．．．｜ | 3 | 4 | ． | 1 | ． | ． | － | ， | ＋ |  | 2 | 1 |
| Digestes uf Ampominat Viscer | \｛ Dyseritery，．．．．．．．．． | 1 | 2 | ． | ， | － |  |  | 1 | 1 | ． | ． |  |
|  | Cholera．．．．．．．．．．．．． | 3 | $\stackrel{1}{4}$ | ． | 2 | ， | － | － | $1$ | 1 |  | ． |  |
|  | （IVorms ．．．．．．．．．．．．．${ }^{2}$ | 0 | $\stackrel{2}{2}$ |  |  | $\underset{2}{2}$ | ． | － |  | 9 |  |  |  |
|  |  |  |  | 11 | 2 | 2 | ． | 1 ： | 2 | 9 |  |  |  |
|  | Debility，．．．．．．．．．．．． 4 | 5 | 4 | ． | ． | ． | ． | ．${ }^{\text {a }}$ |  | ． |  | 6 | 3 |
| Orher cauges and Diseages，and | Stilhborn，．．．．．．．．．． 10 | － | 10 |  |  | － | ， |  | － | ； |  |  |  |
| Diseaneg not spechaliy desia． | Unknown，．．．．．．．．． 17 | 7 | 24 |  | 1 | ． | 1 | － | － | 1 | ． | 1 |  |
| Nateh，．．．．．．．．．．．．．．．．．．．．．．．．．．．．． | $\{$ Sudden Death．．．．． 3 | 2 | 5 | I | － | － | － | $\cdot 1$ | $\dot{\square}$ | 2 |  | 2 | 1 |
|  | Accidental，．．．．．．．．${ }_{\sim}^{2}$ | 1 | 3 | 1. | ． | ． |  |  | 2 | i | － | . |  |
|  | Drowned．．．．．．．．．．．． 3 |  | 3 |  | i | － | 1 | ．${ }^{\text {a }}$ | 1 | 1 |  |  |  |
|  | （Obher Causes，．．．．． 6 | 3 | 9 | 1 | 1 |  |  |  |  | 1 | 3 | 3 |  |
|  | T＇otal，．．．．．．．．．．．． 349 | 286 | 635 | 209 | 122 | 40 | 20 | 8：36 | 65 | 47 | 51 | 43 | 5 |

Besides the above，there were buried in the city cemetries， 270 lmmigrants，of whom 134 were males and 136 were females， Of this number，there dicd of Fever， $218=109$ males and 109 females；of Diarrhoea $16=8$ males and 8 females：of Measles and Small Pox， $5=3$ males and 2 females ；of Consumption $12=6$ males and 6 females：of other diseases 1928 males and 11 females； At the ages recorded in the table，there died under 1 year of age， $43 ; 1$ to 3,$53 ; 3$ to 5,$23 ; 5$ tu 10,$57 ; 10$ to 15 ， $19 ; 15$ to 25 ， $19 ; 25$ to 35,$34 ; 35$ to $4 \overline{5}, 9 ; 45$ to 55,$5 ; 55$ to 75,8 ．This statement does not comprise the mortality at the sheds．

MONTHLY METEOROLOGICAL REGISTER AT MONTREAI，FOR JULY， 1847.


|  | Barometer at Temp. of $32^{\circ}$. |  |  |  | Temperature of the Air. |  |  |  | Tension of Vapour. |  |  |  | Humidity of the Air. |  |  |  | Wind. |  |  |  | Weather. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 3 P | 10 p.m. |  |  |  |  |  |  |  |  |  |  |  |  | $24 h$ | 7 A.m. | 3 р.m. | 10 p. м. |  |  |
|  | 29.7 | 29 | 29 | 29.745 | $60.8^{\circ}$ | $75.1{ }^{\circ}$ | $58.8{ }^{\circ}$ | 65.7 | . 3 |  |  | . 395 | . 63 | 2 | . 68 | . 64 | N. N. E. |  |  |  |  |
|  | 29.795 | $29.763$ | 29.746 | 29.770 | 63.5 | 78.4 | 63.6 | 67.7 | . 412 | , 563 |  | . 475 | $.72$ | . 60 | . 73 | $.7_{22}$ | Calin. | Calm. | E. by S. |  | 'di |
|  | 29.797 | 29.740 | 29.709 | 29.737 | 67.6 | 80.7 | 59.8 | 69.5 |  | . 578 |  | . 507 | . 73 | $.57$ | . 81 | . 72 | Calm. | S. by E. | Calm. |  | cl'r. Ligit cl'ds \& haze r'nu hor |
|  | 29.758 | 29,69 |  |  | 76.4 | 79.2 |  |  |  | . 580 |  |  |  |  |  |  | N. by W. | S. S. W. |  |  | Do. do do. |
|  | ${ }_{29}^{29.743}$ | 29.6 | 29.710 | . 7 | 67.3 | 80.4 | 67.0 | 71.8 |  | . 735 |  | . 546 | . 73 | 83 | .86 | $.72$ | Calm. | S. by W. | Caln. |  |  |
|  | ${ }_{29.762}^{29.737}$ | 29.730 29.701 | $29.7$ | 9.7 | 67.4 | 76.3 | 63.4 | 78.8 | $\begin{aligned} & .543 \\ & .527 \end{aligned}$ | $\begin{array}{r} .716 \\ 7.689 \end{array}$ | . 543 | . 573 | . 83 | $\text { . } 8$ | $.92$ | $.83$ | Calm. Calm | C:lm. |  | 0.030 | $\mathrm{Clia}$ |
|  | 29.681 | 29.621 | 29.5 | 9.63 | 70. | 77.6 | 70.2 | 73.3 | . 625 | . 675 | . 541 | . 618 | . 85 | . 73 | . 7 | . 77 | Calm |  | $\mathrm{Cal}$ |  |  |
|  | 29.661 | 29.592 | 29.589 | 29.603 | . 2 | 791 | 10.2 | 73.8 | .610 | . 665 | . 5.14 | . 6 | . 79 | . 68 | . 76 | . 74 | Calı | E. by S. |  |  | D. ${ }^{\text {do }}$ |
| 11 | 29.56 | 29.527 | 29.531 | 29.537 | 69.6 | 80.1 | 71.9 | 76.6 | . 577 | . 597 i | . 557 | . 581 | . 83 | . 59 | . 73 | . 76 | Calı | E. by N . | Cal |  | Haze emin, cld pm |
| 11 | 29.558 | 29.517 |  |  | 75.2 | 78.4 |  |  |  |  |  |  | . 81 | .69 |  |  |  | E, by N |  |  | Gin. overtast. Detached cluids. |
| 12 | 29.553 | 29.518 | 29.5 | 29.595 | 74.4 | 81.6 | 68.8 | 74.0 |  |  |  | . 660 |  | . 74 | . 88 | . 81 |  |  |  |  | Light passing clutds. |
| 13 | 29.526 | ${ }^{29.506}$ | 29.624 | 9.572 |  | 77.4 | 62.0 | . 0 |  |  | . 395 | 93 | . 73 | . 62 | . 73 | . 67 | WNW | N. by w. | N. N |  |  |
| 15 | 29.689 | 29.663 | 29.594 | ${ }^{29.631}$ | 61.2 | 71.2 | 56.3 | 62.4 |  | $\begin{aligned} & 370 \\ & 5882 \\ & \end{aligned}$ | . 344 | . 360 | .62 | . 50 | . 76 | ${ }_{79} 67$ | N. by W. | s by w. | Caim |  | und - |
| 15 | 29.6 | 29.530 | 29.513 | 29.559 | 58.4 | ${ }^{76.4}$ | 69.0 | 67.3 |  | $58.2$ | . 571 | . 515 | . 86 | . 66 | . 87 | 79 | Calm. |  | Calm |  | Gent |
| 16, <br> 17 | 29.612 | 29.574 | 29.596 | 29.595 | 70.3 | 81.6 | 68.4 | 73.2 |  |  |  | . 602 |  |  | ${ }^{.87}$ | ¢6 | Calm | Sbuw 20 | Calm |  |  |
|  | 29.615 | ${ }_{29.641}^{29.610}$ | 29.671 | 29.630 | 71.1 | 75.0 | 2 | 74.7 |  |  | . 743 | . 702 | . 85 | . 87 | . 94 | 85 | C. S. | S.W. | Calm | 0.95 |  |
| 19 | 29 | 29.58 | 29.57 | 29.60 | 77.0 | 84.6 | 71.2 | 76.9 |  | 791 | . 587 | . 699 | . 83 | . 68 | . 79 | 78 |  | s.s. |  |  |  |
| 20, | 29.607 | 29.545 | 29.551 | 29.56 | 75.4 | 80.2 | 70.3 | 73.4 | . 202 | . 801 | . 681 | . 705 | . 83 | . 80 | . 96 | . 88 |  | S. S. W. |  |  | Pru, |
| 21, | 29 | 2 | 29.4 | 29.46 | 71.7 | 78.6 | 67.4 | 72.4 | . 716 | .721 | . 569 | . 654 | . 95 | . 76 | . 87 | . 55 | Calm. | S W | Cal | 0.6 |  |
| 22, | :29.526 | 29.60 | 29.746 | 2.0 | 69.9 | 78.4 | 60.4 | 6.7 |  | , | . 381 | 43 | . 80 | . 49 | . 74 | . 69 | N. by W |  |  | 0.835 |  |
| 23 | 29.87 | 29.85 | 29.841 | 29.846 | 59.0 | 72.4 | 57.4 | 63.4 | . 403 | ${ }_{583}$ | . 410 | . 444 | . 87 | . 83 | . 85 | . 78 | Calm | S. by | Calm |  |  |
| 24, <br> 25 <br> 2 | 29.834 | 29.733 | 29.630 | 29.64 | 625 | 69.6 | 65.8 | 6.0 |  | ${ }^{2} 583$ | .52 | . 5 | . 87 | .83 | . 85 | . 85 | Calm | E. b | E. N. |  |  |
| 26 | 29.439 | 29.398 |  |  | 75.9 | 75.7 |  |  |  |  |  |  |  |  |  |  | S. by | w by s . |  |  |  |
| 27 | 29.469 | 29.623 | 29.719 | 29.642 | 56.0 | 61.4 | 484 | 540 |  | . 291 | . 269 | . 292 | . 68 | $\left\lvert\, \begin{aligned} & .54 \\ & .62 \end{aligned}\right.$ |  | . 71 |  |  | C | 0.190 | Thun, ithe, \& r'ntill 7 am, Mos |
| 27 | 29.797 29.761 | 29.799 | 29 | 29.7 | 54. | 63.0 64.8 | 50.8 | 55. |  | ${ }^{.347}$ | . 331 | . 334 | $.68$ | $\begin{aligned} & .62 \\ & .60 \end{aligned}$ | $.88$ |  | N. by | S. by | Ca |  | Mostly clear aliday. |
|  |  |  |  |  |  |  | 52.8 | 58 |  | . 557 | . 509 | . 345 | . 82 | . 8.2 | . 42 | . 50 | E. by |  |  |  |  |
| 30, | 29.48 | 29.46 | 29.467 | 29 | 59.2 | 65.0 | 57.6 | 59.1 | . 435 | . 510 | . 435 | . 43 | . 88 | . 85 | . 93 | . 88 |  |  |  |  |  |
| 31, | 29.496 | 29.477 | 29.534 | 29 | 59.8 | 68.4 | 558 | 60.7 | . 442 |  | . 399 | . 414 | . 8 T | . 67 | . 92 | . 80 | Caln |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | . 485 |  | . 80 | . 67 |  | . 77 |  |  |  | 3.3 |  |

[^10] force of

|  |  | Temper | urefo |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Year. | Mear. | Mna. | Min. |
| Proportion of Wind from each Quarter-- | 1810 | $66.3{ }^{\circ}$ | $82.3{ }^{\circ}$ | $47.0{ }^{\circ}$ |
| N.W. 67 \% Total. | 1811, | 65.5 | 89.0 | 39.9 |
| s.w. 93 Winds, 301 | 1842 , | 61.7 | 91.0 | 42.5 |
| S.E. 105 Calms, 34t | 1843, | 6.158 | 86.8 | 38.7 |
| N.E. 36 - | 1844, | 66.08 | 96.6 | 40.1 |
| Mean turce of the Wind, 0.19 lbs.; Maxi- Obyer., 648 | 1845, | 66.74 | 95.0 | 45.7 |
| mum force on $17 \mathrm{th}, \mathrm{nt} 3 \mathrm{pm}, 4.00 \mathrm{lbs}$, per square foot. | 18.66 | 68.22 | 94.6 | 4.5 |
| mum | 1847 | 67.62 | 87.0 | 43.2 |


[^0]:    －Cruvelumer，in the details of one of his cases，depicts the sufferings of inis unfortunate patient，in the following words，－ ＂Alors be manifesterent des besoins frequents et imperieuses
    duriner avec contractions douloureuses de la vessie et dolour it I＇cxtremitie de la verge，les urines devinrent catarrhales，le malade presenta tous les symptoms du catarrh vesical．＂－＂Au bout de quielque temps，les douleurs devinrent tellement vives et tellement ripprochece qu＇il lui fut，impossible de quitter la chambre．＂－＂Le
    Kalade survécut trois mois d＇agonie les besoins d＇uriner frequents tressanti douloureuse contractions violentes detontes les puissances Wexpulsatrices，tellement que le defecation accompagnait souvent l＇mission des urines．＂
    t Sir Benjamin Brodie，the highest British authority on surgery，箱的 who has devoted so mich attention to diseases of the urimary ungans，says $\ddagger$ there is no disease for which an improvad method of cteatment is more wanted than for this，which has hitherto been
    靠 Uinary Organa．

[^1]:    * C'est encore dans les cas de suppuration, qu'on trouve des productions pseudo-membraneuses dont parient tes autcurs. C'est l'expulsion de ces fausses membranes par l'urettre quia a fait répeter a tant de medecins que la tunique muquease de la vessic pouvait etre entierement detachee et expulsé par portions avec lea urines. -Frerve Dict. de Med, Art. Cystite.

[^2]:    * By a strange coincidence (for ì believe there were no other instances of - discase in the town at the time), I had two othe cases of this atection under my care on the same day that thi gentleman was attacked. In one, a female recently confindi, hoarseness set in at 8 o'clock p.m.; at 11 o'olock, I was sent for and she died a few minutes after my arrival.

[^3]:    - This is the prescription I usually employ in mild forms of the disease. I have tried extensively the pareira brava, so much lauded by Sir Benjamin Brodie, and have not experienced the same success from its emp'oyment. I have seldom used the uva ursa, as my practice is, to resort to injections in cases which do not speedily yield to the above remedies, and in cases in which various plans of treatment have already failed in the hands of other practitioners.

[^4]:    * Much additional interest and information would have been infused into the Report had it been accomparied by a smalloutline map of the region described; and this, considering the facility and little expense attending the lithographic process, appears to have been almost an inexcusable omission, which we trust will not be overlooked hereafter.

[^5]:    * This idea has been lately revived, and the subject was intro. duced to the notice' of the House of A ssembly, in a tangible shape, on the 26th of July lant, by the member for Bytown, in a series of resolutions advocating the opening of a water communication be. tween Lake Huron and the Ottawa, the 3 d clause of which was as follows:- ${ }^{3}$ Resolwed-Ihat it is the opmion of this House, that such water communication can be attained by following the channel north of the"Manitoulin Islands, to the moulh of Erench River to Lake Nipissing, and thence down the river Matawa to the Ottawa river, and descending the Ottawa to Montreal." But unfortunately thia patriotic movement'shared the sume fate as manty other malters of even greater importance, and remained undecided.

[^6]:    * Though our limits will not permit of further quotations from this part of the work, we cannot refrain from adverting here to a minute tabular view, given by Mr. Logan, of the manner in which the beds succeed each other, as exhibited in a section measured at the High Falls, in descending order, to a depth of 1351 feet, throughout an almost enderes aeries of elaborate observations.

[^7]:    *The eligibility of the district of Gaspe for settlement by emigrents of small means, was first pointed out in the time of Lord Dalhousie, and was revived during the governinent of Lord Durham; and was again encouraged by the Gaspe Commissiuners in 1842, as well as by Dr. Gesner, the Provincial Genlogist of New Brunswick, and still further concurred in by Dr. Douglas of the Quarantine Station, Grosse Isle, from a memorandum by whom we make the following truly important extract:-"This fine country calluding especially to that part which fronts on the Bay of Chaleur frem the Restigouche to the Perces) having a front of 200 miles on the sea coast, along which are excellent harbours for vessels of any size, and having five rivers flowing through it, has advantages in point of soll and climate equal to any part of $\mathrm{Ca}-$ nada East. The forests contain pine and other timbers of value, and the:sea and rivers abound in fish, the taking and curing of which employ some thousands of pepple in the summer season. The soil is generally excellent, and yields good returns of wheat, potatees, and other kinds of grain and roots." It may be added, that the people above alluded to are transient visitors, to the number of between 3000 and 4000 , who come to tbe employed during the fishing season, und leave again in the autumn, after earning during their stay from six to ten dollars a month, besides board.

[^8]:    Source of Fallacy in testing the Urine for Sugar.-Dr. Rees has nointed out the fact, that the dark colour produced by boiling the suspected urine with caustic potash (Moore's test, ) is not satisfactory, unless the pirity of the potash be first ascertained. He was led to this knowledge by having : falled to detect sugar in a specimen of urine said to be diabetic, when it: occurred to him that the dark colour met with by the party sending the urine might be due to the presence of lead in his potash, which was fornd to be the fact by test-

[^9]:    * Our nwn name has been, by a most unfortunate blunder, metamorphosed inte Hunt. We rearet this the more, "t prestent, as in comerquence of not heing a member of the corporation, a?though a signer to the petition, we are necessarily expladed trom any participation in the proceedings of the 151 h instant. -Ed.

[^10]:    Highest Baramect,
    Lowest
    do. Range 43. 8
    

