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## BRTTMETE AMEREAR JOURNRE

OF

## MEDICAL AND PHYSICAL SUCLENC.

Vǒ. III.]
MONTREAL, JANUARY, 184.
[NO. 9.

ART. XXX.-CONTRIBUTIONS TO CLINICAL MEDICINE.
By J. Crawford, M.D., Lecturer on Clinical Medicine, M•Gill College.
Read at the Medico Chirurgical Socicty, 41 L Dec., 1847.
Idiopathic Pneumothorax, following dif use Inflammation of the Arm-Death.
The patient, D. S., accidentally received a punctured
*. wound near the right wrist joint, by a chisel, on the 19h October, 1847; shortly after which, his arm began to swell, and became very painful. He was taken care of for about a week by a professional gentleman, when it was thought advisable to send him to the Montreal General Hospital on the 27th, where he was placed under the care of Dr: Campbell. His arm being very painful, and much swelled, it was freely scarified, and he had tepid saturnine lotions to it. He was ordered calomel, opium, and tartarized antimony, in repeated doses. He appeared to go on in a satisfactory manner, and became my patient on the 1st November. His arm, fore-arm, and hand, were then much swelled, the cutaneous surface slightly red, and the limb was so painful that he could scarcely bear to have it moved. The wound at the carpal extremity of the ulna, continued to discharge pus freely; there was considerable constitutional depression, his pulse rapid, small and weak, tongue foul, with some thirst. The tartarized antimony was now discontinued, and wine and quinine ordered. The tincture of iodine was painted over the arm.

On the 4th, he was reported to have been gradually and daily improving for the last three days until to-day, when he was suddenly seized with dyspnea, which obliged him to have his head and shoulders elevated. The upper pait of the chest was heaved up with some difficulty, the lower portion apparently being fixed, and bound down, the diaphragm and abdominal muscles acting strongly to aid the respiration. His countenance indicated great respicatory difficulty, and the bloated and purple colour showed that serious obstruction existed to the transinssion of the blood through the langs: There was a slight cough, but nothing of any consetquence: The arm appeared rather better; the discharge continuing, and being laudable pus, pulse rapid and weak.

The stethoscope showed diminished respiratory mur-
mur of the right side, as if the murmur were distant while it was very distinct near the spine, this side giving a clear sound, on percussion, but nothing remarkable os beyond what is normal. The respiratory murmur loud and bronchial in the left lung generally, while percussion gave a dull sound. The patient, however, could not bear a very minute exploration; it was apprehended that a purulent metastasis had taken place. The clearness of sound on percussion, gave the idea of an emphysematous condition of a portion of the right lung, although the cough was not sufficiently severe to give rise to this state, or to account for any other recent lesion. It was merely the absence of dulness on percussion that attracted attention, and which could not satisfactorily be explained.

He was ordered mist. camphore 5 , ammoniz carbonat. gr. v., tinct opii gr. xx., bis. die. Antimon. tartar. gr. 1-16, omne 3 ter. hora, a large blister to the chest. Next day his respiration was rather more labborious, and he had passed a bad night without sleep, face purple, pulse 90 , profuse cold perspirations, respiratory murmur more indistinct in the right lung, the blistered surface preventing percussion, respiration in left lung loud and bronchial, impossible to examine minutely because of the fatigue and dyspnca it induced. Ordetra to continue the medicines, and to have the blistered surface dressed with mercurial ontment, and to have a blister put between the scapule.

6th. His breathing, although still laborious, was apparently easier, the lower portion of the chest motionless; his countenance more natural colour, voice better, pulse 100, pretty firm, and of tolerable volume'; cold perspirations continue. He was reported to have had a better night, from an anodyne ; the respiration in the left lung, accompanied by a sibilant rale, still bronchial.: In the right lung it is very indistinct, except near the spine. He lay with his head and shoulders elevated. Directed to continue his medicines.
7th. He was reported to have passed an easier night, and to have had some sleep. His respiration appeared somewhat easier ; his tongue parched, and covered with brown fur; some thirst, pulse 80 , natural volume. Says he feels better. To continue.

10th. Since last report there was not much change.

The dyspnoa had not increased; his colour appeared somewhat more natural ; pulse 84 , and of good volume; he moaned much in his sleep, and was frequently bathed in cold perspirations; very trifling cough, and no expectoration. The stethoscope indications much the same.

He passed a bad night; his countenance looked more distressed, pulse 130 , moans a good deal, yet says he feels easier. Has been mosily lying on his left side since yesterday.

He died during the following night:
The autopsy was performed in presence of Dr. Campbell, by Dr. Long, with great care. The figure of the chest was natural; there was no bulging out of the ribs, or intercostal spaces. When the right cavity was opened, the lung was found collapsed or compressed into the smallest possible size, lying along the spine: it appeared about the size of the closed hand, and did not contain any air. There was no fluid nor any other visible contents in the cavity, nor did any air issue from it perceptible to the senses. The left lung did not collapse, as usual, it appeared mottled, and of a bright red colour. It adhered, by a considerable extent of surface, to the pleura costalis, in consequence of a recent effusion of lymph, which was casily broken down. Its substance appeared somewhat engorged with bright blood; two ounces of serum were found in this cavity. The lungs and bronchi were removed with great care, and inflated by means of a blowpipe; they both filled well; and, although they were rendered cmplysematous, not the slightest trace of rent could be discovered, or means by which air could have escoped into the pleurad cavity. The right lung was in a perfect state of health, with the exception of a few granular bodies on its substance. The heart was healhy, and in situ. The liver healthy, was pressed down into the abdominal cavity several inches beluw its normal situation. The veins of the injured arm were examined minutely, and found healihy. The wound caused by the chisel was found to have communicated with the joint, and the carilages were becoming absorbed in two or three places.

## REMARKS.

It would appear that death was caused in this instance by the unfortunate coincidence of both lungs being simultaneously involved-the right being rendered wholly useless by the pressure of the air in that pleural cavity, while the function of the lett was seriously inter-
rupted in consequence of its congested state, and the adhesions it had formed with the costal pleura. Pneumothorax as an idiopathic affection, independent of any lesion of the pleura, or of the decomposition of eflused fluids into the chest, or of transudation, post mortem, is an extremely rare affection, and by some deemed very problematical, if not denied. On the present occasion; its existence for several days before death, and its independence of any of the before-mentioned causes, is un. questionable. Collections of air have occasionally been met with in the cavity of the peritoneufg (tympanitig abdominalis), which, in the majority of instances, were traceable to perforation of the intestine. On some rare occasions, however, no manifest cause could be assigned, and a few authors have ventured the opinion, that serous membranes are capable of secreting gas, like the bladder of the fish; and this view we readily adopted, on the present occasion, as the only probable explanation of this rare affection. In like manner, we must explain the gaseous formation which takes place in the uterus; and bladder. We know that enormous quantities of gas are occasionally rapidly generated in the intestines in cases of hysteria, fever, peritonitis, and some other affections, which we cannot attribute to fermentation, and we even see these to be as rapidly absorbed or removed without passing by the more obvious outlets; but these subjects are still in obscurity. A question here suggests itself-Did the two very dissimilar exhalations from the pleura originate in one and the same cause? and are they not both referrible to a low inflammatory condition of this membrane? If so, we can understand the more frequent complication of pneumothorax and empyemato depend both on a vital action, and not, as is generally supposed, the former to be the consequence of decompo. sition of the effused fluid.

It is somewhat remarkable, that towards the termination of the case, the patient lay on the left side, thereby increasing the impediment to respiration, by pressing on the side by which the function was principally per: formed. Nor can we explain the circumstance by supposing that, by confining the action of the side, he thereby avoided pain, as he never appeared to suffer any. The case was, throughout, obscure, as it is also of extremely rare occurrence.

ART. XXXI.-CASE OF EXTENSIVE RUPTURE OF'THE UTERUS, TERMINATING FATALLY ON THE 4TH DAY AFTER DELIVERY.

By C. Smallwood, M. D, St. Martia.

The following case of Rupture of the Uterus came under my care on the 29 th May last. The patient, $x t$ 28; of short stature and small pelvis-in labour of her fourth child, whom I attended in a previous confinement ; and although it was tedious, she did well. A (sage femme) was in attendance, who stated her to have been in labour upwards of 24 hours-that an attempt to turn had been made by a practitioner, eight hours previous to my arrival, who had left, with directions to send for me; but being absent, I did not see her until seven, P. M., when I found her in bed, lying on her back, with her arms extended.-Complains of no pain, the pains having ceased, about noon-coun. tenance anxious-eyes sunk-skin covered with a cold sweat-perfectly sensible, but answers inquiries in a whisper. Respiration laborious-Pulse sharp and fre. quent,-Tongue moist,-Vomiting occasionally,passed no urine since morning. These symptoms, with the deformed appearance of the abdomen, even under the bed-clothes, led me at onve to suspect the serious nature of the casc. Upon examination I dis covered the buttocks of the child, with the lower ex. tremities, to have escaped into the abdomen, which I felt distinctly through the abdominal parietes. I could also distinctly feel the contracted uterus encircling the other part of the body of the fixtus. The fotal circulation had ceased.

On examination, per vaginam, the os uteri I found dilated, the verter presenting naturally, and at the superior outlet of the pelvis, (the midwife told me the head had receded since the cessation of pain) the fotal circulation had entirely ceased.

I could not du otherwise than look upon the case as a fatal one, taking into consideration the length of time that had elapsed; the state of collapse in which I found her, and the extensive nature of the rupture, from which I decided to wait, at least, a few hours, and if possible to recruit the sinking powers of life; or, should nature, on the other hand, become more exhausted, not to interfere to hasten the fast ebbing stream of life to a fatal termination,

I gave hergr, opiigr. it, and ordered her wine, and ammonia, at intervals, with directions, that should she rally, they wers immediately to lot mo know; accor: dingly I was gummen on the following moining.
when I found her some what changed for the betterThe respiration was free-pulse quick but sof-tongue, moist-has not vomited since midnight-passed no urine-felt no pain, but great tenderness over the belly-has not slept.

The case, to me, appeared to offer but two methods: Craniotorny, or the Cæsarean operation. I decided upon the former, resolving, if $I$ failed in delivery, per vias naturales, to have recourse to the latter, in which I was seconded by her earnest request, and the solicitations of her friends.

I proceeded at once to perforate the head, and by means of the blunt hook, I succeeded in bringing it down. Traction-brought on a sensation of faintness: and I was interrupted, from that cause, several times during the delivery.

After having divided the umbilicus, I introduced my hand into the uterus, to ascertain, 1 st. - the extent and" nature of the injury, and 2nd.-to prevent the descent of any of the intestine, becoming enclosed in the con. tracting uterus.

The rupture was situated transversely ; or, from side to side, at the fundus and anterior part thereof, and was: at least seven inches in length, as I could pass my extended hand through it-the opening in the peritoneum appeared not so extensive as in the muscular texture of the uterus; the placenta was attached somewhat posteriorly, which I proceeded to remove, the uterus closing upon it as it was withdrawn ;-there was but slight hæmorrhage, with some congula and a waterysanguinous fluid of a dark colour.
The foctus was a female of ordinary size; it presented, a little above the hips a dark coloured circle, or line, made, as it were, by a ligature, caused, without: doubt, ly the contracting powers of the uterus.

The patient rallied considerably for three days after the delivery; there was secretion both of lochia and milk, but she sunk suddenly on the fourth day, and ex-pired-a post mortem examination was not permitted.

This is the first case of rupture of the uterus that has come under my observation, cither in England or in this country; and I am inclined to think itis hap. pily of rare occurrence-at least so far as my ownex:perience goes, during a period of 13 or 14 years practice in the country, and in upwards of three thougand cases.

I see by the Report of the Royal Maternity Chistity, that the ayerage is 1 in 4,429 caseg Burns give the
average as 1 in 940 cases, which is an immense difference, the former seems to be more in accordance with my own experience.

St. Martin, Isle Jesus, Dec. 7, 1847.

Abt: xxxil.-OBSERVATIONS ON METEOROLOGY.

By Mr. Jesrice M'Cond.

Although no longer able to devote my attention to meteorological observations, I cannot but rejoice on observing the great degree of exactness bestowed on that branch of science by the contributors to your valuable Journal. In a short time we will be possessed of a continued series of observations, whicb will determine the actual mean temperature of the climate of this Province, and its maxima and minima.

This will be the first step towards the solution of that interesting question, whether our climate has changed since the first settlement of the country, and if so, in what degree? The result of my own observations led me to believe that the mean temperature had not altered materially, but that the extremes had ; that is, that we are to longer exposed to such intense and continued periods of heat and cold. The truth or fallacy of this opinion can alone be tested by time and observation. With a view of facilitating this inquiry, and in hopes that others may follow my example, I have now the pleasure of placing before you and those interested in this investigation, a few tables, showing the maxima and minima of the past, partly derived from MSS. in my possession, and partly extracted from public journals. On some future occasion, should you think proper, I will send you some other tables bearing on this subject. When personally engaged in these researches, $I$, was much disappointed on finding how very few observations, or even memoranda, were extant, on which re liance could be placed. Of those now sent you, tables 1 and 2 may be especially relied on; they are carefully compiled by me from the journals hept by the late Réne Boilean, Sen, Esq., of Chambly, a gentleman who devoted much attention, during a long life to the study of Natural History, and particularly to climate. Table No. 3 , is extracted from the Quebec Herald of 1790 , now a very scarce work. very scarce work.


Shewing the Days on which the Maxima and Minima occurred, extracted from Mr. Boileau's Tables,'Chambly. .as

| Year. | Day. | Max. | Day | n. |
| :---: | :---: | :---: | :---: | :---: |
| '1820 | 4th July, | 90.50 | 2d Febraary, | -28.75 |
| 1821 | 14th Augu | 88.25 | 24th January, | -20.87 |
| 1822 | 2d July, | 89.37 | 5th Jannary, | -35 |
| 1823 | $\left\{\begin{array}{l}\text { 5th July, } \\ 10 \mathrm{ch} \text { July, }\end{array}\right.$ | 88.25 | 7th January, | -26.50 |
| 1824: | 19th June | 89.12 | 5th February, | -23.12 |
| 1885 | 11ih July, | 32.50 | 30th Jauuary, | $-17.50$ |
| 1826 | 12th ${ }^{\text {coly, }}$ | 91.61 | 1 st February: | -27. |

Table 3.
Temperature observed at Quebec, 1790 , showing an unusual continuance of Extreme Cold.

| Monday, | 8th February, |  | 8 а мs., | $+8$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Nonn, | +11 |
| Tuesday, | 9th | " | 5 Fm, Midnight, | - 11 |
|  |  |  | ${ }^{11}$ A.Mr, | -27 |
|  |  |  | 2 р.m., | -16 |
|  |  |  | $5 *$ | -18 |
| Wednceday | 10 th | " | 110 | -27 |
|  |  |  | 1 Ам., | -29 |
|  |  |  | $7{ }^{7}$ | -32 |
|  |  |  | 2 р.м., | -10 |
|  |  |  | 5 ": | $-13$ |
| Thursday, |  |  | Midnight, | $-20$ |
|  | 11th | " | 17 A.m., | -29 |
|  |  |  | $7 \times$ | -25 |
|  |  |  | 2 р.м. |  |
|  |  |  | 5 \% |  |
| Friday, | I2th | " | Midnight, | -11 |
|  |  |  | 7 A.м.,' | $-12$ |
|  |  |  | Nom, | -3 |
|  |  | " | Midnight, |  |
| Saturday, | 13th | " | $\begin{array}{ll} 7 \\ 2 & \text { A.m. . } \end{array}$ | $+_{+11}^{7}$ |

Mem.-A corresponding week necurred in the year 1810 , also at Quebec, but not quite sa severe-from observations made on Cape Diamond.

Jamuary | $11 t h$ | 0 |
| ---: | :--- |
| 12 Zcro. |  |
| $13 t h$ | -5 |
| $14 t h$ | -10 |
| $15 t h$ | -10 |
| $16 t h$ | -25 |
| $17 t h$ | -21 |
| $18 t h$ | -12 |

Table 4,
Showing the Extremes of Heat and Cold at Quelcc, for Elceven Years, from 1800 to 1810 inclusive, from the Appendix to Smith's History of Canada.

| Year. | Day. | Max. | Day. | Min. |
| :---: | :---: | :---: | :---: | :---: |
| 1800 | 6th July, | 96.00 | 204 L Jamuary, | 600 |
| 1801 | 31st July, | 890 | \{ 4th Jannary, | $-10.00$ |
| $\begin{aligned} & 1892 \\ & 1803 \end{aligned}$ | 27th July, 9 9th July, | 8600 9700 | 6ith Feibruary, 4th January. | 10.0 -18.00 -18.09 |
| 1804 | 22d June, | 90.09 | 21 st Jtnuary, | -2200 |
| 1805 | 18ih July, | 91.00 | 5h January, | $-2000$ |
| 1806 | 15th July, | 00 | $\int$ 17th January, | -8.00 |
| 1807 | 12th Jul | 96.00 | 26 h January, | -20.00 |
| 18118 | 16 ti July, | 96.00 | 16 th January, | -13.09 |
| 1803 | 27 h J June, | 92.09 | 14th January, | -26.00 |
| 1810 | 18th June, | 90.00 | 2014 January, | -26.00 |

Tabie 5,
Showing the Maxima and Minima at Montreal for Five Years- 1836 to 1840, from my own Tables.

| Year. | Max. | Mn: |
| :---: | :---: | :---: |
| 1836 | 9000 | -13.00 |
| 1837 | 30.00 | -18.00 |
| 1838 | 90.00 | -13.00 |
| 1839 | 8900 | -18.100 |
| 1840 | 91.00 | -14.50 |

Art. XXXIII-1. Report on a System of Public Elementary Instruction for Upper Canada. Montreal, 1847.
2. Special Report of the Measures which have been adopted fur the Establishment of a Normal School; and for carrying into effect generally the Common School Act (for U. C.) of 9th Victoria, cap. 20 ; with an Appendix. Montreal, 1847.
3. Annual Report of Common Schools for Upper Canada for 1846. Montreal, 1847. By the Rev. Dr. Ryerson, Chief Superintendent of Schools for Upper Canada.
4. Letters on Elementary and Practical Education. To which is added a French Translation. Montreal, 1841. By Charles Mondelet, Esq.
5. Annual Report of Common Schools for Lower Canada for 1846. Montreal, 1847. By Dr. J. B. Merlieur, Chief Superintendent of Education, Lower Canada.
Of all the objects which can engage the attention of the statesman, the philosopher, the philanthropist, or the Christian, there is not one of deeper interest or higher importance than that which is embraced in the abovementioned five documents; therefore, whatever may be the diversity of opinion which unhappily prevails in this Province regarding the modus operandi, in the introduction of a system of public Elementary Instruction, every reflecting man must be prepared to acquiesce in the urgent policy and necessity of such a measure, and admit that the great initiatory step has at length been accomplished by the Government and the Legislature, and that the amount of practical success which shall be reaped, must henceforward depend on the cordial spirit with which the prople shall co-operate in the great work.

Unfortunately for our noble Province, the rancour of parly feeling, in conjunction with that curse of Canata, the ungenerous and uncalled.for war of races and sects, seems still destined to embarrass and retard for a time even the most unexceptionable attempts at improvement, be it either in our public or social organization. But we are not without hope that better days are in store for us; and we even trust that much will ere long be accomplished through the medium of the powerful ageney of the system of popular education now in operationthough its value may yet, in some quarters, be ill understood or appreciated, and may for a time furnish a few heartless demagogues a fertile source of party strife. If, therefore, we shall, by our humble efforts in favour of the better understanding of so estimable an object, prove at all instrumental in accelerating " a consummation so devoutly to be wished," we shall ever rejoice in the perhaps rather rash but disinterested patriotic step which we have been induced to volunteer in its belialf, at a rather peculiar crisis.* We would, however, wish to observe, that in deprecating the mischievous workings of sheer party: feeling. and the miserably undignified,

[^0]and even: unprincipled, opposition thereby frequently engendered to the best of public measures, we are not disposed to encroach upon or abridge the wholesome privilege of dispassionate, independent inquiry into the intrinsic merits of every public question, or to deny that much good is derived from these being viewed and examined with a critical eye and probing hand; and, in proof of this, it is our intention to avail ourselves of this very privilege, in the course of whatever observations we may be induced to make in the present article. It is of the vicious primum mobile, and consequent uncharitable temper, alone, betrayed by certain writers, that we complain; but; unconscious of being actuated by any such unworthy incentives, we trust uat we shall so express ourselves as to escape without any very serious animadversions from our readers on that score.

Having premised thus much, we proceed to commence our remarks on the two leading documents at the head of this article, by observing, that though it is now 50 years since that great questio vexata, the creation of a public fund, "for, first, the establishment and support of a respectable Grammar School in each District," and, "in due process of time, of a College or University," was first mooted in Upper Canada, the final arrangements connected with neither of these imposing branches of a Provincial Educational System have yet been carried into permanent successful effect !-a fate not much to: be wondered at, when we consider that it was making a beginning at the wrong end, in attempting to complete the ornamental superstructure of so vast and inlluential a national edifice, without, in the first instance, laying that necessary and natural, substantial founda-tion-a system of sound elementary instruction for the great lody of the people.

This sistrange error or oversight, however, was at last discovered, and redeemed about 20 years afterwards, i. e., in 1816, when, the wants of the humbler classes of society demanding their legitimate share of attention, an Act was passed by the Provincial Parliament, for the establishment of Common Schools; and from that date to the present time, that estimable popular foundation has been gradually acquiring substantial depth and breadth, until it has at last happily assumed a degree of solidity and harmony, that, though still susceptible of very considerable improvement, will be found capable of supporting any ornamental superstructnre, in the shape of Grammar Schools or Colleges, which the ensuing Parliament may choose to decide upon:

Did our circumscribed limits permit, we should be disposed to lay before our readers a preliminary connected sketch of the successive fitfut attempts at legislation on this important branch of ellucation; but that being ont of our power, we rest content with observing, that the first really decisive step in the improvement of Common Schools in Upper Canada took place in 1841, when the outline of the present system was adopted by the Provincial Parliament; that a second was attempted in 1843. when the previous arrangements were considerably modified and that the third and last took place in 1846, when other modifications were made, and incorporated in the revised Act then passed-and etill in forgexand to which we must keg to refer our fegdera
for details. The same want of space also precludes our giving anything like a condensed view of the leading features of the system which has at length been adopted, either from the Reports before us, or the different authors from whom the Superintendent so copiously quotes; and we do so with less hesitation, as, fortunately, the fomer has, very judiciously, been extensively circulateld in every part of the Province. All that we can at present promise is a few unconnected extracts from the former -more in justice to the writer, than with any idea of criticising or elucidating the merits of the question-that we may thereby be afforded greater scope for the humble efforts which we intend to make, towards counteracting a few illiberal prejudices, and answering some unreasonable objections which have been raised against various parts of the now promising foundation of our great edncational edifice,-whether arising, on the one hand, from a sweeping political distrust of the principal workman employed, or, on the other, from baseless national prejudice against a few of the most useful materials, because, forsooth, they happen to be of foreign origin.

It is unfortunate for the Reverend and certainly talented author of the two Reports referred to, that he has long occupied no inconsiderable space, as a public writer, in the arena of political, sectarian, and even educational controversy; but, however that may have been, he having been at length selected to fill a most important experimental public office, aiming at the furtherance of a transcendantly great and good object, and the appointment being in every respect in keeping with the character of his sacred calling, as a preacher of the Gospel, it behoved even his bitterest opponents to suspend their warfare for a season, and give him a fair trial, before they made any further attempt to condemn either him or his labours. But, far from such having been the case, every casual opportunity seems to have been cagerly seized upon to lower his standing in public esti-. mation, as well as to defract from the value or merit of his undeniably zealous exertions in behalf of the important matters committed to his investigation. Nothing daunted, however, the Reverend Gentleman appears to have held on "the even tenor of his way" unmoved, or, at most, to have been content with an occasional ejaculation of-"Strike, but hear me," until he had an opportunity of, in some degree, defending himself, on submitting unreservedly to the government and the people, the result of his unvearied investigations in various countrics, in his Report on a System of Public Elementary Instruc-tion-a document, from the perusal of which, whatever may be its peculiarities, we have derived great satisfaction, and from which, we conceive, no unprejudiced: man can rise, without acknowledging himself materially instructed and better informed on the interesting and important subject therein discussed; but which some of the reverend writer's opponents seem to have considered so meritless and objectionable, that they deemed it their duty to condemn it "at one fell swoop," without, apparently, taking the trouble of giving it a perusal. Of this wholesale antagonism, however, more hereafter. In the meantime, we feel bound to allow the reverend writer to encal for, and defend himgelf in the langunge of his:
prefatory letter to the Provincial Secretary, on transmitting his Report, and thereby enable our readers to judge for themselves:-
"I cannot expect that an implicit and unqualified assent will be given to every remark which I have made, or to every npinion I have expressed; but 1 trust the general principles of my Report will meet the approbation of His Excellency, and that the several subjects discussed will be deemed worthy of the cunsideration of the public.

In availing myself as far as possible of the experience of other countries, and the testimony of their most enlightened Edu. cationists, I have not lost sight of the peculiarities of our own country, and have only imitated distinguished examples of other nations. Prussia herself before adopting any important measure or change in her system of Public instraction, has been wont $t$ send School Commissioners into uther countrics, to collect all possible information on the subjects of defiberation. France, Eugliand, and other European governments, have done the same. Three enlightened Educationalists from the United States have lately mado similar tours in Europe, with a view of improving their own systems of Public Instruction. One of them spent upwards of two years in Europe, in making educutional inquirres,-aided by a Forcign Secretary. I have employed scarcely hall that time in the prosecution of my enquirics; and without having imposed one farthing's expense upon the public. Though the spirit of cen. sure has been in some instances indulged on account of my absence from Canada, and my investigating, with practical views, the Educational Institutions of Governments differently constituted from our own, I may appeal to the accompanging Report as to the use which I have made of my observations; and I doubt not but that His Excellency, and the people of Upper Canadu generally, will appreciate the propriety of such inquirics, and respond to the spirit of the remarks which that distinguished philosopher and statesman, M. Cousin, made on a similar occasion, after his return from investigating the systems of public instruction in several countries of Germany.
The experience of Germany, (says M. Cousin,) particularly of Prussia, ought not to be lost upon us. National rivalries or antipathics would here be completely out of place. The true greatness of a people does not consist in borrowing nothing from others, but in borrowing from all whatever is good, and in perfecting whatever it appropriates. I am as great an enemy as any man to artificial imitations ; but it is mere pusillanimity to reject a thing for no other reason than that it has been thought good by others. With the promptitude and justness of the French understanding, and the indestructible unity of our national character, we may assimilate all that is grod in other countries without fear of ceasing to be ourselves, Besides, civilized Europe now forms but one great family. We constantly imitate England in'all that concerns outward life, the mechanical arts, and physical refinements; why, then, should we blush to borrow something from kind, honcet, pious, learned Germany, in what regards inward life and the nurture of the soul?

But 1 have not confined my observations and references to Germany alone; the accompanying Report is my witness, that I have restricted myself to no one country or form ol Government; but that I have borrowed from all whatever appeared to me to be good, and have endeavoured to perfect, by adapting it to our condition, whatever I have appropriated."

Having so far allowed Dr. Ryerson to speak for himself, we consider it but justice to add that we cannot comprehend how, with such direct evidence on record of the great working merits of the valuable system of primary instruction lately introduced among us-come from what country it may-as evinced in its successful adoption in so many other differently ruled kingdoms and states, it should for a moment be regarded as unsuitable to Canada alone ; and we are also not a little surprised that its principal opponents should be among that portion of the provincial press which assumes to itself the title of liberal, and as such, advocates every approach to the doings in the neighbouring republics, considering
that so many of these very States take a pride in having adopted its leading features. Nay, we should even think that a feeling of consistency might have made that portion of "the fourth estate" rather regard it with no small degree of respect, since it has the merit of being raised on nearly the stame foundation, and composed, for the greater part, of the same materials as found such favour in the eyes of "the Reform Parliament" of 1836 ; through the medium of the Report on Education by that noted reformer, Dr. Duncombe. But our surprise is still greater, and it gives us real pain to find a portion of the conservative press, as well as respectable wardens of municual councils, misled by these ignes fatui of pseudo-liberality, and blindly launching forth their anathemas against the continuance of so promising a system, before time has been allowed for either the different parts of its present machinery working smoothly into each other, or admitting of the adoption of such improvements as might ensure its more successful operation. As instances of what we complain of, we may mention that one writer, in the face of the explicit quotation above given, unblushingly asserts that Dr. Ryerson, " on finding that he could not sadule the Prussian systeni at once upon the province, had resolved to accomplish it by little and little; and that his aim was to take the management of the common school education out of the hands of the many, and put it into those of a ferv-one feature of the Prussian system; whereas he (the writer) had always insisted that if there be any sulbject which more than another claims the supervision and watchiful care of parents, it is the education of their children." And, further, in commenting on the special Report on normal schools, (which we regard as furnishing a good deal of interesting matter, besides forming an unerring common school vade-mecum or guide, as containing a well digested body of useful information and instruction for all the officials connected with the working of the system, from the chief superintendent down to the trustees of 'i school section,) the same writer unhesitatingly observes, that that document "displays some of the doctor"s mose interesting peculiarities, but that there is very little in it ; and that the superintendent has the signal bad taste to occupy more than one half of that short Report with a covert attack (risum teneatis!) upon his opponents, \&c, "and with the same delicacy impugns the motives of the head of the government!" Nay, more; the same journalist, in concluding another charitable article, in which he coolly tases the worthy superintendent with having accomplished little or nothing during three years, piously ejaculates:-‘: Well, we have a prodigy of a superintendent; will government suffer this man to dishonour the situation he holds any longer ?" While a still more "Christian advocate" "Extinguisher" goes so far as to denounce "the provisions of the Education Bill as the bane and curse of our fine province."

Such language might be all very well, considering the particular political quarter from whence it emanatés; hut when we find the editor of a respectable journal in this city condescending to an acknowledgment of some educational pamphlets in uncourteous flippant terms like the following, we are at a loss what to think: "Politeness compels us to acknowledge the receipt, from the

Education Office, Toronto, of several tive books. The postage was also paid, some seven or eight sillings, we presume at the expense of the people of Canada. We had alsays supposed the blue books of Dr. Meilleur to be the greatest bore in the province, until we laid hold of those of Dr. Ryerson. It will be a long time befure any one will make us believe that the compulsory system of Frussia and the German powers is suited to a British people."*.
Nor have mattersstopped here, for,--to return to Upper Canada,-we find more than one municipal council gravely stultifying themselves by praying for either the total repeal or entire modification of the present system, on account of the expensiveness and usciessness of its superintendency, and its inapplicability to the circumstances of the country; and in one instance recommending, as an improvement! the engaging as teachers of men whose "physical inabilities," and "decaying energies," render teaching a suitable occupation for them; and further, that emigrants may be employed until "their character and abilities are better known, and can be turned to better account !" $\dagger$

Now, while entering our protest against such sweeping objections as these, and more particularly against the injustice of at once visiting the defects of a system so recently sanctioned by the Legislature, and therefore still new and untried, upon the heads of the practical superiutendents of the day, we are free to adinit that there is still room for considerable improvement in the presentschool bill; but far from regarding the superintendents, whether provincial or districtal, as either expensive or useless, we look upon them as indispensable, and, in fact, the very life and soul of the system; and even go further, (following the example of more than one enlightened European statesman) in considering national education a matter of such paramount importance, that we conceive that far foom the chief superintendence, resting, ex-officio, on an already over-burthened provincial secretary, as with us, it should be vested in an olficer havit.g no other duties to perform, and who should be recognized as a "responsible,", though, for obvious reasons, unpolitical member of the government. $\ddagger$

Lest, after all, the foregoing observations should not prove sufficiently convincing or explanatory, we further beg to refer our readers to the following unobjectionable quotations from Dr. Ryerson's special Report of the measares adopted for the estabhshment of the Provincial Normal Schbool, (which has since so auspiciously taken place at Toronto) as well as for carrying into effect, generally, the commor school system,-intended, as it evidently was, in reply to a few of the objections which

[^1]had been so unsparingly raised against the system placed under his superintendence.

It is not possible to pass a law against which oljections would not be made from some quarters, and the introduction of the best law is necessarily attended with some inconvenience. When the Common School Act of 18.43 superseded that of 1841, so serious was the derangement of the whele echool sysien of Upper Canada, that many of the provisions of the Act of 1843, could nut be carried into effect during the firs: j car of its existence; Trus tees, in many instances, could not be elected as required by the Act, the Chief Superintendent of Schools, by order of the Governor in Conncil, found it necessary to excrese an arbitrary discretion in disposing of many cases brought befure him, withont regard to the requirements of the Act; no Sehool Reports for 1843 were presenied to the Education Office, in consequence of the passing of that Act, and consequently the data contemplated by the ret for apportioning and distributing, and naying the Legialative School grants for 1814, were wanting. Under snch circumstances, there was much cmbarrassment and confusion, and in some cases, serious loss is individuals.

It would not have been surprising. then, if some confusion had attended the transition from the late to the present School Act. But I am not axare that such has been the rase. The machinery of the new Act has gone into operation withut occasioning any derangement of our School affurs.
When the School Law in the neightoning State of New York was first established, many Schoul distriets, and even countics, oc. fised to act under it ; but l know of no example of the kind in Upper Canada, notwithstanding the efforts of a section of the pub. tic press to create such opposition at the time the Act was about to come into operation.
The digsatisfaction created at the time was not ograinst the pro. visions of the Schosi Act, but against what certain parties repre. sented to be its provisions, before its general distribution; not against its operations, but against what certain parties represented wonld be its operations, However, the circulation of the Act itself, and its actual nocrations, have corrected most of the false imoressions which had been produced by misrepresentations.

It has been found, that so far from the 'Trustece having no power to employ a 'leacher without the permission of the Chief Superintendent, they have more power than had been conferred upon School Trustees by the former Act, and can employ whom they piease, and in what, manner and for what time they please; that so far from the Board of Education interfering in matters of conscience between parents and children, and compelling parents to forego cheup, and bur dear school books, the Board has no aut. thority of the kind, and has employed its best exertions to bring within the reach of all parents cheap as well as good books; that po far from the Chief Superintendent of Scliools having authority to introduce what bonks he pleases into Schools, he his no authi. rity whatever in respect to introducing books, and so far from having power to employ and dismiss School Teachersat his pleasure, he has no power to employ a Sciool Tcacher at all, or even to give him a legal certificate of qualification; that he has no power to interfere in the affairs of any Schonl Section, unless up. pealed to by some party concerned; that his decisions bave in no case this zathority of a Court of Law; that both his power and his duty relate to recing the conditions imposed by the legislature, fulfilled in the expenditure of the Legislative School Grant ; that his power is much less than is given to a similar olficer in the neighbouring State of New York, and is an accumulation of labour, and not an exercise of any arbitrary authority ; that every, act of the Chier Superintendent of Schools is subject to the authority of a Government responsible to the Legislature of the country. But while the constitution of the Board of Education has been ostensibly objected to, I believe the real objection is rather against that with which the Board has been identified, ramely, the: prohbition of United States School Books in our Common Schools: It seems to be supposed that if there were no Board of Education to recommend books to be used in Schools, there would te no exclusion of American Books from the Schools.
The fact, however, is, that American School Booke, unless permitied by the Board, are ercluded by the 30 th section of the Statute; whereas the Board of Education is constituted by the 3rd Scetion.
In regard to the exclusion of American Books from our Schools;

I have explained, as I have had opportunity, that it is not because they are forcign books simply that they are excluded, although it is patriotic to use our own in preference to foreign publications ; but because they are, with very few exceptione, anti-British, in every sense of the word.'

They are unlike the School Books of any other enlightened pcople, so far as I have the means of knowing. The School Books of Germany, France, and Great Britain, contain nothing hostile to the institutions, or derogatory to the character of any other nation. I know not of a single English School Book in which there is an allusion to the United States, not calculated to excite a feeling of respect for their inhabitants and Government. - It is not so with American School Books. With very few excsptions, they abound in statements and allusions prejudjeial to the institu. tions and character of the British natinn.

Another ground of opposition, in some quarters, to the present Schoul Act, is, the exclusion of Alicn Teachers from our Schools. I think that less evil arises from the enployment of Alaizizaz 'Teachers, than from the une of American School Books. Some unquestionable friends of British Government, and deeply inte. reafed in the cause of popular education, represent that the clause of the Act not allowing legal certificates of qualification as Teachers to Aliens, operites, in some places, injuriously to the interests of Common Schools, as Aliens are the best Teachers that can be procared in those places. The provision prohibiting the qualification of Aliens as Common School Teachers constituted the 37th Section of the School Act of 1843 ; but as it did not take effict until 1846 , it has been crroncously identified with the present Act in comtradistinction to the late Act. Trustees and parents can employ Aliens or whom they pleasc as Teachers; but bolls the late and present School Act confine the expenditure of the Scheol furd to the remuneration of Teachers pussessing legal certificates of qualification. Whatever may be thought of the wisdons or expediency of the clause restricting legal cerificates of qualification to natural-born or naturalized British subjects in the first instance, I believe the public sentiment is against its repeal, and in favour of having the youth of the country taugint by our fellow-subjects, as well as out of our own books.
There is, observes Mr. Ryerson, another clause against which I have been informed, more repugnance is felt tima against any other provision of the Act; namely, the latter part of the fifth clause of the 27th Section, in the following words; "And before such Trustces, or any one on their behalf, shall be entitled to reccive from the Distiict Superintendent their share of the Common School fund, they should furnish him with a declaration from the Secretary Treasarer that he has actually and boná fide received, and has in his posscssion, for the payment of the 'leacher, a sum sufficient, with such allowance from the Common School Fund for the purposes aforesald."

The only objection of which I am aware against such a requircment by the Legislature, as a conditson of paying its bounty, is, that parents are not able to pay the Teacher's quarterly fees. But is not each parent more able, and is it not much more reasonable that he should be required to pay the few shillings quarterly fees due from him to the Teacher, than that the poor Teacher should be deprived of the punctual payment of the aggregate amount of School fees due him? In addition to the claims of justice, ujon the ground of labour performed, the argument of need is mueh stronger on the side of the $T$ eacher than on that of his employers.

My strong conviction is, that this least popular clause of the Act-though attended with some opposition, and perhaps inconvenience in some cases, on its first introduction-will ullimatcly, if allowed to remain, prove s great boon to 'leachers, a great help to Trustces, and a great benefit to Common Schools.

Some attempts have becn made to cxcite opposition to the Act by'representing the system as compulsory; and that education should be left to woluntary effort. The duty of the State to provide for the education of its population has been admitted and avowed by every constitutional government of Christendom, as well Republican as Monarchical; and I do not think the Government and Legislature of Canada will abandon their duty in this respect to gratify the selfishness of some wealthy individuals, or the ultraism of certain partizans. But our syetem of Schools is not compulsory, in the sense in which that term is applied to des potic governments, The vote of the Parliamentary grant is the voluntary Act of the people, through their Legislative Representatives, the reception of a part of that grant and the levying of an
asscssment is the voluntary act of the people in each District through their Cuuncil Representatives; the reception of a part of the School Fund by any School Section, and the levping, of $a$ Rate-bill, is the voluntary Act of the people in such Section.: throngh their Trustec Representatives; in addition to which, the present Act does not require Trustees to levy a Rate-bill at all. but authorises them to adopt voluntary subscription, if they prefer it, and then cnables them to colleat the amount of each voluntarys. subscription as promptly and in the samemanner as if it had been imposed by Ratc.bill.

An objection has been made from another quarter, that tle Act does not glve to the Clergy suficient power as School Visitors. I know not what greater power could be miven to the \% Clergy without destroving the School System; and I belicreany Clergyman who diligently and judiciously cxercises the posver. given him by the Act, will find himself able to dr much good. If any Clergyman will not avail himself of the facinties which" tise Act affords him of encouraqing and influencing the education: of Canadian youth, because it does not give him it positive control in the Schools, which cannot be zevered from their Trustecs and Pruvincial management, it is to be hoped that fow will imi." tate lis example, but that all will infe into consideration the soms cial condition and circumstances of the country, and contribute a their pious and appropriate exertions to adyance its general welfareso

Such are the principal objections which I have hiard urged against the present Comrson School Act. Some of them it will ${ }^{4}$ be seen, arise from oppesition to any public School system what: ever; others are founded upon misapprehensions produced by misrepresentations ; others again relate to clauses which, it is to. be hoped, will soon be amended; while vthers proceed from fo-" reign predilections, and not from any thing unusase in the provisions of the Act. With some prorisions for the better establish.. ment and maintenance of Common Schools in Cities and 'rowns, and the amendment of certain clauses of the Statate, $l$ think action, rather than legislation, is requircd to promote the instruction of the rising generation; that the law should not be changed without a tia!; that improrements, as occasion may require, rather* than revolutions, should be made in the School System; that ex.t. perience is a safer guide than speculation in this most important. department of legislation and government. I think the foundia. tion laid ought not to be subverted or shaken; the crection, and completion of the superstructure must be the work of time as well as of persevering industry.
In fine, observos the Rev. Superinteudent,-in reporting the meane cmploged to bring the various provisions of the New Schuol Act into operation, I bave thought it proper thus to notice the chief objectroms which have been made against some of its provisions; and the grounds of such objections. From the increased interest. which is felt and manifested in most parts of the Province on the subject of public Education, from the obvious improvement which is reporfed as progressing in the organization and management of the Schools in several Districte, and from the decline of party fecling and the cultivation and growth of practical and intelligent. sentiments among the people, $t$ hope to be able, in subsequent Reports, to present sonic substantial frits of the excrtions of the Legisiature and Government in prometing this most vital and general interest of our common country

To the above copious extract we consider jt an actof justice to add, that had Dr. Ryerson vain-gloriously attempted to foist off the system, advocated by him, bs, original, and emanating from himself, some offence might: have been fairly taken at his presumption; bit, so far from this being the case, he took the very opposite" course, nearly one-balf of his general Report being, in all candour, composed of unwearied thankflacthow. ledgements, and quotations from the writings, sayings. and doings of the most experienced and enlightened educationalists of every country visited by him, with the: view of enabling his readers to judge for themselves? while he contented himself with avowing his own conviction, that if the system is allowed to have time to be well understood, it will be found to operate to the entiré satisfaction of the country.

Having so far done justice to Dr. Ryerson, we now proceed to the discharge of a similar duty to the public, in candidly pointing out wherein we regard the provisions of the Legislature, as well as the disposition of the people in favour of successful general education, as falling altogether short of the desired mark ; and this we shall endeavour to exemplify in at least three remarkable instances, zamely :
1st. The utter neglect, still manifested, of the just claims of common school teachers to far greater consideration and more substantial remuneration, as a highly respectable; influential, and important class of men;

2nd: The extraordinary manner in which the urgent moral propriety of, as far as posible, providing for the education of the female sex, in separate schools, is almost entirely lost sight' of;

And 3rd. The remarkable farí that the establishment of district grammar schools, on a suitable liberal foundaion, "as' the higher of the two branches of primary instruction, and the great connecting link between an elerientary or common school, and a university education, though the first to be provided for, should have been shuffled off for half a century, and still remain in an embryotic state;-forit cannot be supposed thateither the late generally miserable district schools, or the present coneracted grammar schools, were intended to supply their place, - while the less urgent claims of a university, destined for the exclusive benefit of the higher and richer portion of society, who can best afforl any extra expense, should have been unceasingly agitated and forced on to precocious maturity, until, hecoming the bane of contention among rival political and sectarian parties, it has more than once convulsed the province, and threatened to shake the very government to its centre.

As these are rather serious charges, it would have been very:desirable to have been able to take a rather extended view of the grounds on which they are based. although only partially connected with the documents before us; but our space not allowing of such a step at present, we are constrained to refer our readers to such parts of the widely circulated Reports on education as bear upon them, and to content ourselves with prefacing our first objection by a brief outline of the noble scope of the otherwise highly promising elementary system now in progress, and then proceeding to the demonstration of the impossibility of the expected results, being realized, from the inadequate means and instruments at present employed:

In few words, then, be it remembered, that it is intended that our provincial system of primary instruction should be universal, i. e., embrace the whole body of the people; that it should be practicable; that it should be founded on religion and morality ; and that it should develope all the intellectual and physical powers, and should therefore provide for the efficient teaching of the following subjects, viz. 1st, biblical history and noralty; 2 2nd, reading and spelling ; 3rd, writing; 4th, arithmetic; 5th, graminar; 6 th, geography; 7th, linear drawjag; 0th, vocal music, 9th, history; 10th, natural his-
wory, 11h, natural philosophy; 12 h, agriculture; 13 h,
"human physiology; 14th, civil government; and 15th, political economy.

So vast an array of branches of mere elementary education, may perhaps startle those who have not been accustomed to look deeply into such matters, and may even be considered by some as altigether visionary ; but whatever doubt may exist in this colony of the practicability of so comprehensive a course of instruction being realised, must be at once set at rest by the convincing reply made by the Provincial Superintendent-that the whole of these suljects are connected with the wellbeing of the community, and should therefore be made accessible to then in the common schools; and that if the higher classes are to be provided with the means of a university education, surely the common people, the bone and sinew of the country, should be provided by the State with the means of the best common school education : and, farther, that as all the branches above enumerated have been and are taught in the common schools in many other countries-in the mountains and valleys of Switzeiland, in the interior and not fertile and wealthy countries of Germany, in many parts of France, in many of the schools of Great Britain and Ireland, and in a considerable number of the Enstern and Middle States of America, surely what has been done and is d:ing in so many other countries in respect to elemen. tary education, may and onght to be done in Canada.

Taking for granted then, that such is the true state of the case, and that such are the results that ought to be expected from a well organized provincial system,' it becomes a matter of great importance to enquire how far the means and instruments at present applied, are likely to prove adequate to the accomplishment of the noble end in view; and if such be done, we hesitate not to aver, that the answer of every reflecting man will bethat it will be morally impossible, so long as the common school-master occupies his present degraded positionwhether we regard the emoluments of his highly important office, or his general status in society-and that, too, in spite of the institution of the best Normal and Model Schools in the world.

As very justly observed by M. Guizot, the able Prime Minister of France, on introducing the law of primary instruction to the Chamber of Deputies in 1833:
"All the provisions hitherto descriucd would he of none-rffect, if we took no pains to procure for the public School thas constituted an able Master, and worthy of the high vocation of instruct. ing the pcople. It cannot, be tow olten repeated, that it is the Master that makes the School. What a well-ussorted union of qualities is required to constitate a good Master! A good Master ought to be a man who knows much more than he is called upin to teach, that he may teach with intelligence and with taste; who is to live in an bumble spliere, and yet have a nuble and elevated spint, hat he may preserve that dignity of mind and of deportment, without. which he will never obtain the respect and confi. dence of families: who posesses a rare mixture of genileness and firmness; for, inferior though he be, in station, to many individuals in the Commitnes, he ought to be the obsequious servant of none; a man notlignorant of his rights, but thinking much more of his duties; shewing to all a good example and serving to all as"a counsellor; nut given to change his condition, but sutisfied with his situation, because it gives him the power of doing good, "and Who has made up his mind to live and to die in the service of prio mary Instruction, which to him is the service of God and bisfel. low creatures. To rear up masters approuching to such a model is, difficult task, and yet we must succeed in it, or we lave done nothing for elementary instruction. A bad Schoolmaster, like, a bad Priest, is a scourge to a Commune; and though we are offen
obliged to be contented with indifferent ones, we must do our best to improve the average quality.

And how, let us ask, is this work of regeneration to be accomplished with us?-certainly not by the mere creation of Normal and Model Schools, unless the future emolumentary prospects held out be such as to induce men of a respectable station of life, and more than sulficient preliminary education to become candidates for the arduous and responsible office of teacher; yet, what has often hitherto been the tempting average income of the common schoolmaster, derived from the public bounty, local assessment, and school-fees, united?-no less a sum than from £20 to £30 per annum !-a pittance which the most illiterate field-labourer would spurn with contempt. The first grand step, then, towards elevating the teacher to his true position in societs, is to be very particular in the selection of well qualified persons, through the medium of either a Provincial or District Board, after having gone through a proper Normal training; but that ordeal passed; the next step is to encourage the successful candidate to regard the office of teaching with enthusiastic attachment, and as the honourable profession of a life, by ensuring to him a far more respectable minimum remuneration for his valuable services, and at the same time opening a door for further promotion as the reward of superior merit. Let this be liberally done, and that must, in a great measure, rest with the people. and you at once elevate the teacher to his legitimate respectable position in society, by the side of the clergyman and the gentleman of his locality.

On this important point, a Committee of inquiry, appointed by Sir George Arthur in 1840, and to whose labour's we shall have frequent occasion to refer, makes the following very just observation:-"The first step towards the amelioration of Common. Schools, is to ameliorate the condition of the master. At present thes have reasn to believe that but too many teachers are unfit for this responsible station, from the want of literary or moral qualification. The catise of this, they believe to be, the inadequate remuneration held out to those who embrace the occupation. In this country, the wages of the working classes are so high, that few undertake the office of schoolmaster, except those who are unable to do an thing else; and honce the important duties of education are often entrused tó incompetent and improper persons. The income of the schoolmaster should be at least equal to that of the common laborer: and until some provision of this nature is made, it is feared it will be in rain to expect a sufficient supply of competent teachers."

In allusion to the same subject, Dr: Duncombe had, (four years before) very jusily observed in his Report on Education, that he was much inclined to belicve that "'as is the master, so is the child;" and that as the lame and lazy, hecause they would work cheap, were entrusted with the promotion of the minds of our youh, they would, to a certain extent, copy their masters and though their bodies may not limp, their minds will be both sluggish and deformed. Hence the necessity of having teachers correct, gentlemanly persons, well prepared for their arduous, responsible office, and fit models for the youth of the country to imitate, And
further, that a system of elucating, furnishing and liberally pasing a sufficient number of competent teachers, commensurate with the wants of the people, must be adopted, and publicly and zealously supported. The situation of the schoolmaster must be rendered respeetable, and reputed to be an honourable employment, that gentlemanly, competent persons may seek it as a business for life.

It is singular that the absolute necessity of elevating the teachers in the scale of society, does not appear to have been yet sufficiently appreciated by our American neighbors of New York, although the following excel: lent observations on the subject, were made by the Chief Superintendent of that State so lar back as 1834:"An enlightened appreciation on the part of the inhabitants of districts generally, of the functions and responsibilities of teachers-a determination to secure the highest order of talent, and to provide on adequatecom. pensation, and a disposition to elevate the character, and advance the social rank of the teacher, by assigning him that station in the regards of the community which is due to the dignity and utility of his profession, may be regarded as indispensable pre-requisites in the success of any system which contemplates the scientific prenaration of teachers.*
The same subject has also more or less engaged the attention of other States of the Union, and among them the young State of Michigan became at once deeply impressed with the necessity of so important a steps, as evinced in the following remark by its first superintendent, as far back as 1837 : $\dagger$ "Without competent teachers, the most perfect system of external organisation must be powerless ; must utterly fail of accomplishing its object. The truth is, education is to be regarded as a science, for it has its distinet sulject, and distinct object, and is governed by its own peculiar laws; and has, like other sciences, its corresponding art, the art of teaching. It may; then, be pertinently asked, on what principle of common sense is it that a man is considered good enough for a teacher, becatise he has satisfactorily proved himself gool for no one thing else?. Why is it that the utter want of health to exercise:any other profession; is frequently the only reason why a man should be thrust into this, which requires more active mental labour in the discharge of its duties than any other profession whatever? Alas, it is not by teachers such as these that the intellectual power of a people is to: be created." And further: "It is uttenly impossible to elevate the schools, and make them whiat they ought to be, without elevating the character and rank of the teachers." $\ddagger$

[^2]With regard to the feeling entertained on this important subject by the first statesmen on the continent. of Europe, it is only necessary to add to what is adduced by cur own rev. superintendent, that both M. Cousin and M. Guizot cordially subseribe to the policy of that part of the Prussian system by which not only is the school master raised to a functionary of the state, and, as such, has a right to a retiring pension in his old age, but there is formed in every department (or district) a fund for the benefit of the widows and orphans of school masters, which the law rather recommends than enforces; and that the same feeling prevails throughout Germany, as well as Switzerland and Holland, and is rapidly gaining ground in Britain, but more particularly in Scotland, where a grand move has lately been made in the right quarter by the teachers themselves. We allude to the great professional Association of school teachers in Scotland, formed in. Edinburgh in the month of Seprember last, at the auspicious organisation of which not Jess than between six and seven hundred teachers were present.*:

Various unreasonably econonical estimates have been formed of what might be regarded as a fair medium compensation to common school masters, ranging from $£ 40$ to $\boldsymbol{E} 70$ per annum ; but we unhesitatingly pronounce even the latter as far too low, and regard nothing less than from $£ 90$ to $£ 100$ as sufficient, particularly when it is considered that though the school act empowers municipal councils to raise funds for the erection of teachers? dwelling houses, as well as schools, no such accom. modation has yet in general been furnished; whereas the poorest parochial school in Scotland must have at least one room and a kitchen attached to the school room, for the accommodation of the teacher's family. Even in that country, however, the respectable position on the teacher has long been on the wane; the income of a parochial school-master 150 years ago having been nearly on a par with the clerf, whereas the average income of the former is not now more than £55, while the minimum stipend of the latter is $£ 150$, exclusive of manse and glebe. At all events, there should be a total revisal of that clause of the school act which insists on thirty children: at least attending school to entitle the teacher to a share in the government bounty; whereas,

[^3]that being a matter over which he can have no control, there should be a minimum teachers' salary, whatever may be the population in each school section, which also should be limited to a certain extent of country; and wherever either the population may be so sparse, or the inhabitants so insensible to the blessing of education, as not to turnish even ten scholars," a school should nevertheless be established, and the master paid the regular quota of government allowance and assessment; and whatever that joint amount may fall short of the minimum salary should be made up from the school fund. At the same time, no deduction whatever should be made from any extra emolument derived from a flourishing school ; these being only to be regarded as a fair equivalent for extra labour, and being sure to act as a stimulus to laudable emulation, as well as greater personal exertion on the part of the teacher, on behalf of the general spread of education, in his respective neighbourhood.
Much more might readily be added on this very important head; but we are compelled to forbear for the present, that we may pass on to the notice of the extraordinary manner in which the Legislature, as well as the Rev. superintendent, have all but lost sight of the urgent moral propriety of encouraging, wherever practicable, the establishment of schools for female children, conducted by well qualified teachers of their own sex, altogether distinct from those for boys. This is the more remarkable considering the very great interest taken in this truly important and interesting class of schools by our American neighbous, as well as in Di. Duncombe's report on education, a document of considerable value (whatever may be the questionable moral or political character of the writer), and with which the leading features of the present system generally coincide. That our readers may judge how far this observation is well founded, we beg to refer them to the Superintendent's Report, as well as the school act, where they will find that this highly desirable class of seminaries is almost entirely overlooked in the former, and only slightly glanced at in an appendix; and that the Legislature seem to have been equally indifferent to the subject; the only reference to it in the Upper Canada school act being in the 42 d clause, making it "lawful" for any District Council to authorize the establishment of "both a male and female school in every school section, $"$ and in the 44th clause interpreting the word teacher as including both sexes; whereas a little more stress is laid upon it in the Lower Canada act, the 30th clause of which not only expressly authorises school commissioners of municipalities to establisti a girls school in each school district, distinct from that for boys, as a separate district; but even provides that if any religious community should have already cstablished a girls' shool for elementary education, "it may"be placed

[^4]under the management of the commissioners, from year to year, and be thereby entitled to all the advantages granted to common schools. As a contrast to this seeming indifference, Dr. Duncombe not only devoted several pages of his Report to describing and enforcing the propriety of engrafting this highly interesting and morally influential branch of common schools on whatever may be our provincial system, but suggested that one out of four normal schools proposed by his act should be exclusively devoted to the training of female tcachers; and it is but proper to add, that this great improvement was not lost sight of by the commission of inquiry appointed by Sir George Arthur in 1840; for in their plan for the institution of township model schools, they propose that there should be a male and female techer in each; and in the estimate of the probable expense of the general system recommended by them, a provision is made for a number of female equal to that of male teachers.

We might readily extend our observations on this important head, did our already nearly exhansted space permit, but we must rest satisfied with referring our readers for other interesting matter to the annexed note, as occupying much less room than would otherwise be the case," and hasten to a conclusion, by herc taking the

[^5]liberty of expressing our decided opinion, sanctioned by upwards of twelve years attentive personal observation and anxious reflection no the subject, during visits to various parts of the Province,-from Goderich to Quebec,-that the palpable oversight in regard to female teachers should inmediately be remedied, and that, wherever it can possibly be done, married teachers should at all times be preferred, for even boys' schools, especially should the wife be qualified for undertaking the charge of a girls' school, combined with the very youngest boys, on however limited a scale, in a room distinet from that under her husband.

We now arrive at the last branch of our observations, as regards Upper Canada, namely, the remarkable fact that the establishment, on a suitable liberal-foundation, of district grammar schools, as the higher of the two branches of primary instruction, and the great connecting link between an elementary or common school and a university education, though the first proposed to be provided for, should have been shufled of for half a century, and still remain in an embryotic state,-for it cannot be intended that the late miserable district schools, or the present contracted grammar schools, into which these have been metanorphosed, should supply their places;-while the less urgent claims of a university, destined for the exclusive benefit of the higher and richer portion of society, who can best afford any extra expense, should have been unceasingly agitated and forced on to precocious maturity, until becoming the bane of contention among rival political and sectarian parties, it has more than once convulsed the province, and threatened to shake the very government to its centre.
consmance with the tenderness of childhood." "A statement," observes an able British writer, "worthy of serions consideration in this eountry, (i. e, Britain), where employment suited to women of cultivated minds and polished manners, are greatly wanted." Seo Ediaburqh Reviriw, volume 73.

In the state of New York, also, the emmmitice on education made the following apposite remarks on the same subject more than twenty years ago: "The committec' have not been able to discover why, upon every principle nf justine and public policy, seminaries for the education of females in the higher branches of knowicdge should not participate in the public bounty equally with those for the instruction of males." Sce Randall on Com-mon Schools, page 40.

Althongh we have already alinded in general terms to Dr. Duncombe's observations on this subject, we are induced to add the following, as a finule to this protracied note: "While upon the subject of normal schoosle, I cannot conprehend why schonls for the education of female teachers may not prove equally advantageous to the cause of cducation, and the happiness and ornament of socicty." And he elsewhere adds: "When we consider the claims of the learned professions, the excitement and profis of commerce, manufnctures, agriculture, and the arts; the aversion of most men to the sedentary, foilsome daties of teach. ing and governing young children, the scanty pittance that is allowed to the majority of teachers, and that few men will enter a business that whll not eupport a family, when there are multitudrs of other employments that will afford a competence and lead to weath, it is chimerical to hope that the supply of teachers is to come chiefly from that sex. It is women, fitfed by disposition, and habits, and circumstances for such duties, who, to"a very wide extent, must aid in educating the childhood and youth of this province; and therefore it is that females must be trained and educated for this employment. And most happily, it is irue, that the education necessary to fit a woman to be a teacher, is exactly the one that beat fits her for that domestic yelatign which she is primarily gasigned to fill,

In repeating this strong allusion to the still unsettled state of the university question, it is neither nur wish nor intention to enter into any discussion of its disputed merits, whether moral or political. It is sulficient to have avowed our decided conviction that the paramount prior claims of grammair schools, as of far greater importance to the people at large, have been entirely lost sight of, and sacrificed to the over-zealous promotion of that one laudable object, for the benefit of a particular class; and we even indulge a hope that we shall not raise our humble voice in vain in favour of the speedy correction of so unjustitiable a procedure.*
That our readers may be aware that we are not arguing upon false or untenable premises, we beg to remind .tiem that His late Majestr, George III., was gracionsl, pleased, so far back as 1798, to allot funds-"first, for the establishment of Free grammar schools in those districts in which they were called for; and, in due process of time, the establishing of seminaries of a larger and more comprehensive nature, for the promotion of religion and moral learniug, and the study of the arts and sciences;", and that it was consequently arranged by a Provincial Board, that one half of this fund should be devoted to the former, and applied-l st, to the erection of the necessary buildings; 2nd, to the payment of the salaries of the masters; and 3rd, to the keeping of the buildings in repair, and the purchase of books and philosophical apparatus." Instead, however, of measures being taken to carry this arrangement into immediate effect; so much was it gradually lost siglit of, that in 1809 an act was passed by the Provincial Legislature, making a specita grant of $£ 800$ per annum for four years, for the establishment of one public school in each

[^6]district, upon an entirely different foundation, as simply allotting a salary of $£ 100$ to the masters of each, without making any provision for buildings. \&c. And hence the origin of our late district schools;-a kind of seminary altogether distinct from the intended royal grammar schools, as was in fact expressly admitted to be the case by a committee of the Executive Council in 1819, when, on the endowment of a university becoming the more favoured grand object, they declared that a provision for district schools was no longer required from the sume fund, being made by the Legislature; at the same time that they considered more than double the original grant for a university required for the mere erection of a suitable building, and providing a library, philosophical apparatus, and botanic garden; besides an annual outlay of $£ 4000$, to defray the expense of professors' salaries, \&c. \&c.

No wonder, then, that, on the claims of the royal grammar schoois continuing distegarded for twelve years longer, a select committee of the House of Assembly, in reporting on the school londs, could not then refrain from being struck with the singular fact, that "no apparent benefit had resulted to the inhabitants of the country from the school reservation for upwards of thirty years, and suggesting the inmediate institution of no less than eleven district grammar schools, at $\mathcal{E} 400$ per annum to each, and twelve subordinate, or township schools, with $£ 50$ to each ; at the same time that they expressed their aversion to an expensive endowment for a university, until the original intention of founding a free grammar school in each district lud first been carried into effect.*
*The following are the Resolutions passed on the occasion :-
"Résolyed, That His Majesty, in the year 1797, was graciously pleased to communicate to the Government of this Province, by a Despatch from His Grace the Duke of Portland to Mr. President Russoll, in answer to a joint addies of the Legislatare, His Majesty's intention to set apart a certain portion of the waste lands of the Crown, as a fund for the establishment and support of a free grammar school in those dictricts in which they are called for, and in due process of time to establish other seminaries of a more comprehensive nature."
"Resolved, That although more than thirty years have elapsed since His Majesty made this most gratitying communication, it does not come within the knowledge of this Ironse, that even one frec grammar school has been endowed from these lands, or any other seminary established out of that reservation."
"Resolved. That the establishment by the Legislature of a public school in each district, with a salary of one hundred pounds currency paid out of the Provincial Treasury to tho master, does not afford sufficient means to instruct the youth of the province in the several branches of classical and scientific learning, and ought not therefore to be considered as a reason for withholding the support which His Majesty intended for the District Grammar Schools."
"Resolved, That it is must important to the contentment and welfare of the people of this province, that the school lands be appropriated to the purposes for which they were originally in. tended, and immediate steps talsen to represent to His Majesty's Government, that the several Districts, from their extensive and rapidly incrossing population, are now in a state to require the establishment of free grammar schools with a suitable endownent, which schools, if incorporated with the present district sehools; would afford the means of respectable support in a master and two assistants in each, and thereby enable the inhabitants genio. rally to confer the blessings of a liberal education on their children, and find employment as masters for such of them as may lie found to have made the necessary proficiency in the acquirement of classical and scientific knowledge:"

From that period up to the present time, if our memory is correct, the only successful Legislative attempt made in favour of the great desideratum advocated by us, was in 1841, when an Act was passed authorizing District Schools to be henceforward considered as Grammar Schools, as contempluted by His late Majesty George III., and allotting $£ 100$ for furnishing an additional master, and other means of instruction, and £200 for the erection of a school-house, provided an equal sum should be raised by the inhabitants; and also $£ 100$ more per annum for the establishment of two other subordinate Schools in any part of each District, on the inhabitants providing a suitable school-house, with at least 50 (now reduced to 30) scholars; and further offering to extend a similar bounty to even four such schools in each District: but not one word refering to the original far more suitable and liberal provision made by the Royal donor, in favour of Grammar Schools-in precedence of all other Educational Institutions; And thus, in fact, stands the question at present.

Having proceeded thus far, we now consider it advisable to take a more distinct, though cursory retrospect of the various plans proposed for carrying the establishment of Grammar Schools into elfiect. The first was matured in 1798, by a-Special Provincial Board, consisting of the Executive Council, and the Judges and Law Officers of the Crown, who came to the following coaclusion :-
"When the subject was first opened, it seemed to be the unanimous opinion, that the intention of the Royal Founder of the free Grammar Schools and University of Upper Canada, could not be effectuated, but by a liberal provision for their estab, lishment and maintenance; and each member of the board seemed decply impressed with a conviction, that in making his cstimate of the extent of that provision, it would be much safer to allow too much than too litile; for as the application of the funds will always be directed by the beneficent wisdom which has created it, the excess may at any time be applicd to other purposes, equally worthy of the original intention, aud equally conducive to the happiaess of the Province; but it will be difficuilt and perhaps imposible, if the present moment be neglected, to find at a future period the means of effecting the object before as, withont much expense and a delay almost subverive of the purpose.
Under this impression, the Board procecded to consider in detail tho purpises to which the proposed fimd should, when raised, be applied, and seemed to bo unanimous in thinking that they may be reduced to three :
${ }^{1} \mathrm{st}$. The crection of the necessary buildings;
2d. The payment of the salarics of the masters;
3d. The keeping of the huildings in repair, the purchase of books and philosophical apparatus, and other purposes essential to places of education, but in gencral too costly to be provided by individuals.
1st. With respect to the sum to be expended on the erection of the necessary buildings, the Board conccived, that taking the average price of labour in the four Districts of the Province, the sum of ' $£ 3000$, provincial currency, will be sufficient to erect a plain but solid and substantial building, containing a Schnol ronns sufficient to hold an hundred brys, without danger to their health from too many being crowded together; and also a set of apartments for the master, large enough not only for the accommodation of his family, but aloo for the very desirable purpose of enabling him to take a few of his pupils as boarders. Some few outbuild. ings may also be necessary, for the use of the master, which, if they will not come within this estimate, will not much exceed it, and may easily be provided for hereafier.
$\because 2 \mathrm{~d}$. As the extent of the salaries of. the masters is expressly meserved for the Royal consideration, we do not presume to mention any particular sum as sufficient for that purpose; but as it is necessary for us in making our estimate, to calculate upon some given eum, and as His Excellency the Licutenant Governor,
thought the sum of $\mathbf{x 1 0 0}$ provincial currency, a sufficient allowance for the master of the school erected under his auspices at Kingston,-we beg leave to take that sum as the average for the salary of the masters of each school, and half of it for the salary of an under-master, in case it should be thought expedient to have one.
3d. The sum of $£ 30$ per annum seems to be a sufficient sum for keeping the building in repair; the provision for the purchase of books. philosophical apparatus, \&c., relates to the endowment of the University rather than to that of the Grammar School, and is only mentioned that it may not appear to have been forgotten in nur calculation:
It appeared, thercfore, to be the general opinion of the Bnard, thut a sum not excceding $£ 3000$ provincial currency, and an tmiual income of $£ 180$, will be amply sufficient for the establishment and support of a free Grammar School in each District."

The next explicit view taken of the subject, was in 1831, and has already been referred to in a previous page of this article in connexion with the foot-note thereto appended; but we cannot resist adding beneath a more extended extract from the juslly strong observations made in the Report of the select Committee of that period, already alluded to :-
"From this condensed view of the proccedings of the Execu. tive Comeil on the munficent provision for the diffusion of Education in this Province, the Committee are struck with the singular lact, that no apparent benefit has resulted to the inhabitants of the country from the school reservation, for a period of 30 years; and that the original intention of the Legislature, expres. sed in the joint Address to His Majesty, as well as His Majesty's most gracious desire to meet their wishes by the establishment of Frec Grammar Schools in those Districts in which they are called for, and in due process of time to establish other seminaries of a more ertensive nature, have hitherto, as far as your Committec can judge, been lost sight of; and for no other reason that your Committec can discover, than that a School has, by an act of the Leamislature; been already established in cach District, with a salary of $£ 100$ to the master. But this very limited provision, your Commitice respectfully submit, ought not to deprive the people of their just claim to a participation in the benefits of the School Linds; and to that end the Committee suggest, that the House nught now to address His Majestr, setting forth the great value of these lands, and the ample means which they afford to carry into cffect the benevolent intentions of His late Royal Futher, by an endowment from their proceeds for each District of at least $£ 400$, which added to the present appropriation wonld support cleven respecteble seminaries, where the youth of the Province generally might receive a liberal education without being removed many hundred miles from the tender care and watchful autharity of their parente, as must be the case if thoss lands are exclusively apphed to establish and support. King's College or any other extensive University, which can only bo viewed as of henefit to thuse whose wealti enables them to bear the great expeusc of sending their children to the capital of the Province."

With such strong and authoritative opinions on record as the above, it might have been rcasonably expected that some decisive action on so important a subject, would have ere long been taken; but alas! such was the fatality attending every movement in its favour, that nothing farther was done till 1840, when the Commissioners appointed by Sir George Arthur to inquire and report on Education, as a branch of the Public Departments, felt constrained to take some notice of Grammar Schools, but in terms that seemed rather to imply, that they regarded them as actually in existence, and the system requiring amendment, than as being in reality still in embryo-unless, indeed, the District Schools were already considered to have usurped their place. In a subsequent part of their Report, however, the same Committee expressed a more tangible opinion with regard to
the erection of Grammar school-houses, when they recommended a fund of $£ 5000$ each for that purpose, to be raised jointly from the school lands, taxes, and shares. But there the matter ended.
The last abortive Legislative attempt in favour of Grammar Schools, took place during the late Session of Parliament, on the unsuccessful introduction of the awfully perplexing University Question; when, among other things,' it was proposed that a sum vielding f350 per annum should be set apart from the Education Fund, or University spoils for the establishment of a respectable Grammar School in each District.* As far as the amount of that allotmeni, and the purposes contemplated are concerned, we readily concur in the arrangement; but not. as in any respect connected with the settlement of the University Question, with which we conceive the provision for Royal Grammar Schools has nothing to do-these institutions having an entirely distinct, as well as underiably prior, claim upon the Legislature, entitling them to be taken into altogether separate consideration, as the first great educational boon bestowed by the Sovereign on the people of Upper Canada.

We have so very far exceeded the limits which we had prescribed to ourselves, that we are reluctantly compelled to postpone the conclusion of our remarks to a future occasion, and we find it the more convenient to do so at this stage of our observations, as we propose that the sequel should bear principally on the state of things in Lower Canada, or at all events, be equally applicable to both Provinces. All, then, that remains to be added in concluding the present article is, that we have been led to lay so much stress on the nersevering Legislative neglect of the Upper Canada District Grammar Schools; from viewing them as the legitimate higher branch of general primary instruction, to the advantages of which every citizen's child may justly aspire, without aiming at a superior and more expensive Professional or University Education, and which was, therefore, intended to be placed within the reach of every respectable settler in every District of the Province; and consequently, regarding it as of great importance to the people, that the - long-continued injustice and neglect which have been shown towards this solid, yet ornamental branch of popular instruction, should be brought conspicuously before the public at this particular crisis; so that our new Representatives may have no excuse for either again overlooking or postponing a definite arrangement on the subject at the approaching meeting of Parliament. Should our efforts be crowned with the success which so great and excellent an object deserves, we shall ever look back with satisfaction at having humbly led the way in so good a cause. Should ive, after all, be destined to fail, we shail still indulge the hope that we have not struggled

[^7]altogether in vain; and even at the very worst, we may be allowed to assume as our motto-that we have failed in a laudable effort; or, in more classical phrase-

Magnis tamen excioit ausis.
L.

A new Medical Dictionary, containing an Explanation of the Terms in Anatomy, Plysiology, Chemistry, \&c., \&c., with the Formulas of the Principal Pharmacopeias, and Valuable Articles on the Treatment of Disease, on the Basis of Hooper and Grant, Adapted to the Present State of Science, and for the use of Medical Students and the Profession. By D. Pereira Gardner, M.D., \&c., \&c. New York: Hooper \& Brothers. Svo. Pp. 686.
Dictionaries are invaluable works of reference, and should therefore occupy a place in every library. The work of Dr. Gardner is a decided improvement on that of Hooper and Grant, and furnishing the meaning and etymolngy of almost all the words at present used in scientific works, it presents itself on these grounds to the favourable notice of the profession at large, but especially to students, whose labours it will most materially assist, and to 'both of whom we cordially recommend it.

## PRACTICE OF MEDICINE AND PATHOLOGY.

On the advance of the Asiatic Cholera; with suggestions for its Treatment.-By Charles W. Beli, Esq., Manchester. -The near approach of cholera, ingether with your challenge to the profession, to determine upon the principle which is to guide the treatment of that disease, induce me to venture on expressing the views which peculiar circumstances, and much experience of its management, have led me to form; and to state the practice which, all throughout the progress of the cholera that appeared in Persia in 1842 and 3 , proved successful in some thousand cases.

It is true that the type of disease in that epidemic was mild in the generality of cases, but it was the commencement of the identical cholera that is now approaching us; and, if changed now, is changed probably only in degree, not essentially in its nature; and as treated by the native practitioners was almost always fatal.

It reappeared irregularly in Persia in 1844-45, and again, with greater virnlence, in 1816 ; while in the present year, forsaking the Eastern provinces of that country which it had scourged, it passed on, as in 1831, to the Russian provinces of Georgia and Circassia, and into the Turkish province of Armenia.

In Sonthern Asia, after confining its attacks for two years to the Southeastern provinces of Arabia Mesopotamia, it has now advanced and crossed the Red sca into Egypt on the one hand, and on the other, overspreading Asia-Minor up to the coast of the Levant ; now threatening Greece, and it is said has already appeared in Constantiriople. Meaniwhile, passing to the north of the Caucasian tange, it has arrived at Riga, and also penetrating Circassia from Teflis, it has crossed the mountains, and arrived at Verouish, the most" central town of Southern Russia.

Again passing througl Turkish Armenia, it reached Trebisonde, and thence crossing the Black Sea, arrived at Varna, the mouthe of the Danube and Odesisa: and already mate eqaeg nre renorted at Tiennas

Thus, instead of the limited course which it pursued in 1831-32, confined to Russia, Prussia, and Deumark, ill it tinally reached England, and only returning in $3813-44$, and 45 , upon Mustria, Saxony, Southern Gerna any, Franice, and Italy, and attacking them in the irregular manner in which it is wont to revert to places that it had left intact in its first progress, - it is now advancing upon the whele of Europe at once by five different rontes, and appeared in as many points in the extended line between Greece and Riga.
We have, therefore, reason to fear that its future progress may be marked by a virulence proportioned to its extended front and uisiform progress. Under such circumstances, I hold it to be an imperative duty in any one who has had an opportunty of studying the disease, to add what he can to the imperfect knowledge that we possess on the subject: and I venture to hope that these considerations will excuse me for throwing aside much of the diffidence that I should otherwise have felt in publishing my own views and until they should be further confirmed.

It was my gond fortune first to study the disease under my cousin, Mr. G. H. Bell, in Edinburgh, -author of what appears to me to be incomparably the best work on the subject that I have met with. I afterwards saw the disease in London, when it was the fashion to treat it on Dr. Stevens ${ }^{*}$ system of endeavouring to suppiy the exmbed serum of the blood by the administration of salt and soda. Afrer this, all the experience I had of it was a chance case in Bombay, till 1842, when a series of epidemics of peculiar character commenced in Persia, where I was attached to the embassy, and was in medical charge of the Persian army.
The first of these was dysentery; then a peculiar periodical disease, till then undescribed, attended with intense disturbance of the circulation and the nervous system :* which also appears to have been observed at Strasburg. Then came tropical remittent, then congestive arge $: \dagger$ and this finally terminated in true Cholera.

To this series of disease I am indebted for being led-as I sannot but think I have been-by a species of natural anayses, and by easy transitions, to a clearer insight into the nature of the disease; and to a practize, unbiassed by theory, and simply arising ont of the process of accommodating my remedies to the changing type of disease: which then proved successful in every case 1 attended, where the feet had not already become warm, while the legs and body remained cold.
This is a symptom which my whole experience teaches me to consider as a sign of actual death. In this most authors of experience bear me out, and 1 have invariably foum that every interference with the patient who presented this fatal symplom only increased the spasms and suffering, and hastened the consummation.
Almost every intelligent author on this subject has classed cholera with the cold fit of ague-as, indeed, the whole of its 'features render nearly inevitable; and viewing it in this light, the rationale and use of bleeding, as recommeuded by Mr . Bell and other authons; could not be better laid dow: than it is in his work on Cholera Asphyxia. Yet among these authors I have searched in vain for a single statement that cholera is-what I am satisfied it will invariably be found to be-a congestive ague of quotidian type. All whose works I have read consider it as, in its whole course, merely the cold fit of an ague, and that the fever which occasionally succeeds to it on recovery is the hot stage.
In my belief, no single paroxysm of ague of any kind ever occupied more tuan twenty-four hours in passing through all its stages, and, according to my experience,

[^8](whenever its progress is sufficiently-slow to run that course) invariably completes an entire paroxysm within that period, consisting of the congestive or cold stage, and the remission. The stage of reaction which follows congestion can, scarcely be said to exist in cholera, and the sweating stage, or stage of relaxation, is only occasionally perceptible, being so little marked as to be nearly undistinguishable from the short period of remission or intermission, but in every case of the epidemic which I had most opportunity of observing, there was invariably a diurnal remission and quotidian accession: and I am greatly inclined to believe this universal in all farms of cholera, where not prevented by previous death or cure.
This, sir, will doubtless appear to you a very bold assertion, and I am aware that it is one which, without the stethoscope at the bed-side of the patient, will be most difficult to verify, seeing that the chillhess of the surface is almost as great in this stage as in that which precedes it: at the same time it is very valuable, and will at once indicate a principle for the guidance of the practitioner, which will induce the atmost confidence in his plan of treatment.

The symptoms of these stages are so little marked as to require the most attentive observation to distinguish them, and until the opportunity shall present itself of actually looking for them, I do not expect to be credited, and all that I cail hope far at present, from those most conversant with the disease, and who have not as yet entertained this view, is, that they will at least give it their consideration, and try to recollect whether in the more protracted cases that have fallen under their treatment, they have not observed that the patient, after tossing about for many hours in an agony of suffocation, seems at last exhausted, and after long jactitation and continuing to throw off every covering he at last for a short period remains quiet and submits to the load of the bed-clothes. This temporary repose is in most cases almost the only symptom, except a more tranquil action of the heart, that marks the intermission, and forms the most obvious and almost the only guide to the essential part of the treatment of a severe case. In a very short time this period of comparative tranquillity ceases-the patient beoins again to yawn, to throw up his arms like one bleeding to death, and in a few minutes more to toss about again, and show every symptom of suffocating agony.
These symptoms of the return of the congestive stage have, in the mass of my cases; appeared exactly twenty-four hours after the first accession, insomuch that I invariably: made a point of seeing my patient some time before the hour of the commencement of the first attack, and selected it as the moment for the successful use of the lancet, where that fearful bit powerful remedy was necessary. But does it indeed require all the sudden and perfect restoration to health which attends its use, to compensate for the first anxious moments of suspense until the blood begins to trickle, or to reconcile the practitioner to such a measure? for when the first few drops ooze from the wound, they seem the harbinger of immediate dissolution; but when its flow is once established, and the patient is at once restored to health, no trimmph of art and just principle can exceed it. Latterly, howe ver,' I was not in the habit of waiting so long ; when the repose of the patient had been well marked for a short time, I bled, with much less difficulty in obtaining bloodwith much less struggle and danger to the patient, and with equal success-forestalling, instead of combatting, the anticipated period of fatal congestion.
In the remittent, and aterwards in the intermittent fevers which preceded the appearance of cholera in 1842, I found quinine alone, so far from relieving the symptoms, invariably aggravate all of them. I was led by circumstances to administer :t in combination with iron, with completo ghe. neas ; and when by almost ingenable transitions the epidey
mic merged into cholera, I continued the same practice. I had the pleasure to find that the first doses of a combination of sulphate of quinine, sulphate of iron, a few drops of sulphuric acid, and often a little sulphate of magnesia dissolved in water, inmediately checked the vomiting and diarrhea; and this I have found equally successful in the only case of true cholera. I have met with in England. It occurred in the autumn of last year. The woman, who bad previously suffered from the epidemic of 1833, was attacked on her way from Crewe to Manchester, and had been labouring under cholera for eight hours. I found her cold, blue, purging and vomiting the rice-water e vacuations, and cramped, with cold clean tongue, and feeble pulse. She had taken large doses of morphia, which were immediatly rejected; but the first dose of the above medicine checked the vomiting, and she was well in a few hours.

In all the mild cases in Persia this remedy was of itself sufficient to cure: it was repeated very frequently in genera!, but some of the most rapid cures I afterwards learned had been effected by swallowing at once the whole of what 1 had intended for nine doses. Its good effiects were generally immediately indicated by diminished anxiety, returning warmth, proceeding from the chest to the extremities, recommencing secretion of urine; but in cases of severer character it was found necessary to relieve the congestion by the abstraction of blood from a vein; and in doing this all depends upon the period at which bleeding is resorted to. If early in the congestive stage, or just previous to its second accession, it is invariably sticcessfut, if just as the congestive slage is passing off, when the pulse begins to require a little power, it is invariably fatal.

Before proceeding further, or considering the appropriateness or the contrary of the remedies most lauded in cholera, viz. opium, stimulants, antimonals, artificial heat, or cold effusion, - it will be necessary to consider what takes place in an attack of cholera, that, from its etiology, a theory of treatment may be deduced to point the indications and to defend the treatment, which I have ventured to advise; for though arrived at rather by practice than by theory, it is impossible that it can command attention unless borne out by reason.
lst: With many able authors, 1 hold cholera to be merely a form of ague; and, in addition, I maintain its type to be quotidian.
To determine the nature of ague, therefore, if this position be true, is to determine both the nature and treatment of cholera. To do this, it is necessary to have a clear conception of what is really essential in an ague.

In the first place, I may venture to premise that I have enjoyed very ample opportunity of seeing ague in every variety of type and degree of severity; yet I have never seen a single attack of any kind of ague in which the whole cycle of its stages-that is, in which each individual paroxysm- Was not completed within twenty four hours. I have often withessed several paroxysms completed within that time, but never one incomplete; and I have never met with a description of an arue in which the paroxysm exceeded twenty four hours duration, except where the author yould appear to have considered Asiatic cholera to be such an agie.
2dy. The congestive or cold slage is the only essential whichis never wanting in ague. It may be severe or slight, partial or general,-be with or without shivering; but in agie, and every disease allied to it, such as masked and

[^9]misplaced agues, as they are called, periodical headache, and neuralgia and all the remittent fevers 1 have yet met with, this stage is never wanting, though sometimes obscure. The second or hot stage may or may not occur; reaction may, and often does, take place quietly, and without fever, and unsucceeded by a period of relaxation or sweating. This condition frequently occurs in what is called the fortnight ague-a form with which all who served in the late campaigns in Scinde are well acquainted, where the shivering is severe and hysterical, but where the febrile and sweating stages are often antirely wanting; and yet this is the form most remarkable in its periodicity, and in its return, for one or more days, every fortnight, just previous to the lumar changes.
In other forms, more especially the quartan, all three stages generally prove exceedingly severe, and in this form the period of relaxation may perhaps pass the twenty-fourth hour from the accession, but I have not seen it do so, and I should be inclined to define ague as a paroxysm of congestion of the internal veins, subsiding within twenty-four hours, and often followed by febrile action and relaxation of the capillaries. It appears to consist in a gradual change in the astion of the extreme capillaries, and apparent constriction of them, by which the blood is rapidly driven in ward upon the great veins. When this has reached to such a point as to oppress the action of the lieart, yawning' first, and then shivering, or a sense of suffocation and pain in the precordia, are the indications of oppressed circulation, and of the commencing effort of the heart to overcoine the mass of blood which is stifling it. If by application of tourniquet's to the limbs, or by bleeding, part of the blood which is rushing from the extremities to increase this congestion is prevented from reaching the great veins,-the heart, excited to increased action, is enabled by this relief more quickly to overcome the obstruction and restore the balance of the circulation, and the paroxysm passes off. If not thus mechanically aided, the heart, after a severe struggle to maintain the circulation during the period of constriction, is at length relieved; by this nervous disturbance or spasm of the capillary circulation passing off of itself, and then the heart and arteries, so long excited by the struggle; maintain for a time their increased action"after the obstruction in the copillaries is removed, and produce apparent febrile action. Petesently this excitement subsides; the vessels become relaxed, and sweat succeeds. The vessels continue in this state for a longer or shorter period, according to circumstances,'till they at length recover their ordinary tone and action in the intermission. This fever, however, is not fever properly so called, bitteaction; and the sweating not: critical or essential," but relaxation. The cold stage is alone essential, and is the phy: siological cause of the subsequent stages.
If this be admitted, it is obvious that our whole attention must be devoted to the study of the phenomena of aguish congestion, in its commencement, its progress, its mechanical effects on the orgaisism, and the natural means by which it subsides or is overcome; and, lastly, in its tendency to periodical return, if we would obtain a clear perception of the nature of cholera. Before, however, we enter into these considerations, "and "the ratio medendi, it may be permitted to us' to diverge for a moment to consider the question of contagion, and inquire how far ague and cholera resembleq $\%$ differ from the whole class of contagious fevers, so as to jus? tify us in chiming in with the popular opinion of itsinfectious: nature, or in entertaining views to the contrary; for where popular feeling is strong on such a subject, abundant evidence is easily found to support their opinion of apparent facts.
Of the exciting cause of cholera we know little or nothing, and not a great deal of ague. The latter is known as a disease of marshy countries, but it is also the most prevalent disease in the driest countries in the world; for example,
the whole of central Asia, the deserts of Arabia, and of Africa, of some of the most elevated regions of Italy, \&c. \&c. A hundred years ago ague prevailed throughout Britain and Ireland, but it has now equally ceased in the most improved and well drained parts of Britain, and the most neglected of Ireland ; and no one can say that an improved mode of living among the peasantry of that country is the cause of its disappearance ; yet no one considered ague infectious. Marsh miasm, then, if a cause, is evidently not the only cause of ague; and among others, one of the most obvious, in eastern countries at least, is subterranean volcanic action; whether by means of exhalations, or the electrical effects of subterranean chemical action, it would be dificult to say, but I have seen it and remittent too often precede or arise with earthquake, to have any doubt on this subject. Whatever its cause, however, most people are inclined to attribute it to a terrestrial origin; but, however we view it, it must be conceded that it was once endemic in England, and is not so now ; yet ague will march across countries as steadily and extensively as cholera.

The remittent fever of 1842 , in Scinde, ending in ague, proceeded in a direct line through Beloochestan, right across Persia, Georgia, Circassia, and southem Russia, and gradually losing more and more of its intermitting character, appeared in Edinburgh as a modified remittent, with a tendency to periodical relapse, and is described in your journal under the title of the Scotch Epidemic. This remittent tendency continued in 1844 and 1845 to influence the type of fever in Scotland, Manchester, and Liverpool in these years.

In 1843, in the Asiatic part of its course, this remittent and intermittent assumed the shape of cholera. In 1846-7, cholera there became a scourge, while in this country we only slightly perceived the influence in the increased temdency to intermitting neuralgia, and the secretion of oxalates in the urine, \&c. If, then, cholera is propagated by contagion, is it possible that its approach alone, and before its advent, should so markedly be perceptible in the character of the prevalent diseases, or could it continue to influence them after its disappearance, when contessedly no contagion prevails? Yet it has been remarked by some of our most experienced authors that, ever since the first approach of cholera, the fevers in this country have materially changed in their typie, and the use of the lancet in fever, formerly so beneficial, hias now become obsolete. These considerations tead to show that (ague and cholera being so nearly allied) there is no reason why cholera should not for a cycle become as endemic in this country as ague formerly was, and as it has, in fact, become in India since its appearance there in 1767.

But lef us examine the action of the poison, whatever it may be that produces ague or cholrra; in its effects on the system, as compared with those of contagions fevers, including the exanthemata, and other fevers produced by animal poisons, and whether there is any evidence of its elimination from the system by similar febrile action.

I presume I shall not be going too far in considering continued fevers as the reparative process by which nature eliminates the poison by appropriate organs - the skin, the bowcls, 8u.; and it will not invalidate this position, that death occasionally occurs through the violence with which this action falls on a particular organ; for if the organs fail to eliminate the poison, and thus protect the nervous centres, death takes place through the nervous system.

If is not so in ague and cholera; in the latter the brain is the last to die. There is no evidence of any poison being eliminated by the action, or any special secreting organ being affected. An ague fit will sometimes pass off without fever or sweating, a cholera attack sometimes without even purging, and leave no evidence of a poison lurking in the system. Whatever the canse of the disturbance of the circulation that produces the congestive stage in these diseases,
the fact of an immediate cessation, or a complete intermission of its effects, is almost conclusive that it cannot be, as in. other fevers, a poison circulating in the blood, exciting a reparative action, but the effect of a cause acting on the powers which circulate the blood, independently of a change in the b!ood itself, and most dissimilar to anything that we perceive in the ordinary course of contagious tevers.

We can scarcely doubt that the congestion of ague takes place through an influence of the sympathetic nerve on the minute capillaries; but till we are better acquainted with the powers which circulate the blood, with the changes which that fluid undergoes in passing through them, and with the effects of clectricity upon them, we cannot expect to arrive at a knowledge of the exciting cause of these diseases; but we do not, in the nature of the disease, find a single argument for believing that either ague or cholera eliminate from the system any morbid poison to render them communicable from man to man: although in both we find. some reason to believe that that powerful agent, electricity, of which we are as yet so ignorant, has much to do with them, and perceire soine evidence of a connection with the terrestrial currents as affecting their periodicity, and with the electrical phenomena that accompany the lunar changes, \&c., \&c., as affecting their relapse.

The direct evidence in favour of non-contagion has always appeared to me infinitely to preponderate over that to the contrary; and I know none more conclusive than the fact of its penetrating the triple cordon sanitaire established by the Prussian Gorernment on the Oder in 1831 at exactly the samie rate, fonr German miles a day, that it proceeded at. both before and after its encountering what was expected to prove so formidable a barrier to its progress.

While on this point, however, it would be wrong to pass over a remarkable point which many cases published in the periodical medical journals confirm-that where fever is sporadically induced by accumulated filth, especially decaying vegetable matter, such as stable manure, the type of fever that results is the most exaggerated specimen of the type of the fever that prevails at the time; and thus it happens that people from the same neighbourhood are so rapidly affected by a prevailing non-contagious malady as to present evety. appearance of having received it by contagion.-London Medical Gazetle.

Nature of the Facal Evacuations in Cholera.-By M. Anpral.-Among the alterations found in the solids and fluids of the body in patients affected with cholera, there is one which belongs especially to this disease, and which is characteristic of it, namely, the existence within the intestinal canal of a peculiar white flaid, very similar to water in which rice has been boiled. This material, which is sometimes found in large quantities in the intestines of persons who have died of cholera, and which constitutes the

* Sir Charles Bell, in his Essay on the forces which circulate the blond, has shown that some peculiar condition of the inner coats of the ressels, and some vital property, most be in operation during life to prevent coagulation of the blood; and to obviate thit capillary attraction, which prevents even water penetrating the capillarics of the dead body, though urged with the utmost force that the vessels will bear without rupture. Professor Sir John Leslie, in his lectures on Natural Philosophy, nsed to exhibit' a remarkable expeniment which bears on this subject. Filling a thin wooden cup with mercury, no particle of it penetrated the pores of the wood, till, by passing a current of electricity through the cup, he overcanie the capillary attraction, and the mercury fell through it in a showor, I have successfully availed myself of this principle in making mercurial injections of the rete testis, suspending from the prime conductor of an electrical machine. It docs not seem too much to believe that the sympathetic nervo may exert some such power on the blood-vessels.
alvine evacuations during life, consists of a muddy liquid, capable of being rendered transparent by filtration, and within which are strspended, in greater or less abundance, lumps of opaque white matter, perfectly untinged by bile. Concerning the nature of this particular fluid, it has been considered to consist of the serum and fibrine of blood escaped from its vessel and poured into the intestinal canal. The fluid portion of this material has been conceded as the serum of the blood ; the solid tumous portion, as the fibrine. According to this view, an explanation is afforded of the peculiar characters presented by the blood in cholera; and it is considered by many, that the blood, thus deprived of much of its scrum and of its globules; can no longer traverse with readiness the different capillary networks of the hody, and that thus many of the peculiar symptoms presented by this disease may be explained. The facts, however, on which such an opinion was founded, not having been sufficiently proved, M. Andral was induced, by the occurrence of several cases of cholera in the hospitals of Paris in 1846, to submit to careful examination the matters passed fiom the intestines. After having filtered this intestinal matter, and thus separated it into two portions, the one liquid perfectly transparent and colourless, the other solid, consisting of a number of particles agglomerated together, he treated the liquid portion with alcohol, nitric acid, and heat; but by none of these reagents was a precipitate formed; consequently there was no albumen. The results of an examination of this liquid portion by. M. Favre also showed that the organic substance contained in it possessed none of the characters of albumen. This proves, therefore, that the serum of the blood does not enter into the composition of the materials ejected from the intestines in cholera. Like the serum, indeed, this fluid was highly alkaline; but this is a character common also to many other fiuids of the economy. The contents of the intestines alse are usually alkaline, and the alkalinity is not more marked in cholera than in many other diseases.

Moreover, if the intestinal secretion in cholera is essentially composed of albumen, the quantity of this material in the blood ought to be found considerably diminished, as it is in certain affections of the kidney attended with the transmission of albumen through these organs. The diminution, indeed, in cholera ought to be much greater than in such renal affections, because the quantity of secretion poured from the intestines is very large. Bnt. M. Andral having examined the blood in all stages of cholera, finds that the proportion of albumen is almost unaltered, neither manifest increase nor diminution being found. He has obtained equally decisive proof also of the non-existence of fibrine in the intestinal secretions in this disease. No trace of a filamentous texture could be detected by the microscope in the solid masses evacuated." These solid masses he finds to be composed of numerous nucleated and nucleolated cells, closely resembling pus-globules. Besides these globules, which were very abundant, the masses contained also numerous particles of epithelium. It would appear, therefore, from the results of his examination, that the white matter discharged from the intestines in cholera consists essentially of a mucous secretion in enormous quantity, and so far altered in quality as to contain an abundance of corpuscles in all respects similar to pus-globules, and to which the white appearance of the secretion is due--Comptes Renidus; 9 Aout 1817, in London Medical Gazette.

Treatment of Obstinate. Hiccough by Prolonged Compression of the Epigastrium.- Dr.Boyer relates three cases of prolonged and alarming hiccough, which, having resisted all the usual means employed for its relief, were relieved by the application of pressure, a practice first suggested by Bordeu, and since revived by M. Rostan. A large pad is
laic on the epigastrium, and bound forcibly on by means of a towel or bandage. It generally causes instant relief, but if discontinued too soon the biccough returns. It is usually. necessary to wear it for twenty-four hours, before it can be, safely removed.-Revue Medico-Chirurgicale.

## SURGERY.

Erysipelas.-From Lectures on Surgery in the London Medi; cal Gazefte. By Bruysby B. Cooper, F.R.S., \&c.-You may consider this subiect, gentlemen, as belonging rather to the province of the physician than to the surgeon; but erysipelas so fre-* quently follows local injury, that, unless a surgeon is acquainted with the phenomena corinected with this disease, and the appropriate treatment for their relicf, he would constantly be obliged to trausfer the cure of his patients to the hands of the physician. In fact, no better instance tham erysipelas can be adduced to prove the necessity for a surgeon to render himself thoroughly acquainted with loco-constitutional disease.

Erysipelas is an inflammation of a very peculiar character, attacking the external surface of the body, and indicating all the usual signs of a morbidy increased action, attended with redness, heat, swelling, and pain, each of those offering characteristic marks. Sometimes it scems to attack the skin only, unattended with any concomitant constitutional disturbance $:$ it is then termed erythema.
The redness of erysipclas is remarkable, on account of its sudden disappcarance upon the slightest pressure, leaving a white spot ; but the redness almost instantaneously returns upon the removal of the force. The intensity of the colour varies very much in different casses, and this varicty depends nore upon the constitution of the patient than upon the severity; or any peculiarity in the disease itsclf.
The heal of the affected part is of a burning character, and is deseribed by the patient as producing a dill pricking, or rather tingling, sensation. The degree of sweling depends upon the circumstance of the subcutaneous tiesues being affected or otherwise ; for, when tho skin alone is inflamed, thers is little or no swelling or tension, and, in fact, the inflammation is at this period to be considered as merely erythematous; but, immediately upon the implication of the cellular membrane, swelling becomes a' prominent feature of this disease.
Tiee pain is seldum acute, but is said to resemble'a tingling stiffuess, and it produces invariably a restlessness which is highly characteristic of the disease. If pressure be applied to the in. flamed part, the pain and uncasiness are very considerably in: creased. The local symptoms are generally preceded by coin siderable constitutional disturbanco-such as pain in the head, full pule, loss of appetite, rigors followed by dejection; debility. sometimes vomiling, and carly delirium, if the head be the seat of the disease. Although these symptoms likewise frequently'at:tend common pyrexia, there is something so peculiar in their na. ture-so sudden in their development-that every experienced nurse in an hospitul recognises them as premonitory signs of erysipelas.
Medical writers have distunguished erysipelas by the termes phlegmonous, bilious, and local or erythematous. Were Ito take this detailed viewr of the discase, 1 admit, gentlemen; that" $I$ should be rather cnuronehing upon the province of the physiciant? I shall therefore dweil ceppecially on the phenomena resulting from local injury - " rraumatic crysipelas."
The question naturally arises, whether injury to any tissue can, in itself produce the specific action of erysipelas without accessoriy $y_{\text {sex }}$ constitutional predisposition. I am mysclf inclined to reply in the negative, 'for I believe that this disease is the result of a con': stitutional derangement, arising chiefly either from epidemic or endemic causes; for how frequently is it observed in this and every other hospital, that; when one pationt has become affected. with erysipelas, others are found liable to its attiacks from causes much too slight to be considered capable of producing the like re. sult under ordinary circumstances. "This is so well known, that every hospital surgeon postpones the performance of surgicaliope. rations even after the patient has been prepared for the ordeal, if he is aware that erysipelas is present in the ward.
It is quite true that a healthy person would probably resist the
infection; but, under the depressing influence inseparable from an operation, it would be incorring an unwarrantable risk to ex. pose a patient to the continued influence of such a poison, particularly if the case is one which will, under any circumstances, admit of delay.
There is certainly a peculiarity in traumatic erysipelas, with reepect to its so frequently following wounds of the head and face ; and I consider that this may depend upon the inscrtion of all the muscles of this region into the skin, the tissue invariably frest affected by this peculiar description of inflammation.
Hence, in the case of persons suffiring from an attack of erysipelas in the face, the most complete state of quietude, and ab. sence of all mental excitement, are desirable, as affordng the only means of preserving these muscles in a perfect state of rest, as they are immediately put into motion by the operation of almost every external circumstance, or by the least mental disturhance.
Another peculiarity in erysipelas, not yet alluded to, is its erratic tendency, or what is teelnically termed "metnstasis," which constitutes one of the most remarkable featurcs of this complaint.
The consideration of this fact furns a very imporiment point in regulating our practice, and especially in erysipelas of the head; for, however proper it may be to attempt suddenly to suldne erysipelatous inflammation of the limbs or trank, by the application of evaporating lotions, or any other means of alstracting the abnormal heat of the affected part, such treatment is quite inadmissible in ergsipelas of the head or face, owing to the danger of producing metastasis to the membranes of the brain.

I have more than once seen a patient delirious a few hours after cold had been applied to an erysipelatous scalp, and restored as quickly to consciousncss by the substitution of warm fomentations for the evaporating lotion. The mationale of this is suffciently obvious: the action is due to the free anastomosis between the vessels of the pericranium and of the durd mater, through the substance of the bones of the skull ; so that any cause that propels the blood from the pericranium must produce a proportion. ablc influx into the vessels of the dura mater.

Patients attacked by erysipelas (mirore especially in this metropolis) bear depletion very badly, and there are but few cases in which general blood-letting can, in my opinion, be adinissible.
Leeches should never be employed in erysipelas, as their bite becomes a fresh source of irritation; and, indecd, it is frequently the exciting cause of this peculiar character of inflammation.
The only antiphlogistic plan, therefore, left, is that of acting upon the seeretions, which effect is readily produced by employing the following remedies :-Rf Hyd. Chloridi, gr. iss ; Pulv. Jacobi veri. gr. iij. M. ft. Pilul.; Magnes. Carbonat. gr. x. Is Sode Sesquicarbonat. .. $\mathrm{O}_{\mathrm{j}}$; Vin. Ipecac. 5 ss ; Mist. Camphore, ${ }^{\text {z. }} \mathrm{j}$. M. Tt. Haustus adde Succi Limonis Recentis, $\tilde{\tilde{Z}}$ ss. et in statu effervescentia sumendus bis terve quotidie. Should the patient evince any typhiod symptoms, ammonia should be substituted for the soda.

If there be much tension of the skin, attended wath small blis. ters, without remission of fobrile symptons, it should be punctured in several places, to sllow of transudation of the effused serum. This operation generally affords great relief. With respect to the long incisions recommended bs some surgeins, I cunsider that praclice to be worse than useless, onless there be extensive sloughing of the cellular membrane, which will very rarely occur if froncfures be made as soon as the necessity for such relief is indicated by the tension of the skin; indeed, T have known fatal sloughing sores induced by the practice of incisions, and in more than one case death occurred from the hæmorrhage immediately resulting from the operation.
When erysipelas becomes diffused, the vivid discoloration of the skin diminisished, the tongue dry, and the general signs of debility manifested, stimuli are required ; but in common cases generois support is preferable to stimulus: I thetefire ustally prefer porter to wine or brandy, excepting under the circumstances above mentioned.
Where the inflammation of erysipelas has a great tendency to spread, it has been recommended to attempt to check its couree by cauterising -with lurar caustic the skin above the inflammation. Soine have recommended mercurial ontment to be employed with the same view; and indeed I have seen buth of them produce beneficial results by circumscribing the extent of the inflammation. I presume that the lunar caustic and the mercurial vintment closs the pores of the skin wherever it is applied, and, preventing the natural cutaneous exhalations, set up a new ac-
tion, and so tend to prevent the spreading of the erythematous inftimmation; for, as iar as I have observed, any other ointment will answer the purpose as well as the mercurial.
This fact would certainly lead one to the belief that erysipplas is, at any ratc at its cominencement, a cutaneous disease, and the extension to the subcutanecus tissues the result of a secondary action.
Vesicles generally form in those cases which do not terminate by resolution ; hence crysipclas has been classed under the order Bulle, by Dr. Bateman.

In debilitated constitutions, diffused abscesses frequently follow erysipelatuos attacko, someitines even at a distance from the originally inflame? patt. Inderd, I have occasionally seen ab. scesses follow wounds around which no erysipelatous inflammation had occurred, and yet subsequently diffised cellular nembranous abseceses have formed in different parts of the boay, attended with considerable heal inflammation; but whether these could the regarded as erysipelatons aftictions, I have fiequently had nivech duficuity in deterninug. What I monn to express is, gentiemen, that it is often very difficult to distinguish the inflammation resulf: ing from the formation of absccess in debilitated patients from phlegrmonous crysipelas. In thesc cases, also, as in erysipelas, the abscesses are sarely limted by an adhosive boundary, but are difflused, indicating the extreme debility of the patant.

When abseesses result from erysipelas, they rarely extend beyoud the subcutancous cellolar membranc, and do not appear to lcad to absorbent inflammation, probably in consequence of the freedom with which the mutter liecomes diffused; while, on the contrary, when pus is formed in more decply seated structures, as in subifascial and thecal abscess, it is pent up by the incxtensible tissues, and leads, therefore, to mure urgent constitutional dis turbance, and requires tarly provision for its evacuation.

Great care and attention are required after a'patient máy have apparently recovered from an attack of erysipelas, owing to the great tendency to relapse which generally exists in such cases : and it may, perthaps, be said-at least so my cxpericnce leads me to believe-that a person once attacked by this disense is ever after liable to its return from any exciling cuase to inflammation -a circumstance which would scem to prove that the discase de. pends more upon peculiarity of constitution than upon the nature of the acridental injury, or cven, peribaps, than upon any epidemic influence.
I have said, gentlemen, that it might be considered a deviation fron my province to speak of bilious erysipelas, and other partieu: lar constitutional derangements modifying this disease; still do not for one moment imagine that I consider it unnecessary for you to study, and serutinously too, the pecularitics, diathesis, and tcmperament of your patient ; for yon must remember that the slightest local injury can never occur without the restorative pro. coss being influenced by the age, sex, habit, and constitution of the subject ; and wheever fancies that, because he has made himself aequainted with the name of the disease, he can at once apply some well-known appropriate remedy, will never advance beyond conpiricism, nor cetablish his tite to be considered in the light of a scientific practitioner; and I would almost say that his practice, wuold be dangerous in proportion to his rapid decision in the classification of disease, if that alone be his aim. After what has been said, as to the tendency to erysipelas following the wounds of the scalp, and skin of the face, let me urge you, gentlemen, to be cautious how you undertakc cven trivial operations, on these regions of the body, without first having duly prepared your patient for the effects they invariably prodnce in the system. In some cases you may be requested to remove small encysted tumors from the exalp-an operation so trivial that it may be exe. cuted by a mere tyro in the profession-but even the most expe-' rienced and skilful surgeom may risk the life of a patient, and his own reputation, by want of a little precaution.
Never, I say, undertake such a task without first well ascertaning the actual state of your patient's health, as to the absence of any organic discase, the condition of the bowels, state of the urine, and natural performance of the functions essential to a healthy state of body.
Sceral years ago I removed an encysted tumor from the head of a patient. Upon making a mere incision through the skin- it immediately turned out, the operation of extracting it not occupying more than a minute. On the third day I considered my patient convalescent; on the fourth I was suddenly sent for to see him, and found that a most startling change had yaken place in
his condition. I should not have recognised him ; his head was swollen to twice its natural size; not a feature could be ciscerned; and his complaints were urged in muttering delirium. I immediately ordered him (as his bowels were costive) a large dose. of calumel, fomented, his head and face, punctured the scalp, and prescribed diaphoretic effervescing draughts. The day following he had but slightly improved, although his bowels had been freely. opened, and I immediately proposed a consultation. The gentle. man who met me recommended bleeding-a remedy to which he especially trusted in all cases of fcbrile action. But as the patient had a very dry tongue, attended with delirium, and was complaining of great thirst, muttering in almost inarticulate souinds his desire for porter, I proposed that we should try its effect : this was consented to, and I held a pint of porter to his lips; he drank it off at a draught-soon fell into a sound sleep; when he awole he was perfectly free from delirium, and fron that moment his recovery rapidly progressed.

In relating this case, gentlemen, I do not mean to inculcate the propriety of, the invariable use of stimulus, but I do believe that in most cases it will be found a safer remedy than bleeding, more particularly in London, or any crowded city; nor have i formed this judgment from the solitary case just mentioned, but it is an opinion founded upon my own expericnce and the practice of my colleagues in this hospital as well as in private.

A lady applied to an eminent surgeon, to ascertain from him whether a smali encysted tumor could be removed with perfect safety from her head; to which he replied, "certainly:" The operation was immediately performed, but seven days afterwards she was dead frow an attack of erysipelas.
The next case, as the patient was not attacked by erysipclas after the operation, may be, considered out of place with regard to our present considcrations; I have mentioned it, however, merely to exemplify the neqessity of ascertaining the real constitutional condition before you venture to submit a patient to any mechani. cal lesion.

A short time ago, an individual came under my care with an external pile and a fissure in the mucous membrane of the rectum; he was considerably out of health, and attributed all his ailments to the sufferings he experienced in the passing of his motions, owing to the local disease; he urged me to relieve him by operation. I kept him, however, a week or ten days under my care before I operated, and by soothing remedics had somewhat improved bis condition, when I removed the external pile, and drew the bistoury across the fissure, the whole time of the speration not exceeding half a minute. The paticnt felt immediate relief after the operation ; he had little or no pain in passing his motions, but in the course of four or five days he was seized with symptoms of subacute peritonitis; calomel, and opiun, and leeches were ordered, but four days afterwards he died.
Upon examination of the body, he was found to be the subjeet of granular kidneys, (the morbus Brightii) which no doubt had caused his death.
It had been ascertained, during life, by my dresser, that his urine, was albuminous; but I considered the severity of his suffering demanded the performance of this slight operation; although the sequel renders it a matter for consideration whether 1 was right, under these circumstances, in subjecting him to a fresh source of irritation.

From such cases as these you must be impressed, gentlemen, with the necessity of doing everything which the science of surgery cañ insure, so far as lies in your power, to place your patient in the greatest' state of security before you subject him to any surgical operation, and even then never promise that any operation, however simple, will be perfectly free from danger; for depend upon it, it is as unwise to treat slightly the most trifling incisions of the skin, as it is dishonest to attach to an operation more importance than it justly deserves.
Some surgeons suppose that it is better to perform what are usually considered simple operations at the moment, than to allow the dread of anticipation to remain in the mind of the patient, and then proceed to act upon this opinion without any preliminaty precaution. ${ }^{\text {. }}$ There are, however, I believe, but few patients, who will not duly appreciate the cautious recominendation of a surgeon to submit to some little preparatory discipline, and he will gain much more confidence from the patient by this display of his judgment, than from the hasty recklessness which evinces boldness and self reliance, rather than judicious precaution.

THE


## MONTREAL, JANUARY $1,1848$.

## COUNTER-PETITION TO THE GOVERNOR GENERAL.

We purpose, at present, to examine into the memorial lately presented to the Governor General, which we published in our last number, and to analyze its s̀tatements. We know not who all the signers of the memorial are ; their names have been studiously concealed. We have heard, however, that a goodly number are not members of the Corporation, and the good seuse and taste which they have displayed may be, therefore, accurately appreciated. The proceeding, taken as a whole, is remarkably puerile, and is a beautiful exemplification of what is termed in common parlance, "reckoning without the host.". It was a shot fired at-nothing; and would have been a harmless shedding of ink and waste of paper, did not the memo: rial contain several misrepresentations, which it is proper should be at least corrected. Had any occasion really existed for such a "counterblaste" against the proceedings of the Board of Governors, we ourselves would have appeared among the protestors; but there should be no protest uniess there be something- to protest against; something more than supposed intention, something done, some act or deed committed, either of an illegal nature or having a bad tendency, before such a proceeding can be brought to bear, or such an act have force. The fitful phantom of a disordered mind possessed a substantiality as real as that against which the memorial was directed.

1st. It is asserted that the present intention of the Governors to submit the rules of the College to the members of the Corporation at Quebec, in May next, was the result of an " order from the Executive", to that effect, consequent upon the presentation of the memo. rial. This is entirely incorrect. It was in conse. quence of a legal opinion obtained from the crown officers, and applied for in the early part of the week preceding that in which the memolial was presented: 2d. No rules and regulations being in force, none could be' suspended.

3d. The proclamation of the Governor General (paragraph 3 of memorial) did not "summon all the physicians of Lower Canada to mect together on the 15th Sep. last to name governors," \&c. It summoned the first meeting of the Corporation, appointing, at the same time, the day, and nominating the first President:

4 th. The sixth paragraph assigns that the "large proportion of medical men who thus find themselves not members of the College, have been prevented from artaching their signatures to the petition to the Legislature to organize the profession into a college, by want of due publicity given to the proceedings, or from delay in apprizing them of the steps taken io attain the object." We happen to know that the utmost pains were taken to give every publicity to the proccedings. Special invitations to sign were addressed to every member of the profession, whose name and residence were known to the Secretary of the Three Rivers mecting of 1846 , of which this Bill is' the fruit. It was known most extensively among the profession, that at that meeting a committee was formed to superintend the different steps of a Bill, based upon the resolutions adopted at that meeting, to be submitted to the Legislature at its ensuing session. The Legislature met; the Bill passed. modified, however, in some particulars; and it is folly to talk of want of publicity or delay, under the actual circumstances of the casc.
.5th. Upon paragraph 7 and 8 we have already ex. pressed our opinion.

6th. As regards the fees to the College and their appropriation, nothing is determined.

7th. Paragraph 14. The Corporation can only make rules for its own governance. No physician, not a member of the College or the Corporation, can or will be in the slightest degree influenced by them.

8 th. And the 15 th paragraph is but the expression of the opinion of the memorialists, and may be considered " void and of none effect," or otherwise, in accordance with the value entertained of their legal know. ledge and its profiundity.
Currency is given to the idea, and the opinion is frequently expressed throughout the memorial, "that the rules and regulations must be submitted to the revision and approval of all the members of the medical prafession" before final sanction. We are not a little surprised that the memorialists, who have attempted to prove themselves such apt lawyers, should so far will. ingly misinterpret portions of the Act, as to induce others to believe in the inference which they have drawn. We charitably believe that the blunder lies rather in the heart than in the head, and springs from a feeling of liberality. Now, we are equally as liberal in our views as they arc. We have the interests of the profession equally as much at heart ; and no one regrets more than ourselves, the temporary disfranchiseiment, under which a large portion of the profes. sinnis now suftibing, The Act, hovever, doclares Wifferpecsly on this point "! The sid Colloge of

Physicians and Surgeons shall have power to make all such rules and regulations for the government and proper working of the said Corporation, and the election of a President, and officers thereof, as to the members thereof may seem meet and expedient." Aid again, "the said election cititer as member of the said College, or as Governor thereof as aforesaid, sball be made under the rules and regulations therefor, and in such manner as the said Corporation shall make," \&ce. Now, it is clear, that the rules and regulations must be submitted only to the members of the Corporation; and as these rules are binding only upon the Corporation. exerting no force out of it, medical men not members of that Corporation have nothing whatever to do with them.

We observe by the Official Gazette, that application will be made at the ensuing session of the Legislature for a repeal of the Act. The advertisement is signed by the following Physicians and Surgeons:-Drs. Charlebois, D'Eschambault, Picault, Coderre, Boyer, Wilbrenner, Willscam, Regnault, Dorsonnens, Trudel; Peltier, Leprohon, Sabourin. This is going a little too far. We do not admire particularly the present Bill, but with all its faults, it was an instalment, long due to the Profession; and the Profession would be false to its truest interests, were they to calmly yield it up. Amendments are certainly required in it, and to obtain these we will bend out untiring energy.

## lidentiates of the medical board of UPPER CANADA.

| John Gilchrist | 6, | 1819 |
| :---: | :---: | :---: |
| Nathaniel Bell | March 17, | 1819 |
| Augustus Miller | July 6, | 1819 |
| Edward W. Armstrong | .July 6, | 1819 |
| Pitkin Gross. | .July 6, | 1819 |
| Anthony Morton | . ct . 20, | 1819 |
| George Baker | .Jan. 7, | 1820 |
| R. L. Cockroft | April 5, | 1820 |
| John Vauderpool | Jan. 2, | 1821 |
| Oliver G. Tiffany | Jan. 9, | 1822 |
| Chancy Beedle. | Jan. 9, | 1822 |
| Alexander Burnside | April 6, | 1822 |
| J. Adamson. | .July 23, | 1822 |
| Andrew Aust | Jan. 7, | 1823 |
| Horace Yeomans | Jan. 7, | 1823 |
| Freeman Riddle. | April 11, | 1823 |
| Matthew C. Gilchri | .Jan. 6, | 1834 |
| Samuel Gilchrist. | Jan. 6, | 1824 |
| Samuel Woodruff | Jan. 6, | 1824 |
| Stephen W. Stavery | July 21, | 1824 |
| Thomas D., Morrison | July 21, | 1824 |
| Jabez Kellog. | April 5, | 1825 |
| Frederick L. Conver | July 27, | 18.25 |
| James Macaulay | Oct. 6, | 1825 |
| James Hunter. . | April 5, | 1826 |
| David J. Bowman | May 19, | 1826 |
| William Bruce | Nov. 19, | 1826 |
| Jamer Firfeld: | Amrit B | $18 \%$ |



| William Ross | .Feb. 11, | 1834 | Joseph Clarke. | ct. | 23, | 1835 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lemuel Bartlet | 11, | 1834 | William Taylor | Ot. | .23, | 835 |
| David Lithgo | March 5, | 1834 | John K. Fairfield | Oct. | 23, | 1835 |
| Donald M 6 Donal | March 8, | 1834 | George Southwick | ct | 23, | 1835 |
| Wiliam Henry Parsle | March 10, | 1834 | Alexander Anderso | Nov. | 19, | 35 |
| George Hamilton Park | April 9, | 1834 | Williart Gordon G | Nov. | 25, | 335 |
| Charles Rolls: | April 10, | 1834 | Arthur Paterson. |  | 6, | 1836 |
| John Harrison Blackw | April 14, | 1834 | William P. Crev |  | 25, | 1836 |
| Jonathan Wolverton: | April 14, | 1834 | Henry Rolls | April | ${ }^{6}$, | 1836 |
| lames Duncan Gillie | April 22, | 1834 | - Cgrenius Hall | April | 7, | 1836 |
| James Campbelll. | May 16, | 1834 | James Edward Burton | May | 17, | 1836 |
| Samuel Norway. | May 16, | 1834 | W. B. Nichol. | April |  | 6 |
| Dunican Campbel | May 17, | 1834 | Robert Todd Reynolds | July | 4, | 1836 |
| Thomas Steel. | May 20, | 1834 | Charles M.Cosker | July | 5 , | 1836 |
| Uniacke Ronayn | .June 4, | 1834 | William Tarrant. | July | 6, | 1836 |
| George Colls. | .June 4, | 1834 | Daniel M•Intyre. | July | 6, | 1836 |
| Charles Elliott Ha | .Juna 6, | 1834 | Edsward Morton. | July | 7, | 1836 |
| John Dowding | June ${ }^{9}$, | 1834 | James Meagher | July | 8, | 1836 |
| James Tolkien. | June 13, | 1834 | Francis Benedi | July | 14, | 1836 |
| John Percy Moore | .June 16, | 1834 | Rowley Pegley. | July | 18, | 1836 |
| Patrick S. Wharrie | .June 20, | 1834 | Colin A. Anders | Aug. | 9, | 1836 |
| William Gerald Dic | .June 20, | 1834 | William Sutherla | Sep. | 9, |  |
| Francis Cameron. | July 7 , | 1834 | Charles Wm. Cov | Sep. | 28, | 1836 |
| John Barnhart. | July 8, | 1834 | James Mitchell. |  | 4, | 1836 |
| John Ferguson. | .July 8 , | 1834 | Mathew Campbe |  | 5, | 1836 |
| William L. Badge | July 10, | 18.34 | Henry Osborne. |  | 5, | 1836 |
| James William Pow | July 10, | 1834 | Thomas Homan M | Nor. | 18, | 836 |
| Hardinge Gifford King | July 10, | 1834 | James T. Thorbui | ec. | 20, | 1836 |
| Daniel Coat | July 11, | 1834 | William Allison | Dec. | 28, |  |
| John Scotit: | . Tuly 12, | 1834 | James Campbell | Jan. | 7 , | 1837 |
| John B. Walsh. | July 12, | 1834 | Henry Orton. |  | 22, | 1837 |
| James M‘Ilmurray | July 12, | 1834 | Thomas Chamber | Aprii | 4, | 1837 |
| Patrick M'Garry. | July 12, | 1834 | Joseph Workman | May | 30, | 1837 |
| John M‘Kelcan. | . July 12, | 1834 | Thomas Butler.. | June. | 15, | 1837 |
| Edmund Mills. | .July 22, | 1834 | Robert M/Lean | July | 5 , | 1837 |
| Alexander Kenneth | .July 23, | 1834 | John Turguand. | July | 7 | 1837 |
| Ediward C. Thom | Ang. 1, | 1834 | Thomas Seagrim | Aug. | 10, | 1837 |
| Charles Edward Shew | Aug. 9, | 1834 | Mathew M. Corr |  | 14, | 1837 |
| James Haskins: | Aug. 25, | 1834 | - Hervey Rnss. | April |  |  |
| Adolphus Willia | Aug. 30, | 1834 | George Burnham | April | 5, | 1838 |
| Heny Whicker | Sep. 2, | 1834 | Wm. Hope. | April | 6, |  |
| Joseph Kerr. | Oct. 8, | 1834 | George Gwy ${ }^{\text {nne }}$ | April | 6, | 1838 |
| Samuel S. Knight | Oct. 13, | 1834 | Wm. M. Smith. | July | 3, | 1838 |
| Francis Stewart P | Oct. 10, | 1834 | Frederick Morso | Aug. | 2, | 1838 |
| William Ferris. | Oct. 10, | 183.1 | Alfred Morson. | Oct. | 1, | 1838 |
| - Edward Mulberry | Oct. 29, | 1834 | Francis Clarke M | Oct. | 20, |  |
| - George Goldston | Oct. 31, | 1834 | Abralam Francis. | Oct. | 24, | 1838 |
| Edward Klinckh | .Jan. 6, | 1835 | Wm. Woodcoc | Nov. | 10, | 1838 |
| Gerald $0^{\prime}$ Rielly. | .Jan. 6, | 1835 | Wm. Tullidge. | Nov. | 15, | 1838 |
| Robert M‘Cosh | .Jan. 9, | 1835 | Edward Morton |  | 15, | 1839 |
| Edward Van Cortl | .Jan. 14, | 1835 | George Robert Gr | March |  | 1839 |
| John Jarron. | Jan. 7 , | 1835 | George Parsons. | April | 6 , | 1839 |
| Joan Hyde | April ${ }^{1}$, |  | John W. Hunte | April | 3 3, | 1839 |
| Willian Crai | April 7, | 1835 | James Lister. | June | 17, | 1841 |
| David Galbrait | April 8, | 1835 | Edward Quincy Sew | June | 19, | 1841 |
| Samuel Richardso | April 9, | 1835 | Terence Sparham. | .June | 23, | 1841 |
| Thomas Aldred Willia | April 27 , | 1835 | Edward Dancey. | .July | 7, | 1841 |
| EJohin Berggreen Matthe | May 29, | 1835 | Jaines Stewart | July | 7, | 1841 |
| William H. Macartney | June 15, |  | Joseph Orlando Or | July | 10, | 1841 |
| Woolmer Richard Cubit | June 24, | 1835 | John Reid. | July | 14, | 1841 |
| Walter H. Burritt | July 8, | 1835 | George E. Givens, | July | 16, | 1841 |
| John Finlayson. | July 8, | 1835 | Allen N . Woolyerto | .July | 19, | 1841 |
| Isaac Brock Aylsworth | July 9 , | 1835 | Robert McCuiloch. | July | 20, | 1841 |
| Flint L. Keys.... | July 15, | 1835 | James Powers. | Aug. | 3 3, | 1841 |
| James Sinclair Ega | July 16, | 1835 | Robert J. Paget. | Aug. | 7, | 1841 |
| Henry Sullivan.. | July 20, | 1835 | Philander Grant Fi | Aug. | 27, | 1841 |
| ${ }^{\text {Alfred K. Dewson }}$ | .July 20, | 1835 | Myles Burk. | Oct. | 13, | 1841 |
| Rngers Cotter. | July 31, | 1835 | Robert Moore | Dec. |  | 1841 |
| William S Myers | Ang. 13, | 1835 | James Allen | Jan. | 26, | 1842 |
| William Winder | .Sep. 29, | 1835 | Joun Scott | Feb. | 1, | 1842 |
| Roderick M-Donald | Oct. 5, | 1835 | William Ford | April | 7 , | 1842 |


| Morgan Hamilton | April 7, |
| :---: | :---: |
| John R. Dickson | April 14, |
| Nathaniel E. Manwaring | April 14, |
| Henry R. Goodman. | April 22, |
| Charles Rattray. | April 22, |
| William Reynolds | May 27, |
| Thomas Reynolds. | .June 16, |
| Adam M. McKay | June 25, |
| Severs Dorion. | .June 2, |
| Horatio Yates. | .July 22, |
| Frederick W. Keas | .Sep. 3, |
| Edward Hickman | Sep. 3, |
| William Carrol. | Sept. 10, |
| Patrick Trenor | Oct. 8, |
| George Smith* | Oct. 15, |
| Thomas Cross | Oct. 22, |
| Alexander Roberiso | Oct. 22, |
| Henry Long Jacobs | Oct. 29, |
| John Hyde | Nov. 5, |
| Henry Howard | Nov. 12, |
| William R. Beaumont | Nor. 12, |
| James John Hayes. | Dec. 3, |
| John Tuckey Travers, M. | L.Dec. 31, |
| William Lockton Billings | Jan. 21, |
| Robert Spear. | . March 24, |
| B. W. B. Dixie | . March 24, |
| Theophilus Mack | . April 13, |
| John Anderson Jamieso | .June 10, |
| Win. McCargow | ..July 14, |
| Edward John Ferguson | .Aug. 5, |
| Thomas Hay. | Aug. 19, |
| Edward Barry | . Sep. 9, |
| John Ardagh. | .Sep. 9, |
| Milton C. Schofi | Oct. 7, |
| Silas Wright Cook | Oct. 13, |
| David Layton. | Oct. 13, |
| John Frazer | Oct. 13, |
| James Hunter | Nov. 25, |
| John Kirk. | Jan. 13, |
| Rohert Grant Ja | Jan. 13, |
| William Hayward. | Jan. 20, |
| George Farrah. | March 2, |
| William Tempes | ..April 13, |
| Jonathan Barbe | ..April 20, |
| Jchn Currie. | ..June 1, |
| John Hope Wrait | June . 8, |
| Rufus Holden, M.D. | .June 8, |
| William Henry Wagn | ..July 13, |
| Joseph A. Vervais. | .July 13, |
| Thomas Moore. | .July 13, |
| Henry White. | ..Sep. . 7 , |
| Thomas Holywel | Oct. 19, |
| Frederick Pugh | Nov. 3, |
| James Atchison | Nov. 30, |
| Francis Vize Care | Dec. 21, |
| William Mutch | Jan. 4, |
| Richard Walsh Travers. | Jan. 18, |
| Ediwin Hinwood. | Feb. 8, |
| Join Ardarh. | .April 5, |
| Charles Jones | April 19, |
| John Alfred Mn | April 19, |
| George L. Beard | July 19, |
| William James B | .July 26, |
| Ediward Clarke | March 14, |
| Thomas C. Mackl | April |
| Robert John Gu | April 25, |
| Reginald Henwood | April 25, |
| Henry Hansion. | April 25, |



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| Michael George Long | .June 6, | 1846 |
| :---: | :---: | :---: |
| Gavin Russel. | . July 6, | 1845 |
| John Nichol. | July 18, | 1846 |
| John Reid. | .July 25, | 1846 |
| Benjamin Dic | Sep. 12, | 1846 |
| Orlando Salathiel Winstanley | .Sep. 12, | 1846 |
| James Denton. | Sep. 26, | 1846 |
| Joseph M: O. Cromwell | . 0 ct . 10, | 1846 |
| Frederick Fortescue Passmore | Oct. 10, | 1846 |
| Robert Hutchison Gairdne | Jan. 2 , | 1847 |
| James Salmon. | April 17, | 1847 |
| John Mahaffy. | May 8, | 1847 |
| John A. Harve | May 8, | 1847 |
| Henry Lord. | May 29, | 1847 |
| Henry Reid Melville | June 12, | 1847 |
| Alexander McDougall | Jaly 10, | 1847 |
| Thomas Mair Derry. | Aug. 14, | 1847 |
| Charles Seager. | Aug. 17, | 1847 |
| John Duncomb. | .0ct. 30, | 1847 |
| Francis Armstron | .Oct. 30, | 1847 |
| Charles Andrew Caddy | . Oct. 30, | 1847 |
| James A. Whiting. | Oct. 30, | 1847 |
| John Roy Philip. | Nov. 6, | 1847 |
| William George Wonha | Nov. 27, | 184 |

Our American Exchanges.-We beg to notify our several contemporaries whose estcemed favours we have had such repeated occasions to acknowledge, that with the exception of the New York Annalist, and the Medical Examiner, not one has reached our hands since the 1st December. In consequence of the cessation being so general, we are led to believe that the cause will be found in some alteration of postal arrangements. Whatever the cause be, we request our contemporaries' attention to the subject.

Jury of Matrons.-Our November number contained a notice of the case of Mary Ann Hunt, who was pronounced, by a jury of matrons, "not quick with child," and upon whom the extreme sentence of the law had been passed, in consequence, by Mr. Baron Platt: She has been since examined by competent' medical men, who have cersified to her pregnancy. The result is the suspension of the sentence, with probable ultimate commutation of it-a second convincing proof of the extreme absurdity of the mode of fulfilling the legal re: quirements in such cases, and which. we hope will be attended with an alteration of the statute, more consonant with the present state of science.

## OBITUARY NOTICE.

At Qucbec, on the 10th inst., aged 67, Thomas Farguce, Esq., M.D., for many years an eminent Physician in that city.

BOOKS, \& \&., RECEIVED.
Letter to the Right Hon. Earl Grey, ombracing a statemoni of facts in relation to Emigration to Canada during the summer of 1g47, by the Hog, Apan Ferrie, Member of the Legisative Council, Chaiman of the Executivo Lity Commissian for Emis


Bill of Mortality for the City of Montreal, for the month ending November 30, 1847.

| Diseases |  | 覂 | $\frac{\stackrel{\text { ® }}{E}}{E \pm}$ | $\stackrel{\dot{E}}{0}$ |  |  | 10 1 0 | 0 1 i | (131 | $\left\lvert\, \begin{gathered}4 \\ 6 \\ 1 \\ 4 \\ 4\end{gathered}\right.$ | $\sim$ <br> 0 <br> 1 <br> $\sim$ <br> $\sim$ | $\stackrel{18}{\sim}$ | 48184 | [ $\begin{gathered}2 \\ 5 \\ 1 \\ 25\end{gathered}$ | 旁 |
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|  | ¢Small Pox, | 2 | 2 | 4 | 1 | 2 |  |  |  |  |  |  |  |  |  |
|  | Scarlatina,.......... | 3 | 4 | 7 |  | 2 | 4 | i | - |  | - |  |  |  |  |
| Efidemic on infectious,............ | Ficver;................ | 18 | 19 | 37 | $\dot{3}$ | 5 | 2 | 1 | - | 7 | 9 | 4 | $\dot{6}$ |  |  |
|  | (Dysentery,.......... | 5 | 4 | 9 | $\dot{4}$ | 2 | . |  | . | 1 | 5 | 1 | . |  |  |
|  | Convulsions, ....... | 1 | 2 | 3 | $\stackrel{2}{9}$ | 1 | . | . |  |  |  |  |  |  |  |
|  | Dentition, .......... | 10 | 11 | 21 | 9 | 12 | - | - |  | - |  |  |  |  |  |
| Digeases of brain and a Srspem, | $\left\{\begin{array}{l}\text { Apoplexy........... } \\ \text { Indrocephalus,... }\end{array}\right.$ | 1 | 1 | 1 | . |  |  |  |  |  | - |  | 1 | - |  |
| : ${ }^{\text {ansem,........................... }}$ | Hydrocephalus, .... | 2 | 1 | 3 3 2 | - | 2 | 1 |  | - | - |  |  | i | - | i |
|  |  |  |  | 2 |  |  | - |  |  | . |  |  |  |  | 1 |
|  | Consumption,...... | 18 | 20 | 38 | 4 | 10 | 2 | . | 1 | 5 | 4 | 9 | 3 | - |  |
|  |  | 3 | - | 3 |  | 2 | 1 |  | - |  |  | - |  |  |  |
| Diseases of Thoracic Viscera,... | $\left\{\begin{array}{l}\text { Hooping Cough, . }\end{array}\right.$ | 1 | i | 1 3 | $\stackrel{.}{ }$ | 1 | . | - | $\dot{2}$ | - | 1 | - | - |  |  |
| . - | LPueumonia, ......... | ${ }_{12}^{2}$ | 10 | 238 |  |  | 1 |  | 2 |  | 1 |  | - |  |  |
| Digeabes uf Abiominal Viscera, |  | 1 | 10 | 29 2 | 10 | 2 | 1 | - | . | 1 | 3 | - | 1 |  | - |
| $\therefore \quad{ }^{\prime}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Diseasc of Liver... | 1 | . | 1 | 1 |  | . |  | . |  | 1 |  |  |  |  |
| ; | Cholcra,............ | 2 |  | 2 | i | 1 | - |  |  |  |  | - | - |  |  |
| Ofher causes and Diseases, and | Debilit | 5 | 2 | 7 |  | . | . | . |  | - |  |  | - | 2 | 5 |
| Diseases not specially desig. | Still-born, | 7 | 2 | 9 | 9 |  |  |  |  | - |  | - |  |  |  |
| NATED,................................ | Unknown, .......... | 10 | 4 | 14 | 3 | 2 |  |  | 5 | 2 | 1 | i | - | - | - |
|  | ( Other Causce,. | 7 | 9 | 16 | J | 3 |  | 1 | 2 | 1 | 3 | 1 |  |  |  |
|  | , Total, ........... | 112 | 93 | 205 | 47 | 47 | 12 | 3 | 10 | 23 | 27 | 16 | 12 | 2 | 6 |

monthly meteorological register at montreal for november, 1847.


Thers. $\left\{\begin{array}{l}\text { Max. Temp., }+61^{\circ} \text { on the } 2 n d \\ \text { Min. }\end{array}\right.$

Mean of the Month, $+35^{\circ} 6$. ["Thunder \& rain with lightning.] Mean of Month, 29.80 Inchcs.


[^0]:    * It may be proper to state that the writer of this Easay issun. conscious of any unworthy party feelings, and that he is equally. free from any personal bias, being altogether unkniwn to the writers of the different documents which form the heading of this article.

[^1]:    - The above was no doubt induced by the sad evidence at the time afforded of the unsatisfactory working of the last Lower Cunada Schowl Bill, of which we shall hereafter have uccason to *ay violation of courtesy towards either Dr. Ryerson or Dr. Meilleur, and far less towards these gentlemen conjointly:

    Instance the alleged memorial of the Gore District Council, and the circular letter of the warden of that of the Newcastle $\mathrm{D}_{\mathbf{1}}$ trict.

    In more than one of the European'governments this is the cave; and in France this important officer is styled the "Minister of Instruction," and has a council acting with him.

[^2]:    *See Randall's Common School System, p. 57.
    tSee Pierce's Report of Superintendent of Public Instruction of the State of Michigan, for 1836.
    $\ddagger$ It may be further remarked, that to ensure a proper feeling of ambition and emulation in the tachers generally, the literary acquirements of all common schon masters slopild be such as not only to qualify them for undertaking, at extra hinurs, the instruction of a few private pupils in the next higher branches of education (should such offer among the more wealthy families in their nieghbourhood), but also to allow those of the first, clags to aspire to the head mastership of a district grammar ionool, on

[^3]:    "a yacancy occurring, and by the same rule to encomage a master :in the latter to look forward to promotion as a professor in the university.

    - This Association is to be called The Educational Institute of Seotlind and its object is to raise the status of school-masters throughout the country, and to improve the standard of education; to accomplist which it divides its mernbers into three grades, junior licentiates, senior licentiates, and fellows: and grants to each diplomas, according to ascertained attainnents; and in part proceeds upon the same principle which regulates the granting of degrees in a University. The present President is Dr. L. Sclmitz, Rector of the High School," Edinburgh.
    Whe or tanization of a somewhat similar Association in Canada woutd beprodicicive of very' beneficial results. If an example be -wanting among our American néghbours, a better cannot be set
    "than that of "the Weslern Literary Institute, and College' of
    Profosional Teachicr,", established some twelve of fourteen years
    ago ind diffised over the four Western States, of Kentucky, 'Ghioz Indiana, end Llinois, an interesting volumg of whose pror

[^4]:    *The lowest number now prescribed by tho Lower Canada act is fifteg. In'Prussia the proportion is one teacher to every ten: acholars; and it was very justly observed by Dr. Duncombe, that ${ }^{4}$ if Prussia with a dense population finds that proportiong needful, tho sparsences of our population, in our wide spread territorics, surely demands an equal supply." The fact is, it is in the thinly eetlled solitary back woots that the pregence of the tegeher to mest wanted.

[^5]:    - Regarding this as a desideratum of great importance in whatever improvements may take place in our commen schon sratem, and thoroughty coinciding in the opiniondita fatr Ame. rican writer on education, that feninine delicacy requires chat girls should be educated by their own sex, rom evident consider. at ons that regard their healh and convenience, the prouricty of their dress and inamers, and their domestic accomplishmonts, we are induced to subjoin the following more detailed remarts on this subject.
    The Prussian system inculcates that primary instruction, though divided into twa degrees, his its peculinr unity and gencral haws; udmits of accommodation to the sex, language, religion. and future destination of the papils; and, first, enjoins separate estahlishments for girls to be formed wherever possible. corres. ponding to the elementary and larger schools for boys; at the same time that it delicately prescribes, that though, as a national establistiment, bors' schools shoulit eovet the greatest publicity in their periodical examinations, thoso for females shruld be less so, and thercfore take place in the presence of the parents and maslers only, without any general invitation. Add to which private seminuries where grls are educated are permitted to undertake the office of model or normal schools for private teachers; their competency to instruct being finally tested through a' regular examination by the provincial consistories.

    In Britain, also, his interesting sabject has attracted a due degree of attention; particulary under the auspices of the British and Forcign School Socicty, in whose normal model schools-the preparation of teachers for \&rirls' schools is devolved upon a Indies' Committee, to whose unremitting attention that depart. luent is much indebled: the general commitiec very justly ohserving, that they feel it imposisible to attach tro high a degree of importance to the improvemont and extension of female edu. cation." It may be added, that fifteen years aro the proportion of fumale to male candidates in training was as forty to fifty-eight.

    In most of the American States, this great desideratum has Massachuceus same degrec of atention, but more particularly in Massachusetts; the superintendent of which was, so far back as 184n, ted to remark as follows: "A change is rapidly taking pace both in the public sentiment and action, in regard to the umployment of female teachers." The number of male teachers in all the summer and winter schooly for the past year was tiarty. three less than for the preceding year; while the number of Temales was 103 more. That females are incomparably beter tenchers for vonng children than males, cannot adnit of e doubt. Pheir menners are more nild and gentle, gnd hacies moue in

[^6]:    - In further support of our humble opinion on this subject, we beg to remark, that the grammar schools of Upper Canada occupy, with regard to the interests of the people, even a higher position in the scale of education, than the mittel schules, and lower burgher schools of Germany, and the ecolles moyennes, ormiddle schools. of Trance, as adverted to by a learned and powerful British writer, who, in speaking of the projet du loi, for primary insifuetion introduced by M. Guizot in 1833, and borrowing his materials from the speech of that celebrated minister on the occasion; observes:-The fundamental questions with reference to the instruction of the people, are: 1st, the subjects or branches which it ought to embrace ; 2nd, the nature or description of schools in which it ought to be carried on and 3ad, the authorities which are to superintend, control, and direct them. With regard to the first head, primary instruction (as. distinguished from classical and acientific) is divided into two degrees or stages; the frrst, or lower degree, boing the minimum, must be provided, universally, for the humblest village, as for the largest city. .... Betwicen this and the classical and scientific education which is given in public schools and colleges, as well as in many private acade. mies, there is a wide interval in France, which has hitherto been an entire blank, leaving a large and important middle class without the power of choosing between pare elementary instruction and that higher branch called secondary, which, besides being very costly imparts a kind and extent of knowledge not appro. priate to their condition in life. To fill up this gap, the new law establishes a higher degree of primary instruction in schonls, which from the middle place they occupy, the Freuch, tranglating the German mittel schule, have already named ecolles moyennes. (See Edin. Review, vol. 76.) Need we add, that it is the much wider gap existing between the mere common school and university education in Canada, which we wish to see filled by truly respeotable grammar schools, holding the rank of eff. cient classical academies, in every district of the provinee.

[^7]:    * It was proposed that a fund should be set aside, vielding to euch school " $\mathbf{E} 350$ per annum, to which it was supposed $\boldsymbol{f 1 5 0} \mathbf{n}$ nore would be added from tuition fees-making in all $\boldsymbol{X} 500$, which would allow of $£ 200$ to a pincipal, and $£ 150$ each to two, or $£ 10$, each to three undermasters; and also, that the sum of $£ 500$ shauld be granted to each District that should raise one-half that amount for the erection of a schoohouse; and further, that a Modol Agricultiral. Sehon and Farm should bo attabhed to eagh Grummar Sehool, wht prectical farder at ila hagd

[^8]:    *Vide Medico.Chirurgical Transactions, for 1842.
    Vide British and Eoreign Medieal Reviow, 1843 ; a paper on Congestivo Ague; of Fainting Fevar, witian for the Rugsian Gopempent by the suthor:

[^9]:    I I have latterly been in the habit of considering shivering as $A$ favourable symptnm-an indication that the power of the heart is sufficient to overcome the congestion. If this be insufficient to produce ehivering, the after-symptoms are scvere, if such as to overpowor this symptom, the congestion itself is always dan, geroup.

