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## MONTREAL:

PRINTED AND PUBLISHED BY J. C. BECKET 2111 ST. PAUL STREET.

# UNIVERSITY OF M $\mathrm{M}^{6}$ ILL COLLEGE.  

TIHE ENSUING WINTER COURSE, OF LECTURES, in the Faculty of Medicine, will commence on Monday, November 6th, and will be continued, uninterruptedly, with the exeeption of the Christmas racation, till the last week in April, forming a Session of Six Months.

| Theory and Practice of Medicinc, by A. F. Holmes Principles and Practice of Surgery, Chemistry, <br> "A. Hall, M.D <br> Midwifery and Diseases of Women and Children, - <br> © M. McCulluch <br> Anatomy (General and Descriptive), <br> " O. T. Brunea <br> Materia Medica and Pharmacy, <br> "S. C. Scwell, <br> Clinical Mcdicine and Surgery, - - . . - - - - . J. Crawford, <br> Institutes of Medicine, (Plysiology, \&c.), $\quad . \quad . \quad . \quad$. R. L. Macdo <br> Forensic Medicinc, . . - $\because \because . \quad$. . . . . . Wm. Frazcr, <br> Practical Anatomy, <br> "W. E. Scont, <br> Curator of Museam, <br> Wm. Wright, M.D. <br> Montrenl General Hospital, visiled daily at Noon. <br> University Lying-in Hospital open to the S'udents of the Mideifery Class. |  |  |
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In each of the Courses above specificd, five lectures per week are given, except in the Cour ea of Clinical Medicine, and as Medical Jurisprudence, in the former of which two, and in the latter three only, during the week, are given. The Liceturers in the different departments, will illustrate their respective subjecis, by the nid of preparations, phates, apparatos, specimens, etc. ete:

The Medical Library, which is furnished not only with books of reference, but the ustal clementary, works, will be open to matriculated students, withont charge, under thenecessary regulations. Access to the huseum will be ulluwed at certain hours. The Demonstrator of Antomy will be daily in the Dissecting Rooms to oversee and Direct the students.
N. B. - The tiekets of this University being recognized by the Uuiversities and Colleges of Great Britain, students: who. parpose completing their professonal cducation in the mother country, will obtain an important advantage by having attended its Courses.

TheSummer Courses will commence on the second Monday of May, 1849. Medical 3 urisprudence, Botany,
by Dr. Fiaser.
" Dr Papheau.
A. F. HOLMES, MD. \& P.

Secretary Med. Fac.

## 

TTHE LECTURES, at this SCHOOL, will commence on MONDAY, Gth NOVEMBER, and will be continucd till the last day of APRIL, J849. "During the Session, Lectures on the following Departuents of a Miedical Educaton will be delivered, viz.

| Anatomy, | Bibe |
| :---: | :---: |
| Chemistry | Dr. Sutherland. |
| Materia Medica, | Dr, Coderr |
| Surger | Dr. Monro. |

The Lectures are given in the Frencli language.
Montreal, Scptember $25,1848$.


Ws. SU'THERLAND, M.D.,
Secretary.

## AYER'S CHERRY PECTORAL.

$\mathrm{A}^{\mathrm{I}}$N Anodyne Expectorant, prepared on the new plan of combining the isolated, active principles of medicine, in their purity : a plan which is found to give an energy and certainty of remedial effect far surpassing any other in use. The substances of wich it is composed are those known to be most relied on for the relief of pulmonary disease, viž: Morpinine, Sanguinarine, Emetine, Tart. Ox. Antim. ct Pot. Hydrocyanic Acid, Saccharum, Spt. and Aqua, combined so as perfectly to resist the action of time; and affording to physicians a compound of free, permanent hydrocyanic acid-a desideratum in medicine not hitherto obtained. Its formula has been publislied in this and other Medical Jourmals, and also submitted to some of the highest medical authorities in this country, among which are the Berkshire College of Medicine, Pittsfield, Mass.; Willoughby Medical College, Columbus, Ohio; Bow-
doin Medical College, Brunswick, Me ; Vermont College of Medicine, Castleton, Vt., Geneva Medical College, Geneva, N. Y., and also in manuscript to a large part of the medical faculty of the United States.
The attention of practitioners is respectfully solicited. to this preparation, and it is confideatly believed it will commend itself to their favour and confidence, having been found an invaluable remedy in treating the most obstinate as well as milder forms of pulmonary disease.

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# PEDICAL $\mathbb{A N D}$ PHISICAL SUIENCE. 

[Vol. IV.]
MONTREAL, JANUARY, 1849.
[No. 9.

Ant LXIL-OBSERVATIONS on the CLIMATE OF BARBADOES, AND I'S INFLUENCE ON DIGEASE: TOGETHER WITH REMARKS ON ANGIOLEUCITIS OR DARBADOES LEG.

By James Bonell, M.D.,
Member of the Royal College of Paysicians, London,-Late Junior Physiciata to the Barbadoes General Hospital, -Junior Physician to the Toronto General Diepensary and Lying in Charity.
(Continued from page 201.)
Case 12th.-Great enaciation and debility, cxtensive ulcer on ankle, inability to nove the joint-amputation -recovery.-Joyce Bradshaw, aged 16, a native white female, residing ia the parish of Saint John, one of the healthiest phecs in the island, but having a white pauper population living in great wretchedness. This gill was admitted into Sawaratan Ward, 18 th November, under the care of Dr. Cuting. A few months ago she observed a small pimple on the inner ankle, which at first gave her little or no concern, but being obliged to walk about a great deal it gradually chlarged, forming an ulcer the size of a crown piece; at this period slie applied to a surgeon in her neightourhood, who took her under his care. Finding that there was no improvement, but that on the contrary the ulcer was rapidly becoming worse, her admission into hospital was recommended:
Her present appearan e is chlorotic, auburn hair, light hazel eye, lips pale and bloodless, countenance haggard and expressive of great ansiety and suffering bedy very much emaciated. She says that for the last three days her bowels have been loose, the dejections clay coloured and thin. She has no cough nor cvidence of disease of the hums or heart.

On the inner ankle of left foot there is an extensive ulcer, the edges of which are raised, having the centre much depressed, with a soft brown coloured mhealthy surface, discharging a coffee coloured, ill-scented matter. All power of voluntary motion over the foot is lost, and when an attempt is made to move the anklo joint by manipulation, it is easy to produce dislocation of the tibia on the tarsus.
The patient was put to bed, and the leg placed on an inclined plane supported by the foot rest, and the limb padded to prevent motion, the object being to endeavoür to establish anchylosis; and every means carried into operation for the improvement of her health. Finding, after a month's perseverance, that no improvement had taken place, but that, on the contrary, she appeared to be getting worse, it was determined to give her the only chance of saving her life, and to sacrifice the limb; and indeed it was at best a doubtful chance, since she was in that condition as to render it not at all improbable that death would overtake her on the operating table.

On the 26th December, Dr. Cuting operated, removing the limb by circular incision below the knee. There was'scarcely any hæmorrhage. The stump was lighty dressed, and the flaps very lightly and carefully strapped with adhesive p!aister. In the evening she seemed comfortable, the stump was easy, and she had no spasm. She was ordered,
Liq. Opii. Sed. 25 drops, with Camphor mixture, half an ounce.

27 h .-Had some sleep during the night; bowels moved once towards the morning; she has hal a good deal of spasin in the limb; skin comfortable, has prassed urine of very good colour and quantity. The stump looks well, not much ouzing; is rather low, and althongh in no pain, complains of exhaustion; pulse 96, small.
To have an ounce of sheiry wine in water, and repeated if necessary.
28th.-Did :ot sleep so well last night; is peerish and fretful, and does not like to be spoken to; bowels rather free ; the evacuations yellow coloured and thin; skin cool, hands and foot below the natural temperature; pulse 96 , small and easily obliterated; urime of good colom, but not in such quantify as before. The stump looks well, discharging a thin pale coloured pus.

To have Carbonate Lime, $\Xi^{\circ} \mathrm{j}$.
" Ammonia, $\oplus$ j.
Aromatic Confection, 5 ij . Infusion Columbe, 予 viij. Tincture of Opium, 3 iij .
Two table spoonsful every fourth hour:
30th.-Has rested pretty well; bowels not so trcublesome, is still very restless and peevish; temperature of hands and foot still below par, although swathed in flannel ; there is some redness about the stump; tongue furred, without any redness of its edges; pulse 96 ; urine passed of sufficient quantity and good colour.

## To continue the mixture.

January 10th.-Has improved much in appearance, but for the last few days the stump had not a healthy appearance, and the edges of the flaps have commenced to slough; bowels are again loose; diet last few days milk and arrow-root : there is no pain on pressure in any pait of the abdomen; spirits better than heretofore, and she asks earnestly for a litle meat diet. The varm bottles which had been put to the extremities gave great comfort.

To have Mist. Creta. Comp, five ounces.
Creasote, twenty minims.
Mist. Camph five ounces.
Two table spoonsful every fourth hour.
13th.-Has somewhat improved; appetite good; bowels stil. very 1 rregular, complains of heat in the sto.
mach after taking the medicine; temperature of body comfortable, there is not much discharge from the ulcerated surface of the stump; the granulations are coarse and pale.

To repeat the chalk mixture without the creasote.
To have lint placed on the granulations.
February 7th.-Very much improved in general healh and appearance; the stump is healing, the ends of the bones project outwards, but are surrounded by granulations; sleeps well, has a good appetite, and the bowels are moved comfortably.

> Ps Hydrg. Subnitr., half a drachm. Axung. Porcin, half an ounce.
> To be applied to the ulcerated stump.

She ultimately regained perfect health, and went into the country where she remained some time; it was, however, at last necessary to remove the projecting bone, when all irritation ceased, and the stump healed perfectly.

Remarks.-We have frequently had occasion to lament the injudicious application of ointmente which are frequently too indiscriminately applied to ulcers, either rendering them much more irritable or ctherwise encouraging the destructive process, instead of allaying irritation and promoting the restoration of parts. The harshest applications are frequently chosen-and, as a consequence, the ulcer enlarges, and either passes at once into the chronic state, condensing the tissues, or a low destructive process is set up, which affects the deeper seated parts, and, as in this case, producing irrecoverable disease of the ankle joint. Persons can scarcely yet be persuaded that cleanliness, rest, mild simple diet, and cold water dressing will, in most instances, heal an ulcer; yet this is daily passing before their eyes in our hospitals, and allowed by the patients themselves to be not only more comfortable, but much more effectual than greasy salves. In a tropical climate the water-dressing can be applied with much greater facility than in Europe, or other cold climates, because the temperature of the water is always to be easily obtained, naturally with the atmosphere about $70^{\circ}$, whereas in Europe all this has to be regulated for the patient. Most of our wyorst cases of ulcers have undoubtedly ariser from bad treatment and neglect on the part of the patient, and there are few cases in which amputation was rendered necessary, where a cure might not have been eflected, and a limb saved-if common care and cleanliness had been observed.

Case 13-Compound fracture of fore-urm-broken by Machinery Limb saved-Recovery.-Wm. Mason, $a$ black native, aged 45 years, of very sober and temperate habits, admitted into hospital on 17tij July, Stott's Ward, under the care of Dr. King. He stacs, that a week previous to his admission he was, us usuat, attending to the working of the machinery attached to the vacuum pan on the sugar estate of James Maycock, Esq. In consequence of his own incaution, the iron chain working on a wheel caught his hand, breaking both bones of the fore-arm; the ulna was comminuled, and the carpal end protruded through an irregular jagged wound. He applied for assistance to an unlicensed apothecary who, unfortunately being in the way, dressed
the wound, stuffing tow soaked in spirits of turpentine and some ointment into the wound. The consequence was extensive inflammation and formations of matter which opened in different parts of the arm and hand.

On admission the whole fore-arm and hand were much swollen and firm to the touch. There was a profuse discharge from the openings, of a dirty coloured, ill scented pus, and the cuticle on the back of the hand was peeling off: he states that pieces of bone had come away. There was no attempt at union, and the fracture was readily detected.

Dr: King determined to cndeavour to save the limb, thinking it very improbable that at the distance of time from the receipt of the injury, there would be a supervention of tetanus. The hand was carefully cleansed and placed on a single broad splint, and he was placed comfortably in bed, being put in such a position as to ensure perfect rest, and the limb so put up as to permit the frequent washing or cleansing of the wound.

It would be uninteresting to give a daily report of the casc-it is sufficient to, state, that by the continuance of the most simple treatment, the limb was saved, and he left the hospital quite well in health, on the 19th Aug.
Remarks.--At no very distant period this patient would have been submitted to the knife, as he would have been considered an easy and certain prey to tetanus, as no surgeon would have been bold enough to have a patient under such circumstances unoperated on; and certainly, if the tendency to that disease existed now, in all its former certainty and intensity, the improper treatment pursued in the first instance, was by no means calculated to avert its appearance.
Dr. King had lately witnessed the propriety of trustivg to the powers of nature, in good sound, unabused constitutions, in the case of the chief workman employed in building the hospital, who, falling from the scaffolding, received a compound comminuted fracture of the leg, the projecting end of the tibia was sawed off, and the shaft returned, and by care and rest the man recovered, having a useful limb, and he is at this time scarcely lame. The saving of a limb is a matter of immense consequence, and now that experience has clearly proved the propriety of trusting to nature, even in the climate of Barbadoes, we shall hear of fewer cases of amputation, after severe injury, than heretofore: In 1817, I saw Mason working at the vacuum pan, his arm as useful as ever.'

Case 14th.-Ulcerated Leg-Subject to Glandular Disease - General Health suffering- Operation-Death.-Thomas Connell, a black native, aged 50, admitted into Upper Bishop's Ward, as a patient, under the care of Dr. King. He states that he has for many years been subject to attacks of angioleucitis, which affect more especially the left leg; from repeated attacks the limb had very much enlarged, and the integuments were becoming in places tuberculated. Two years ago, an ulcer formied on the lower part of the leg, giving out an offensive serous discharge. From the condition of the limb, rendering laborious exertion difficult, he has been unable to procure poper attention and nutriments, consequently his general health is very bad. The skin feels loose, flabby and cold, circulation languid, and
there are alternations of febrile erethism and coldness of the hands and feet, almost amounting to hectic. Has him a simple and well regulated diet, and with the use of vegetable tonics, an smendment was soon manifest ; he stulf continued, however, to have a recurrence of diarrhea, and the ulcerated limb was considered to be the source of irritation, and no disposition towards a healing process being manifested in it, amputation was determined on, and performed by Dr. King, by circulai incision below the knee.
Remarks.-An examination of the limb shewed that the vessels generally were much disease.f. The tibial artery was much enlarged and encrustou with long plates. The vein was patulous enough to admit the end of the little fingtr. In order to secure the artery effectually, it was necessary to include in the ligature the surrounding cellular tissue, which was only drawn sufficiently tight to prevent hemorrhage and compass the mouth of the vessel. He bore the operation well, and lost but little blocd The stump was carefully and lightly dressed-and, after being put to bed, he seemed easy and comfortable. On being visited on the following morning, the nurse reported that he had had some sound sleep during the night-had not much spasm, notwithstanding he did not have a satisfactory expression of countenance, looking about with a restless anxious eye, and drawing the bed-clothes over him, as if he was chilly; the temperature of the body was, however, warm. In the afternoon he was decidedly chilly, and the temperature of the hody reduced; hands and foot being cold, and the tip of the nose. There was no gain about the stump, nor was there any secretion.
He was ordered to have
Wine and Water.
Mist. Camph. c Caib. Ammon.
He never rallied, and died on the third day after the amputation.

It came to the knowledge of Dr. King, after this man's death, that the nurse allowed five hours to elapse without administering the stimulants or medicine ordered, a negligence which probably accelerated, if it did not cause, death. It is, however, to be observed, that he never appeared to have any reaction after the operation, and there was no attempt at reparation in the stumpthere was no lymph thrown out. There was a gradual, an unceasing prostration of the powers of life, and at the same time perfect consciousness of his state and approaching dissolution. There were no discoverable traces of inflammation of the veins of the leg or thigh after death, nor were there any indications of diseased action in the brain. The organs of the body seemed sound.

Case 15th.- Ulcerated Leg, Enlarged by Angiolot-citis-Amputation below the Knee-Recovery.-Jacob Armstrong, aged 55 years, a black native, admitted into Lower Bishop's Ward, on the 4th November, under the care of Dr. IKing. States that he has been many years suffering from glandular disease affecting the right leg, on which there is a large clironic ulcer; he has not lately had any acute attack of glandular disease. The discharge fom the uleer is as usmal, very peonliaty of
fensive and serous. Amputation being deemed neces! sary, Dr. King operated by circular incision below the knee. There was little hæmorrhage, although the vessels were exceedingly weak, rendering much caution necessary in securing them.
15th.-Has had but litte sleep--slumbering ansound$1 y$, being very easily roused. There was some oozing of blood during the night; towards morning severe spasm. Skin rother cool; pulse 96 ; tongue slightly furred ; passed urine; ordered to have

Mist. Camph. c Lig. Opii Sed.
16th.-Has had but little sleep, is very low and languid. Pulse 96 , feeble; bowels have been moved; no thirst or desire for food, but at the reçuest of the matron, he drank a tea cup of chicken broth. Passes his urine freely, but in no great quantity.

To have Carb. Ammon., two scruples.
Tinct. Opii, half a drachm.
Spt. Ammon. Aromt., two drachms.
Mist. Camph., eight ounces.
A mixture.
To have Wine and Water.
17th.-Yesterday evening talked incoherently, pullng off the bed-clothes as fast as put on; last night got some refreshing sleep, and although low, he does not seem worse, being more tranquil and rational. The stump looks well ; he is disposed to sleep; skin comfortably warm; passed wrine this morning in quantity and not very high coloured. Whenever the matron takes him diet or medicine he drinks it, but never asks for anything.

21st.-Is much better; skin warm and comfortable; has had rery good nights' rest since last report. The stump has been dressed, and looks well. Bowels areacting healthily. He was placed on full diet, and being in good health, was dismissed on the 17th February.

Case 16.-Ulcer nearly surrounding the Calf of Leg-Bone diseased-Amputation below the Knee-Re. covery.-Mary Jane -, aged 43, a black native, by oceupation a field labourer, admitted into Samaratan Ward, under the care of Dr. Clarke, on the 8th Decem. ber. She has a large chronic ulcer on the right leg, which nearly encircles the calf, the tibia is softened and diseased. She states that she has been under the care of various medical men, but never could get the ulcer healed. On the 26th December, Dr. Clarke amputated the leg below the knee; there was but litte hæmorrhage, and the patient did well, being discharged on the 3rd February in good health.
Third Quarterly Return, foom 1st January to 31st March, 1845. By D. Martindale, Esq., Secretary.

Shewing the number of Patients admitted, died, and discharged, from the 1st January to 31st March, 1845.
Admited in January, .....:30 Died, ......2
\%. in February, ..... 36
6 in March, ....... 28 94 "ac...2 ${ }^{2}$ ${ }^{6} \cdot{ }^{2}$ 6
Classification with regard to sex :Males, .... 65 Females, .... 29 Total, .... 94

Classilication with regard to colour:Whits,...32 Coloured,...4 Btack,... 51 Total,..04

From what Parish and other Parts:-
St. Michael, ........ 44
St. Joseph,.......... 8
St. George, .......... 1
Christ Church,...... 3
St. Thomas, ......... 1
St. Philip,.......... 7
Number of Patients admitted between the ages of


Five Surgical operations were performed during the Quarter.

Case 17.-Ulceration of Toes, Fistulous openings on the site of Foot, disease of Metatarsal Bones-Partial Amputation-Recovery.-Anne Hardy, aged 40 years, a black native, by occupation a field labourer, adimitted into Samaratan Ward, on 6th January, 1845. Suffering from ulceration of the toes and fistulous openings on the side of the foot, her general appearance is delicate and excitable. She states that three years ago an abscess formed between the first and second metatarsal bones, which, after being poulticed, burst, and healed without any difficulty. Shortly after, a second formed between the third and fourth, which also healed easily; and lastly, one formed on the outer side and hollow of the foot, from which a purulent discharge has continued to flow ever since-under the toes there are several small ulcerated openings. She says that she thas been for some time under the care of Professor Thomas, Codring. Col., who recommended her removal to Hospital. After an unavailing endeavour to save the limb, and being satisfied from examinations that there was no probability of the limb being saved, amputation the tarso-melatarsal joint was performed. She bore the operation well, and was discharged, having a very useful leg to walk on.

Case 18.- Contraction of Knee-joint -Chronic Ulcer on Leg, said to have been from Bite of Dog twolve years ago-Amputation below the Knee-Recovery.James Branch, aged 30 years, a native black labourer, admitted into Lower Bishop's Ward, on 16th Septeinber. His general health seems goot. He states that twelve years ago he was bitten by a dog, on the calf of the leg; the bite was a severe one, and it was dressed with turpentine and poulticed, -it did not heal, but formed an uleer, for the cure of which, a great variety of dif? ferent remedies were tried. For the last five years he has been compelled to walk with crutches, and to sling the leg, keeping the limb constantly flexed-permanent contraction of the knec-joint followed, and it is now impossible, by any legitimate furce, to strengthen the leg. The ulcer is of great extent, cup shaped, with small pale red granulations, and horny edges; when cut, the botton of the ulcer is found cartilagenous. After remaining in hospital for a month, with the view of endeavourilg to save the leg, he berame exceedingly impatient, demanding its removal, or his discharge; finding that no improvement had taken place, amputation was determined on, and performed below the knee, on the 11th

December. His recovery was rapid and very satisfac. tory. He is now able to perform a good daj's work, and enjoys excellent health.

Case 19.-Glandulur disease of Leg, ulcerated-Amputation-Recove?y.-J. R. Jarvis, aged 38 years, a native colonred man, by oncupation a cabinet-maker, admitted into hospital 26th February, under the care of Dr. King, having a very large ulcer on the left leg. He has been for some years the subject of glandular disease, which has resulted in permanent enlargement of the limb to a very great size, although he thinks that since the formation of the ulcer, the leg is less painful and not so intense. When he rests the limb, the swelling sub. sides a litte, but does not disappear as it used to do, at the first atlacks. The discharge from the ulcer is, at present, watery and offensive. There not being the remotest chance of saving the limb, the leg was amputated below the knee, hy Dr. King, on the 201h March. He quickly recovered, and was discharged much improved in heallh.

Case 20.-Chronic ulcer of the Leg-Diseased Bone -- Amputation below the Kner--Recovery.-John Roherts, aged 27 years, a black native, admitted into Lower Bishop's Ward, under the care of Dr. Culting. ... His general health appears to be bad, is very thin, and is evidently very deficient in intellect: has never been the subject of glandular disease. He states that some time ago he received a blow on the lower part of the tibia, on which spot an ulcer formed, not having taken any care of it, it enlarged very much, and at length the bone became discased. Di. Cutting performed ampuation below the linee, on the 20 h March, and he was discharged well on the 20 th April.

After his recovery he was tormented with halluenations, fancying that devils and snakes were constanty crawling about his bed, and on the floor. He has not improved at all, in intelligence, since his discharge, biut, on the contrary. is becoming a confirmed lunatic.
(To le concluded in our next.)
Art. LIX-CASES OF GUNSHOT WOUNDS OCCURRING IN THE MONTH OF JUNE, IN PARIS.

## No. II.

By George D. Gibe, M.D.
Licentiate of the Royal College of Surgeons, Ircland.
In continuation of the subject of gunshot wounds, I enclose the following cases, where the chest and abdomen were implicated; they are fow in number, but will be found not devoid of interest, and hope that they will prove acceptable to your readers.

From the immediate fatality trequently attendant upon wounds involving the great cavities of the body, a comparatively small number of them were to be seen in the hospital after the events, of June. of those who survived the primary effects of theirmint ries, a few were very spedily cured by ble most active treatment, whilst, again, others, in the maiority of whon the wound involved the thoracic cavity with lodgment of the balls, are even now to be found, the issue of whose cases is as yet doubtul; my notes of these latter are of course not yet completed, and I refrain, on this account, from forwarding them.

All of the cases which I now send have fallen under my personal observation, but the notes of four I have, as you will perceive, preferred extracting from the Gazette Medicale.
20. Case of a soldier of the line, in the Hotel Dieu, where a musket ball penetrated the left arm, without fracturing the lione, and entered the chest, fracturing the left odge of the sternum near its midde, and remaining lodged in the antenor mediastinum. On inspining frecly, air bubhled oint of the wound, with oozing of blood, and it was supposed, from this circumstance, that there was wound of the ling ; the patient, however, never spat ilood, but suffered f:om dyspnea, cough, and symptoms of pleuritis. for which he was actively treated. Sloughing, to some extent, occurred around the wounl, and the beating of the lieart against its moder surface was very plainly seen. Some weeks afterwards, he was very weak, with hurried hreathing, boose cough, and expectoration of frothy mucus; muco-crepitating rales were heard over the anterior surface of the right lung. On coughing, pas and air escaped out of the wound, which then looked healthy. On the sixty-second day, an absecss from within pointed on the right side of the chest near the nipple; it was opened, and permitted of the cex. traction of the ball witi perfect ease, since which time he has beeil progressing favorally. He now ( 8 Sept .) is gaining flesh and strength, sleeps well, has a good appetite, and his healthy colour is returning, his palse is 90 , and sofl, and his respiration 24 in the minute.
21. Case in the Hotel Dieu. A ball had entered the left side of the chest, just bolow the clavicle, passing outwardsilear the inferior angle of the scapula; this was a most severe case, hwmorlage occurring from both wounds, accompanied with distressing cough, and spitting of blood, the physical sigus of paeimonia quickly presenting themselves. Although actively trented at he commencement, this case lingerod till the tenth weck, when it terminated fataliy.
22. Case of a woman, in the Hopital St. Louis, who had received a wound from a thall, which had entered just above the heart, remaining lodged in the chvityot the chest. She liad spitting of blood, \&c., was bled eightimes, and in 15 days after, she was discharged cured-Gaz. Med.
23. Case of a ma in St. Louis, wounded by a ball which had penetrated the cavity of the chest, behind the clavicle, passing in an oblique direction from ahove, downwards towards the middle of the scapula, Which thad fractured. The fact of penetration was indicated by the spitting of hood, by the dulliess on the same side of the chest, and oven, satd the surgeon, by the esistence of pneumo-thorax. Mis patient was bled seven times, and, when Jast seen, his cure was considered complete-Gaz. Med.
24. Case of a lieutent of the Garde Mobile, alin in. St. Louiss who had ben wounded by a hall whoh entered the chest near the scapula: he had, immediately afier, spitting of blood, which continued for several days. He was bled seven times, when, findjig himself sufficicntly well, he went into the gardens
of the hospital to smoke a cigar. Scarcely had he committed this foolish act, when he was seized with dyspncea and spitting of blood. A fresh bleeding proved sufficient to restore him completely; and permit of his departure from the hospitai.
25. Case of a Garde Mobile, aged 19, in the Hotel Dieu. A ball had entered his chest, above the left clavicle, and passed out in the scapular region, fracturing the bone in its course. The patient spat blood in great abmance; he was bled five times; the splinters of the fractured scapula were extracted; he was purged once, and was discharred from the hospital after a stay of only 20 days.-Gaz. Med.
26. Case of a young Garde Mobile, who was wounded in the Clos St. Lizare, the hall entering near the vertebral column, a litie below the scapula, traversing the convexity of the side of the chest, and becoming lodged near the steraum, appearing as if the chest had hoen penctrated. In this case, the dyspncea, the distress of the patient, together with the presence of the hall at a point opposed to that of its entrance, naturally led to the supposition of penctration. The ball was extracted shortly after, and the case did well.
27. Case in St. Louis, where a ball had entered the external surface of the left arm, three inches below the shouders, passing behind the humerus and in front of the scapula, making its exit near the spine. Extensive suppuration followed, requiring numerous openings to let out matter, and the patient was quite cured in the early part of August.
28. Case, also in St. Louis, where a ball had entered the lefi side of fith dorsal vertebra, becoming deeply lodged in its substance, and closing well without suppuration, or any bad effects whatever.
29. Case in La Charité, of a solbier of the line. A ball had entered near the shoulder, between the scapula and clavicle, and remaining lodged. Great suppuration followed, requiring openings at the inferior angle of the scapila, the anterior surface of the shoulder, and other places from the two former protruded large flabhy granuations. The wound, on 29th July, extended downwards over the whole of the anterior surface of the scapula, it was probed, and there were withdrawn portions of the fringe of his cpaulette and pieces of his coat and shitt From that time the wounds began to close, and were healed by the 17 th September, the ball still remaining lodged. He could not then raise his, arm, but could move it backwards and forwards.
30. Case, in the Val de Grace, of a soldier of the line, who had feceived a vound in the abdomen, the ball entering in the epigastric region, wounding the left lobe of the liver, and passing out over the anterior surfaces of the left infetior ribs, crossing them to ts course, which was slighty circuitous, the wound produced an hepatic fistula, with the escape of bile and blood, noir comme de laudanum; he had the symptoms of local peritonitis, which were spedily dissipated. The inflammation, however, was sufficient to produce adhesion between the wounged surface of the liver and the peritoncum, closing the fitula, and merely
learing the open wounds of entrance and exit, which, after some weeks, had perfectly healed, and the soldier was discharged cured.

Another equally interesting casc, where the liver was wounded, followed by a perfect cure, occurred in the same bospital, but I have been unable to procure the notes of it.
31. Case, in the Hopital St. Antoine, of wound of the abdomen, where the ball had entered the superior part of left iliac region, wounding the intestines. Peritonitis supervened, which, however, yielded to treatment; and the result of the case was, the formation of a fistula communicating with the small intestine, from which escaped, at times, fæcal matter, together with a dark greenish fluid, resembling bile.
32. Case, in the Val de Grace, of a soldier of the line, who received a wound from a ball which penetrated the left side of the abdomen, remaining lodged in its cavity; there did not appear to be a communication between the opening and any wounded intestine; symptoms of peritonitis quickly showed themselves, but were overcome by active treatment, as in the former case, and the patient, when last seen, was progressing favorably, but the wound had not closed.
33. Case, in La Charité, of an officer, who had received a wound in the anterior part of the right side of the abdomen from a ball, which had passed out behind, to the left of the vertebral column; all of the signs were such as to lead to the belief that it had traversed the abdominal cavity. No symptoms of peritonitis followed, and after he had recovered from the primary effects of the shock, he appeared to be about to attain a speedy cure, when an unfortunate accident, a phlebitis falling upon venesection, caused him to succumb, and furnished an opportunity of ascertaining the real track of the projectile.

Autopsy.-The ball, after having traversed the integuments of the abdomen, as the pain indicated, was immediately directed from its course-probably by the influence of muscular contraction-and glided along between the skin and the musculo-aponeurotic layer, as far as the spine, where it had become divided into two fragments of unequal size, the larger of which, after passing over the spinous processes, had escaped through the opening to the left of the vertebral column.-Gaz. Med.
34. Case of a man, in La Charité, who had receired a shot on the right side of the abdomen, the ball having passed out on the left at a corresponding point; peritonitis supervened on the second day. Every one believed that the ball had passed completely through the abdominal cavity, but under the influence of general blood-letting, and of the free application of leeches and cmollient poultices, the inflammatory symptoms were dissipated as if by enchantment, and it was soon perceived that the wound merely concerned the integuments.
35. Case in the Hotel Dieu, where a ball had entered over the lower ribs of left side, traversiug the integuments, and escaping just above the anterior superior spinous process of the flium. Discharged well in August.
36. Case in the Hotel Dieu, where a ball had entered midway between the anterior superior spinous process of the ilium, and the trochanter major of right side, making its exit at the very margin of the anus: no bad effects followed, and the man was discharged well in August.
37. Case in St. Louns, where a ball had entered the left groin, traversing the perineum, and escaping behind the trochanter major of the right femur ; suppuration, to some extent, followed, but the cure was nearly complete by the middle of August.
38. Case in the Hotel Dieu, where a ball had entered in the upper part of the umbilical region, taking a course obliquely downwards and outwards, and making its exit an inch above the crest of the ilium, having traversed the integuments. The patient was well by the end of July.

Paris, September 23, 1848.

## Art. LXIV.-GLOSSITiS.

## Br George Griffin, Esq.,

Surgcon, Half.Pay 85th Regiment, Quebce.

Within the last two or three days 1 have seen in the Medical Journal under your superintendence, the very interesting case of Miss M-_, as furnished by Dr.Marsden. I am of opinion that it is, in some sort, the duty of every medical man, to lend what aid he can in the investigation of rare and dangerous diseases, more especially, and to specify what experience may have taught him. Therefore, in furtherance of that conviction, I am induced to consider that, perhaps, this communication may not be uninteresting to your readers.

It has been my fortune to see but two of these cases during a service of upwards of 35 years, and they are well impressed on my mind. The first was in the person of a Neapolitan sailor, while I was on detachment in one of the Ionian Islands, in the summer of 1822. The man was landed from a gun-boat, without any history of his state, further than that he complained, for the first time, about 24 hours previously to the vessel making the Island.
I found the tongue enormously enlarged, protruding from between the tecth; breathing hurried, anxious, difficult, performed altogether through the nostrils; suf. focation impending; face livid; eyes protruding; moaned incessantly, and very restless. The accompanying fever purely inflammatory; heat of stin intense, a powerful pulse, and strong action of the carotid and temporal vessels; he was sensible, could not articulate, but expressed his distress by signs. Blood was taken from the arm without delay, in no stinted degree; the bowels freely ojened by active medicinesbut there was scarcely time to carry these remedial measures into effect, before it became abundantly evident that, unless relieved, the man must die, and that shortly. I had no one to advise with, and had never seen or heard of the disease before, however, there was no alternative, and the mode of relief evident; having secured the head from moving, I depressed the lower jaw and tongue, with a strong iron spoon, as math as practicable, and then intrombed a scaliel side-
ways or flat, as far back is I could, and made two in. cisions into the dorsum of the tongue, from behind forwards to the aper, one on each side.
The hœmorrhage was very profuse, but the relief immediate; no purulent matter followed the incision. So rapid was the declension of the swelling, that the next day the place of the incisions could scarcely be detected; those who have witnessed lacerated wounds of the tongue, must have remarked this circumstance. A week or two afterwards, I had a second case under my care, also a foreign sailor. Now aware of the nature of the disease and its danger, I no longer hesitated, but made the incision at once: both these men did well. The after treatment was small doses of some mercurial preparation to affect the mouh. I am writing of occurrences 26 years ago,-I do not know that I should have recourse to mercury now : the result, however, was quick recovery.

The father of the young lady whose case is related by Dr. M—, has been well known to me for many years, -his daughter from childhood. Some time in August last we met accidentally, and he narrated to me his daughter's perilous state, and the circumstances attending it. 1 went to see her the following day, and she expressed to me the immediate relief she had experi-enced from "the incision," and her distressed state previously. She was, as might have been expected, in a state of great debility, but recovering. The tongue was, though large, generally soit, and of a dull leaden colour. As well remarked by Dr. Marsden, "The disease is so rare, that it usually thles the surgeon quite by surprise."

Esplanade, Quebec, Nov. 20, 1848.

ART. LXV.-OBSERVATIONS ON THE THEATMENT
OF EPILEPSY BY THE SCUTELLARIA GGNICU.
LATA-THE FORM OF ITS ADMINISTRATION, \&c.
By R. W. Erans, M.D., Riohmond, C. W.
The treatment and cure of diseases of the nervous system are considered extremely obstinate and often impossible. The mere circumstance of the innumerable remedies which have been lauded, for the removal or cure of epilepsy, will illustrate this point. Of these remedies, some are useless, some, though they sometinies succeed, fail trequently, and few are, doubtless, more generally efficacious. However, I am acquainted with no medicine in the materia medica which can be called a specific for epilepsy, therefore it is our duty to make enquiry after new remedies, with all the zeal and assiduity in our power. When a substance, easy to be procured and harmless in its nature, is introduced to the notice of the profession, does it not deserve a fair trial?

Scutellaria geniculata, or skull cap, has been a popular remedy for hydrophobia in the hands of quacks from the earliest date, which causes it to be partially overlooked by medical authors.' It is described by Linneus under the class, Didynamia, order, Gymnospermia. It is to be found in Europe, the United States, and Canada. It has a bitter taste and a slight alliacious smell.The caly is crowned by a concave appendage resembling a saucer; hence the name. The following is
the formula which I employed in the following cases of epilepsy:-

> P Scutellarix Geniculatæ, 3 ij .
> Aq. Bullientis, $\overline{3}$ vij.
> Fiat infusio.

The mode of administration is to begin with two tablespoonfuls every eight hours, increasing the dose after the termination of a week to $z_{i j}$. with an occasional aperient.

Case 1st.-Miss - - wt. 26, consulted me in May, 1848. Her mother gave me the following history of her case:-In the year 1838, she observed her fall down suddenly in an epileptic fit, which continued for some minutes. From that period she had repeated attacks every six or seven days ; frequently at night in bed, and always about the full of the moon. She consulted the most eminent men in Canada East, and her mother's brother held a consultation of the medical gentlemen in Philadelphia. She had taken, for months, nitrate of silver, iron, zinc, strychnine, digitalis, ammoniure of copper, valerian, musk, \&c., without any benefit. 1 directed the skull cap, according to the above formula ; she continued it daily for six weeks, when a profuse salivation took place, with a slight constriction of the fauces. I order:d the medicine to be discontinued, and prescribed a seidlitz powder; in a few days the ptyalism ceased. Nor. S.-She has lieen taking the medicino daily for four months, during which she has not had a single attack. She enjogs excellent liealth, animated spirits, and good appetite. Her memory scems to improve daily, and is in hopes that the disease will never return.

I have under my care two other cases which seem to manifest the superiority of the medicine. They are, in a manner, almost recovered, with the exception of a violent palpitation of the heart at the expected period of attack, which pasies off without any bad result by the timely administration of a few doses of tinct. digitalis, and by keeping the patient free from mental irritation, which is a frequent cause of epileptic palpitation. It is necessary to state, that in order to secure a perfect cure the medicine ought to be continued five or six months.

Should the above medicine be found, by my professional bretaren, successful in the cure of evilepsy, I shall be amply rewarded.
I beg leave to send you a specimen of the plant; probably it may elicit something from some of the readers of the British American Journal.

Richmond, C. W, Nov. 8, 1848.

ART. LXVI.--AURORAL DISPLAY OF NOV. 17.
By J. H. Lefroy, Esq., Capt, R. A., Magnctical Observatory.
I enclose an account of the Aurora of the 17th November, as visible at Penetanguishene, and should it not occupy too much space, should be glad to see it printed, in connection with the meteorological re. gister. It must have been a display of tery uncommon splendour, and is peculiarly interesting, because attended with the greatest disturbance of the magnetical elements ever recorded. The declination cxhibited is
change of $4^{\circ} 5^{\prime}$, which has been but once exceeded namely, on the 24 h October, 1847, when it ranged $4^{\circ} 22^{\prime}$, but the change of the horizontal component of the force, amounted to not less than one-seventh of its whole amount, or $0.150-\mathrm{a}$ quantity quite without precedent. The change of the inclination exceeded $2^{\circ}$. The change of the total fore was not less than onetwelfh of its whole amount, or 0.08\%. Previously to Jast year, one-half of any of these quantities was regarded as a great extent of disturbance, and had been seldom, if ever, attained in the seven years. The two last years, 1847, 1848, have been remarkable for the number of Auroras recorded, and the extent and frequency of magnetical disturbances, both phenomena lyeing, no doubt, related to peculiarities in the electrical condition of the atmosphere; in what manner, I think philosophers are very far from having decided; but it gives not a little importance to magnetism, that it furnishes in this way a proof of operations or effects not cognizable otherwise, and probably important to a fuil comprehension of the physique du globe, in direct proportion to their remotevess from us. The beariags of the subject upon sanitary questions, particularly the spread of epidemics, is so much more your province than mine, that I need only allude to it.
"H. M. S. V., Mohawk, Penetanguishene, Nov. 17. -Light airs and clear. East. At 8-5, P.M., an auroral arch extending from West, through South, to East; highest at $9-15$; very bright; disappeared at 11 ; reappeared at 11-30; remained until daybreak. There was a most brilliant display of streamers from ali parts of the heavens, but least thick from North to East, and brightest from North-west, through South, to E.N.E. Dense mass of bright continuous rose-coloured light to S.E., and very bright streamers from thence, and all round, as above, to a coronal point near Andromeda, ahout 100 S. b. W. $\frac{1}{2}$ W. from the zenith. The corona appeared as formed of three pointed fleeces of combed wonl, with the points crossed. The display was most brilliant from $8-45$ to 9.45 ,* when it faded very considerably. The distance of the corona from the polestar was $55^{\circ} . t$ In the N. E. quadrants were but few straight bright streamers. The sky, when not rosecoloured, was intense bluc, and stars even of sniall magnitude, distinctly visible, . $;$ the material bulk of the display was from S.E.C.E. to S. W. b. S. Tho corona was lastingly and strongly defined for nearly an hour, and certainly not over 130 from the zenith.Therm. 220.

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\text { Toronto, 13th December, } 1848 .
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[^0]ART LXVII-FURTHER REMARKS ON THE STATE OF EDUCATION IN CANADA.
(Concluded Jrom page 213.)

1. Report of the Superintendient of Education in Lower Carada, for the Scholastic Year 1846-7. Printed by order of the Legislative Assembly, Montreal: 1848. Pp. 178. By Dr. J. B. Meilleur, Chief Superintendent of Education, Lower Canada.
2. The Monthly Journal of Education for Upper Canada; eight numbers; commenced in January, 1848. Published at Toronto, and edited by the Rev.Dr. E. Ryerson, D.D., Chief Superintendeni of Schools, Upper Canada.
To return to the Report before us. Our limited space will not permit of our following Dr. M. through the whole of his rather discursive course, but we can. not refrain from quoting his pertinent observations on the alleged unconstitutional proceeding and dreadful hardship of compulsory contributions! which, according to the shameless assertions of certain ignorant or unprincipled demagogues, are so utterly repugnant to the rights, feelings, and habits of the worthy "habitans" of Lower Canada.
"Compulsory consribution, in cases of necessity and for the cominun good of the ininabitante, has from time immemorial been practised in Lower Canada. It is by this mode of contribetion that, under the law of the conntry, they have, without foreign aid of any kind, built their churches and raised other religious estabishments, which testify so honorably to their good feeling and zeal for the advancement of religion. Now, the people have never regarded as 'taxcs' asscssments for these purposes, nor as 'taxcrs' the 'Trustees appointed by a vote of the majority to im. pose them upon the assessable property of the parishioners ac-cording to value. And what would have been their satisfaction and tiecir gratitude, if the Government bad, by an act, cume forward and offered them one half of the sum required for any of these purposes, on condition that they should furnish the other half! What then ought, for the same reason, to be the cagerness of the inhabitants to comply with the requirements of the School Law, to obtain the aid of which they stand in need in order to procure for their children the advantages of education, which is above all material advantages.
"The fact is, that the inbabitants of Lower Canada were, be. fore the passing of the late education laws, habituated to contribute by assessments, compulsory or volumtary according to cirinmstances, towards those objects of common interest most dear to them. Why then should any one take pleasure in exciting among them fear, troubic and alarm on the subject of the School Law?
"The sum required by law for the purposes of education, is not. according to the true meaning of the word, ' a tux,' but a mere onntribution, since it is only required lor the immediate benefit of the children of those who pay it,-since it is expended in the locality itself under the cyes of the parents and partics interested, under the direction of those whom the inhabitants liable to conribution have voluntarily chosen for the management of the schnols,-since, instcad of being carried out of the locality, this sum has the effect of bringing into it an equal sum, to be therein expended for the same purpose and in the same manner, and lias consequently the further effect of distributing money in the loca: lity and making it circulate there (instead of taking it away) to the advantage of the farmers and traders in the midst of whom beside the teachers and their femilies, who are so many consumers of agricultural and other produce, which they daily purchase with the pay they receive,--since the School Commissioners are.re sponsible and are bound by law to render an account to the parties interested of the application of both the sums in question and of all their proccedings."

In spite of the foregoing indubitable truths, such is he perverse spirit engendered in various parts of the Lower Province by utterly reckless demagogues, and these not altogether confined to the same race as the
"confding Habituns,"一that the great hlessings derivable from even the present highly beneficial, though, of course, still defective, educational law, are either aitogetiner rejecterl, or made to fall far short of what they otherwise might be; and with sorrow are we compelled to add, that a few isolated spots in the Upper Province seem to be contaminated with the same poisonous leaven; among which we scarcely expected to find the good city of Toronto, or any portion of the loyal men of Gore. Of these, howeve; more hereafter, should our space permit.*

But to return to the Report. Not content with discussing the many conflicting topics embraced by his general observations,-Dr. M. next proceeds not only to maintain, for ten good reasons, which he gives at length, that the "principles" of the present school law should remain intact, thongh subject to no less than 29 proposed improvements,-but to marshal in a similar formidable decimal array, the varivus defects of that very law. And then, horribile dictu!-_guided by the same cabalistic number, to enumerate in detail no less than ten different conflicting systems of education, which it would seem, have already been proposed to supercede the law at present in operation; but which, fortunately, he immediately afterwards, uncermoniously proceeds to knock down, like nine, or we would rather say like ten pins, one afier another.

Not doubing that some of the defects, as well as im. provements pointed out, will deservedly meet with due attention by the Legislature, when the subject comes before it, we are content to pass them by; and the same might also very well be the case with the greater part of the conflicing and some what crude systems that have, been suggested, as superior to that at present in operation; but there are some observations, hinging on the eighth and tenth items, which we cannot allow io pass altogether umoticed.

In rejecting the idea of attempting to simplify the working of a public or National Elucational system, (as proposed under the eighth head, by leaving it more to the arbitrary diseretion of a responsible Superintendent, guided by a brief Act embrieng only the fundamental principles, Dr. M. justly observes,-as follows:

[^1]An influential portion of the community urgently demand another system of instruction, and it seems that the legislature has not yet done with this important question, since the Minister of Pablic Instmetion bas but very lately laid the drat of a new Edncation Law before the Chambers. The present Common School Law for Upper Canada is the third since $18^{\%}$, and it contains 45 sections, to which 11 others have been since added by way of amendments, under an Act passed for that purpose during the last Session of Parliament. The cducation lav of the: State of New York, on which that of Upper Canod' is founded. (as our own is also in part,) contains 200 sections, and has bee: twice amended since 1841.
"We are not, therefore, justified in expecting very soon to have a perfect cducation law, however succinct and brief it may be; more especially if, as heretofore, so many persons hare it band in it, and if it be got up in 100 much haste."

## And further:

"'The people of Lower Canada, still generally possessing but little education, and more particularly but little accustomed te take part in carrying out the laws by which they are governed. are naturally enough afraid of those of which they do not at first thoroumbly understand the object and the means proposed for its athinment; witness the opposition which they made to the Rond Act, and which has been made to the present School Law in some parts of the country. But it may be truly said that when they are accustomed to the working of a law, they become attached to it as to their household gods.

It would therefore be very inadvistable to turn them aside and discourage them by it legislation entirely different, which must necessarily bave the of fect of losing for them all the fruit of that experience which they heve acquired at st great a sacrifice"

Nay, more ;
"The inbabitants of Lower Canada, like those of Scotiand, where the system of elementary instruction prodnees such admirable resnlts, will soon contract by practice the habit of paying less attention to the law and to its weak points,-less to the legality of the means and procecdings of those whe carry it into execution, -les th the rules and formathics to be observed in the matter of contribution, than to the ohjects of the law, which they will soon come to feel and know as if by intuition."
We should have been happy to have equally acquiesced in Dr. M.'s obscrvations on the lenth head; hut, unfortunately, in discussing the merits of this arrange. ment, as a thing proposcd, viz.: "To have but one Law for all cases, and but one system of general Education, with a Superintendent General and local Superintendents, i. e., a Superintendent for cach distriet or county," -Dr. M. secms to have lost sight of the fact, that there was such a section of our great Prow, e as Upper Canda,-and that the very system to which he alludes, as in prospectu, is, in spite of all oppositicii, now in active operation in that benighted quarter, in near a three-fold more successful degree than that of which he is the directing head.-Nay more, we will even venture to tell the worthy Superintendent, for whose patriotism, zeal, and talents, we have a high respect, that we are disposed to think that he was stepping rather out of his official way, when he ventured upon any observations tending to call in question the merits of any part of the Educational Law of the Upper Province, and more particularly to depreciate the value of the services of that indportant branch of its machinery, the District Superintend-: ents; and that delicacy should rather have led him to refrain altogether from alluding to the operation of the Upper Canada school law, if he could not do so in terms of commendation; and further, that in thus acting he would have only been following the cautious commendable example of the Superintendent of that scction of the Province. Such, however, are the natural fruits

[^2]of the impolitic and mischievous, and therefore unwise, growing practice of legislating separately for the two great component divisions of the same British Province, -as if inhabited by races of utterly irreconcileable luabits, Ceelings, and principles.

It being entirely out of our power to quote at length the vatious arguments adduced by Dr. M. against the introduction of District Superintendents in Lower Conada,-we would have preferred referring our readers to the Report itself; but as that might be considered unjust to fits writer, we trust they will rest satisfied with the following brief disjointed extracts.
" 10 th. Of all the faults of the present School law which have been announced by its opponents, that provision which constitutes only one Superintendent of Education is, accordng to them, the greatest. But the law, uew and imperfect as it otherwise is, like its predecessurs, operates generally well under the administration of only one Superintendent. In the Lower Provinces, and in soveral of the United States, where nothing is spared in providing for the edication of the children of the people, and where the people are so prosperous, the generel working of the School Law is entrusted to a single Superintendent for each State.
"There are, it is truc, twenty-two Superintendents of Education in Upper Canada, whose salarics are paid by a special tax. levied for this puriose upon the inhabitants by the Municipal Councils. But the inhabitants of Upper Canada, live on a soil and in a climate much more favoruble for agriculiural purpnses, are rich in comparison to those of Lower Canada; and yet they conplain of this provision in their law; and therr Common School Act does not worl: lietter there than ours does here, although they have no political aspirants to decry the law for the sake of gaining popularity with the inkabitants."
And again, continues Dr. M. :-
"With regard to this, if I consulted my personal interest, I should willingly agree to the appointment of a Superintendent for each County, or at least for each Judicial District, as proposed. because the duties they would have to perform would tend greally to lighten the work and responsibility of the Superintendent-1mchief. But there are general interests, which I have no right to - sacrifice to any particular interest.
"It would be absolutely necessary that these Superintendents should, as in Upper Canada, be indemnified for their disbursements and travelling expenses, and paid for their time and trouble, by means of an additional tax to be levied on our poor country people. And ono or two things would happen; either we must allow a tolerably handsome sum, to ensure the services of educated, fit and zealous men, of independent means, or we should not generally be able to induce men having these qualifeations, and an honorable standing in society, to abindon their business for the parpose of taking upon themselved the duties assigned to a County Superintendent. These Superintendents must also have a strong feeling of subordination and of perfect submission to the orders of the Superintendent-in-chicf, otherwise it would be impossibic to reckon upon that regularity and uniformity so desira. ble in the wolking of the law. Now, men, possessing the qualifications above mentioned, and whom the offer of a trifling gain could not tempt, would not senerilly be willing to accept an office of this kind upon these indispensable conditions; and it cannot he conccaled that, as these indispensable qualifications might be wanting in some of the men who would offer thernselves for the office, they would be incompetent to perform its duties with advantage, Sc.:

- From all of whieb it may be inferred that far from being able to reckon upon usefil and efficient cooperation on the part of the local Superintendents. we should have every reason to fear that they would contribute to embarrass the local working of the law, and to occasion an increase of expense without producing any effect or result tending to the advancement of the cause, for each would wish to act upon his own sytem."
Dr. M. then proceeds to infer that for political reasons it would be equally unsafe to entrust the appointment of these officers to either the people, or the Govern.
ment ; and yet, after, at all hazards, proposing two modifications, viz., either dividing the 36 Counties of Lower Canada into 20 School Districts, or appointing a Superintendent to each of the present great judicial Districts, he al length comes to the conclusion that:
"It is, however, very casy to obtain an equally good result without the co-rpcration oí such Supelintendents, by means of the lucal Visiors provided for by the Act, who without removal from their homes or any travelling expenses whatever, are able to visit the schools in their respective localities with as much zeal, interest, and carnestness, as pleasure.
"Let the present system then have a trial of two or three Sears, and if the visitors fail in their dnty, the clergy and the people will have no reason to be surprised, or cause to complain, if the Legislature shonld assign them masters, for the sake of the weifare of our youth."
Now, with every disposition to do jusice to so valu. able and influential a class of honorary officers as local and general visitors, whether civil, judicial, or ecclesias-tical-without whose active and enlivening, as well as wholesome co-operation and supervision no public Educational system can be regarded as complete, we would look upon the substitution of such irresponsible Inspectors for paid District Superintendents, as preposterous and absurd, independent of their duties being altogether separate and distinct.

But setting aside our own particular predilections or prejudices, let us unhesitatingly refer to the results in the neighbouring States, and among these, to that of New-York in particular,-regarding which, by the by, Dr. M. is in error in inferring ( p .37 , that the Educational Departunent is there managed solely by the Secretary of State, (as State Superintendent), with the aid of an assistant, there having, for the last seven years, been Superintendents to every County, who have proved the very life and sonl of the Educational system.*

But if we would contemplate popular Education among our American ueighbours, in its most extended and satisfactory light, let us at once turn to the tran. scendantly laudable example set by the New Englaid States,-where, under the powerful inpulae of that best of all National arrangements, the "Free School System, it has been in successful, yet gradually improving, operation for near two centuries; and among which, we believe, at least four, out of the six States, have lately heen led to adopt the same improved plan of Superin. tendence as that of Nei-York, viz., a State Superinten-: dent, with one or more County Superintendents, (yet retaining even a Superintendent to each Township, and Trustees to every School District.

In fact, such is the general confidence in this recent improvement, that the Board of Education of the State of

[^3]Massachussets, have been justly led to oisserve, that " five of the New England States are now zealously engaged in the promotion of a cause, from which posterity will receive ampler and more precious blessings than if they were to inherit from their ancesiors the richest mines of silver and gold, imbedded in a soil spontaneously teeming with the choicest productions of the earth!"

But to return to the Report before us. After devoting ten pages to the rather unnecessiry and possibly rather mischievous discussion of the merits of this single debateable point, the worthy Superintendent is led to regard as a preferable proceeting:
"Moreover, it is not mere superintendence over the schools and those to whom they are entrusted, huwever necessary and suc. ressful this may be, which will proenre us good tcachers, or will even most contribute to crown their labours with success, if they are not themselves sufficiently cducated; this must be done by providing means for training and instructing them, and for paying them adequately for their services. The most important point, then, is first to find out what these means are, and then to put them in practice for this danble object. I am therefore of opimion that any ouc of the sums mentioned in the former part of this head, whether it come out of the pockets of the people or of the Govermment, would be much more profitably emploved if, instead of paying the local Superintendents, it were applied to the training of Teachers, by means of Normal Schools, and in their instruction by means of a Journal of Education, and the Public Libraries to be established in each Municipality. as well as by means of travelizng woriting masters,-and also to the proper remuneration of the teachers, more especially of those who are placed at the head of model or superior schools."
Now, with respect to, and considering the sinister bearing of parts of the above quotation, we feel ourselves justified in hinting to Dr: M. that as far as Upper Canada is concerned, "the means" alluded to by him, are there, not only clearly defined, but actually realized; and that, therefore, Lower Canada has only, "to do likewise ;" that the whole of the cvidence adduced by us-and we could marshal much more-in favour of County Superintendents, goes to prove that such " means" cannot be more eligibly or profitably employed than in paying these valuable local inspectors; and that, if, instead of continuing to fist in troubled waters, the worthy Dr. had left the discussion of debateable points in the Lower Canada Education Law to the wretched demagogues whom he so justly condemns and despises, and struggled even harder with " the powers that be," in fayour of a few essential and indubitable improvements in the Act, he might happily, have, cre this, not only sucreeded in establishing a Central Normal Schoo!, and District or County and Model Schools, combined with a Provincial Board of Education, but, like his energetic brother Superintendent in the West, been, ere this, actively engaged in superintending a "Monthly Journal," and giving those "Lectures on Education" in the different districts, which he has for so many years been regarding as so very desirable. Let this much be accomplished, and that great spur to the diffusion of use. ful knowledge, the establishment of Township Librar. ies," will sooner or later follow:-and then, itideed, all that would remain to be desired, would be the proposed wonder-working engines-itinerating writing masters! But, we humbly trust, that these novel "flourishing" adjuncts to our Common School Sysfem will continue to be dispensed with, till an Act
of Parliament shall clearly and expressly define that teachers in Lower Canada will be expected to be able to read,-but not to write!

Much more m:ght be extracted and commented on : but as we propose devoting as much of our remaining space as we can afford, to the very useful and interesting, as well as valuable contents of the Journal of Education, for Upper Canada, coupled with a few farther allusions to those two important desiderata, in Lower Canada,-the institution of a Provincial Board of Education, coupled with the organization of Nomal and Model Schools, and the imperative necessity of making far more substantial emolumentary provision for teachers throughout the Province at large, to encourage a truly competent and respectable class of individuals to engage in that arduous and (ought to be) honourable profession;-we shall, for the present, only observe, that Dr. M., after getting through the ten conflicting rival systems, proceeds to the still longer, though less formidable, array of his 29 proposed amendments in the present act-already alluded to-followed by additional remarks thereon; and then, somewhat in inverse order, quotes from his official report for 1845.6 , various supplementary suggestions "on the subject of legislation for public instruction, (the state of things being now in every respect preciscly the same as it then was,")embracing county academies, normal schools, a deaf and dumb schonl, uniformity of school books, elementary schools for agriculture, and, hough last, not least, a Journal of Education:-all, as we have admitted, doubtlessly desirable and important,-but not expected to be so often recurred to,-unless to remind our Legis. lators of their perseiering inattention 10 such proper and well weighed suggestions by a zealous and anxious friend of the people, and conscientions responsible servant of the Government. In taking leave, however, of Dr. M., we cannot help advering to one of his many observations in favour of the existing Law,-in one part of which we cordially concur,-while in the other, we do not recognise the usual calm good sense, due apprcciation of facts, or dispassionate language which generally characterise the worthy Dr.'s writings. We allude to the close of the following rather extraordinary passages in p. 89, 90,-the italics in which, are, of course, our own:
"It is not surprising that men shmend think that some other system of public instruction would bave been better adapted to the wants of the penple of Lower Canada and to the peculiar circumstances in which they are placed, or hat the preseat law is iniperfect and needs nmendment; lor it is difficult, not to say impussible, for all the friends of popular education to be exactly of one mind upon a subjicct of commen merest, and of such vital importance to all as the subject of public instruction;-but to say that the lay works well nowhicre, that here is mot under its operation one good scliool, and that "if the Mon.Gogl came again among us, we should not have a singie grued seluol to offer him; these are mere assertions which must surprise and astonish cevery one, bold and hazardous allegations, which can never mect with general assent, beranse to the perstonal knowledge of every ono they are unfounded. and absintely enntrary th the real facts- I say and I say it with a fecling of satisfaction mingled with pride, and because I know it to be trum, thathe present law works gencrally well, and better than any of the preceding laws bave done; so that if Clrist should come aguin zisiblhy into the world as a child, he might in Lower Canada select one good school from gmong a thousped such, in which the teaching ond disciplime are
perfectly in accordance with the moral and intellectual wants of humanity."

How far such language is either advisable or appropriate, we leave to others to decide.

It affords us ro small relief to turn fiom the foregoing discordant view of the workings of our Educational system, to a subject most intimately connected with its success, on which there will be little difference of feel-ing-namely the profier of a hearty welcome, and wishes for a long literary life to the useful and interesting, as well as valuable, Periodical named at the head of this article,-as likely to do more real good to the cause of Education,

> " IIo!ding as 'twere the mirror up to nature,"
by the progressive registry of convincing facts, than all the theoretical writings in the world.

Let us then commence by,'at once, observing that what Dr. M. has, with the best inteintions been, year after year, wishing for, and writing about-namely, the establishment of a Journal of Education, his brother Superintendent in the West hall contrived to carry into successful practice, at his own pecuniary risk and per. sonal and mental labour, in January last, and has ever since, been not only furnishing the public monthly, with a choice miscellaneous mess of useful and instruetive matter on the subject of Education, as far as the general reader is concerned, but also conveying to municipal councils, teachers, trustees, and other officials, more immediately concerned, in the most convenient, and, as regards the uic, cheapest possible mode, every variety of intormation and explanation on whatever parts of the Law might be deemed obscure, contradictory, or ill understood.
Did our reaaining circumscribed space permit, we should be disposel to draw largely upon the many valuable original articles, as well as apposite extracts from public writers and documents, confirmatory of our own humble views on so important a subject, to be found interspersed throughout the eight numbers of the Journal now before us, but we are forced to forego that pleasure, and to content ourselves with referring to a few of the most prominent articles, and assuring our patriotic readers that a leisure reference to the work itself, will prove highly satisfactory, and well repay the trifling expense of $\$ 1$, per annum.* That, however, they may have something more than our mere word to encourage then, we beg to state that, with the appropriate introductory article in the January number will be found incorporated an instructive letter from the chief Superintendent to Wardens of Districts, on a variety of subjects requiring the attention of Municipal Councils-the hardships of schnol. Trustees, and that only true principle of thiversal. Education,-supporting schools according to property; together with an article on the system of schools for cities and incorporated

[^4]towns, embolying a circular from the wuperintendent to the heads of eity and town corporations. In that for February, is a letter to the Provincial Secretary, expounding and recommending the original draft of the present School Bill, published by special permiseion of the Gorernor General; and in that of March. a comparative view of thr powers of the Superintendents of schools in the United States and Canada. In the April number is given a reprint of an admirable article fiom the London Quarterly Journal of Education, on the excellent system of "Free Schools", in the New Eng. land States, but more particularly in that of Connecticut, which we would most earnestly recommend to the perusal of every patriotic Canadian, of whatever origin, as placing popular Education in its only true and proper light, opposed to the miserable ignis fatuus doctrines with which wicked demagngues would attempt to mislead a portion of our ignorant compatriots, whether among the proverbially "too confiding Habitans" on. the one hand, or the more self-relying Anglo-Saxon settlers on the other.* Nor would we pass by unnoticed in the' same number, the commencement of a series of interesting papers, (continued in subsequent numbers,) on Agricultural Education, hy H. Y. Hind, Esq., mathematical master, Normal School ; or an instructive article in the editorial department, on the system of $F$ ree Schools in cities and towns in the United States and Upper Canada, containing tables shewing the comparative rate of the cost of schools, and salaries of teachers in various cities and towns in the former. In that of May, will also be found a most gratifying account of the first Normal School Examination, giving a general view of the highly favourable notices by the whole of the Toronto press of that interesting ceremony, and of the appropiate addresses delivered on the occasion. In the Jone number, in addition to a portion of an able address delivered by the chief Superintendent before the Senate and Students of Victoria College, on the 2d of May, "On the obligulions of educated men,"-and a continuation of Mr. Hind's paper on "Agricultural Education," will be found in the editorial department, a strong ap. peai to the Canadian public in behalf of "The Journal" itself, from which we cannot refrain from making the following short extracts,-as not only deserving of serious public attention, but highly creditable to its talented and public spirited, yet in some quarters, much maligned conductor.
"Six numbers of the Journal of Education having now been issued, the public are sufficiently apprised of its character and objects; and it now remains for all friendly to those olyects to say, whether the undertaking shall entail a heavy pecuniary lossi, in addition to imposing much mental labour apon the conductors of it.'
"It is the first undertaking of the kind in Upper Canada, to: diffuse useful mental information on educational subjects. Tre: labours of the conductors of the Journal of Education is merely. voluntary and gratuitous. Every shilling of subscription which has been or may be received, has been and shall be expended to defray the mechanical expenses of the work. Those expenses very considerably exceed the amoant of subscriptions. The issu-

[^5]ing of each number inflicts a serious loss upon the editors in addition to their personal iabours. At whatever sacrifices, however, and under any circumstances, their engagements with the public will be honourably fulifled in continung the publication through the year. At the elise of the volume a copious alphabetical index to the subjects of it will be furnished, so that it may serve as a convenient manual of references on all the principal subjects of popular education, as applicable both to Canada and other coun. tries."
The Rev. Editor, then very appropriately proceeds to shew that of the numerous Educational periodicals which have appeared in the neighbouring States, scarcely one has survived for any considerable time, that has not received more or less legislative aid; and, to prove how difficult it is to sustain an Educutional Journal, and the consequent necessity of extensive and active co-operation to be able to do so, he gives a summary account of the various School Journals which have from time to tine been issued in the neighbouring States, from which it would appear, that out of 14 Educational periodicals set on foot in various parts of the Union since 1831 only three now survive,-and that these, to their honour be it stated, are published in New England and NewYork; viz., the Common School Journal of Massachusetts, commenced in 1838, the New-York District School Journal, commenced in 1S42, and the Syracuse Teacher's Advocate (issued weekly), commenced in 1845. It is, however, due to that noble pioneer of the cause of knowledge, the American Journal of Education of Boston, to state that, though now no more, it led the way to them all, -it having been commenced so far back as 1820, and merged in the Annals of Education and Instruction in 1831,-in which form it survived till 1839, when it finally gave place to the existing
Common School Journal.
May it be long before we shall have to regret the demise of the Upper Canada Journal of Education; and may it not be long before we shall be able to congratulate the Lower Province on the appearance of a similar periodical thre also. But we are, nevertheless, still disposed to think that the sooner two distinct and separate Educational Laws for the two Provinces are con. sidered unnecessary, inconvenient, and even mischierous, the better; and that, in that case, one well conducted Journal, under the joint direction of the two Superintendents would suffice; -and if so, we see no reason why the mass of useful and instructive information it would contain, should not consist of the same articles in French and English, in opposite columns, like the old Lower Canada Acts of Parliament,-the strange and unaccoutable example of the Lower Canada Agricultural Journal to the contrary notwithstanding.*

[^6]We would, however, at the same time, take the liberty of suggesting one or two improvements in the Upper Canada Journal, as not only tikely to prolong its existence, but to add to its general interest, without diminishing its usefulness as an Educational Miscellany, viz., that instead of being is:ued monthy, it should appear Quarterly, and that instead of its being so exelusively devoted to what the general reader may be disposed to regard as dry scinoon subjects, the bill of fare should be varied by the insertion in each number of one or more select historical or biographical articles, relating more particularly to individuals of humble origin who have risen to eminence in life,-whether as statesmen, philosophers, or men of letters-in the pulpit, or sit the bar,-as warriors, merchants, or agriculturists; all equally tending to give a spur to a genial spirit of emulation among the rising generation, as well as to inspire with continued perseverance those who have already entered upon the busy stage of adult life.

But to proceed with the remaining numbers of the Journal. In that of July, under the editorial head will be found some very pertinent observations on the subject of Teacher's Conventions or Institutes, which, in the neighbouring States, have been found very useful sub-, stitutes for Normal Schools, but which in Canada, if properly conducted, will happily prove only adjuncts to the invaluable Normal Institution already there in full operation. But we trust that even they will long continue among the things "to be," if likely to cmulate the stiange example of certain wise pedagogues of the Gore District, who no sooner found themselves in dignified being as a "Tcacher's Association" than they, in the plenitude of their reforming wisdom, set about voting the existing School Act a miserable abortion, the chief Superintendent an ignoramus and a bore, and his labours, past, present, and prospective, utterly worth!ess. Far different, however, will be found the spirit pervading another article descriptive of the creditable feelings and doings of the inhabitants of London : and in the August number, besides other interesting matter, will be found a similar opportune contrast to the late" extinguisher" proceedings of the ultra-wary worshipful fathers of the great city of Toronto, in the far more considerate, if not more enlightened conduct of the corporate authorities of the little town of Niagara.*
on accidentally referring to the French copy, instrad of its being alter ct inem, except in language, we found it differ toto colo in its cor,tents, and, in fact, having nothing in enmmon, save the generel subject, and the zoord'ngriculture?: What can be the cause let wiser heads than ours determine.

* T, enable nur readers to comprehend the application of the above remark, it is necessary to mention, that in Jaly last a few mermbers of a Teachers Association, in the Gore District, taking it into their heads to be displeased with the Chier Superintendent, met at Dundar, and in defance of every rule of Respoinsille $G_{r}$. vernment, as well as official subndination, chore to vent their epleen a inseries of resolutions, declaring,-1st, The present School Bill not to be adapted to the state of the country, and inefficient from, its unwieldy and cumbrous machinery. (thongh containing less than one-fourth of that of the neighbouring State of New York.Ex. gr. "The School Bill of New York contains 200 sections;" that of Upper Canada only $45!$ ) 2 d , That this has arisen from the framing of the Act having been entrusted to a party (the Chicf Superintendent) possessing no previous experience, \&c., (though his wholo previous life had beensdevoted, either directly

Having so far done justice to this well conducted, useful and instructive Periodical, we would heartily wish it continued "God speed;" and cannot, therefore, refrain from again earnestly inviting every patriotic friend of education to contribute his annual mite towards its permanent success; and we do so the more anxiously because we feel conscious,-julging from the fate of similar journals in other countries,-that without very general patronage, it must either gradually pine away, and, ere long, become extinct, or entail a heavy pecuniary loss on its talented, and public spirited conductor, -or, as elsewhere, be main?y dependent on the State purse for support.*

It being now full time to bring our desultory remarks io a close, we would willingly proceed to the redemption of our pledge, of recurring to those two prominent desiderata. - the immediate institution, in Lower Canada, of a Provincial Board of Education, combined with the establishment of Normal and Model Schools, and the extension of far greater pecuniary encouragement to well qualified teachers throughout the Province at large: but in addition to our alloted space being already exhausted, we are constrained to avow that there is one other all-important, because fundamental improvement, to which we feel bound to devote a few words, in preference. We allude to the great impolicy, if not folly, of continuing to have separate and distinct Education
or indirectly, to the promotion of education!) and yet,-3d, That such an enactment is not attainable without the assistanec of individuals having a theoretical and practical cxperimental knowledge of the business of Education ! \&c. 4th, That they, therefore. consi. dered it their duty to represent their views on so very important a subject, and to suggest that a committee should be appointed to examine into the state of Education. 5 :h, (in which we most heartily coincide) That a fostering government cannot reusonably be expected to succeed in so Harculean a task, unless assured by the hearty co.operation of the people! And 6 th and lastly; but not numbered or avnoed, though it ought to have ranked first. as evidently the primum mobile of their whole procredings,- that the District Superintendent ought not to be subordinate to his Chief, but set him and the School Law at defiance, and decide on ail matters occurring in his district according to his wisdom, spicial party feeling, and discretion -- So muct, for the wise men of "Gnshen." But our readers will not, perhaps, be much surprised at this, when they are remnded that it was in the same District that (as noticed in our former Remarks) it was suggested that in the selection of teachers, a proference should be given to persons whose physical constitutions and decaying energies rendered them unfit fur other pursuils !

With regard to the contrast between the grood perple of To. ronto and Niagara, it is sufficient to state, that it wruld appear that in April or May last, the wirshipful City Fithess of the former, slumbling upon a small blauder or misarrungement in the technical language of the new Act, placing the humbler echool Trustces in rather too authoritative a position in the carrying out of the levying of the schocl assessment on the free school principle, chose to shut up the whole of the common schools in the city, rather than compromise one atom of their civic dignity, or undertake one ounce of doubtful responsibility, even thoigh in behalf of the hest interests of the great hady of the inhabitants. Whereas, the humbler corporation of Niagara, like the warthy folks in the London District, regarding the great blessing placed within their reach as tro precious to be trifed with,-instead of shutting up their schols, on the same pretext, nobly privided for the education of all the children of the tuwn; and, to promote the exections of both teachers and pupile, opened ther Town-hall for a public gencral examination, and distribution of prizes to the most meriturious scholars of the different schools!
*See addendum at the end of this article.

Laivs fio each of the two great sections of the Province, and the consequent evident expediency of our Legislature retracing their steps, and setting about the laying of the foundation of whatever permanent Scholastic System may be proposed, in the wary conciliatory spirit of the first Union School Bill of 1841, by at once framing one well digested general Education Law, adapted to the wants of the inbabitants of both divisions of the Province, and having it well understood, that, should Lower Canada not yet be considered quite prepared to adopt every part of that law, whatever special substitutes may be there found advisable, are to be regarded as merely temporary, and liable to be hereafter dispensed with, as soon as the pecple shall be disposed to adopt the liberal "self-governing" Municipal Institutions so long placed at their option.

Should this politic course be adopted, we are persuaded that no better model of a general scliool law can be adopted than, with a few modifications and improvements, the existing Upper Canada Bill ; and then the only alterations necessary in the Lower Province, in addrtion to the introduction of a Central Board of Education, and Normal and Model Schools, would be the appointment of County Superintendents, and the foundation of respectable County Grammar Schools, wherever necessary,* and that until the establishment of Municipal Councils, there shall be County Boards of educated School Commissioners, (composed of a Representative from each of its Townships, deputed by their fellow Commissioners,) with which shall rest the power of regulating all assessments for school purposes, as now possessed by Municipal Councils in the sister Province. Kceping these leading points in view, the Legisiature may be assured of one great fact, that the nearer the revised Education Law approaches the "Free School System," in its purest form, $\dagger$-the less will be the pe-

* The above being the first allusion to Grammar Schools in this Article, we think it right to note, that having entered rather fully into the merits of that imbortant branch of our subject in our former ". Remurks," we had intentionally abstained from recurring to it; but the opportmity having offered we cannot refrain from rettrating our carnest hope, that any revision of the long neglected Giranmar School systron of Upper Canada, will be dis: cussed by Parliament, atogether independent of and prior to, the introduction of that hateful spetarian and political party bone of contention,-the Uuiversily Question; and that, whatever other improvements may be contemplated, these seminarics will be extricated from their present anomious iselated management, by distinet and separate Trustecs, and placed under the direct joint supervision of the Chicf Superintendent and the Board of Education; and their masters subjected to a regnlar Normal School training, \&ce, the same as the rest of our Educational system.

As sincere practical Reformers, we are also not without hope that a ecarching investigation into tine jast results of the defec. tive Grammar Sch ol arrangements, will lead to a far more judicious and beneficial onlay of the funds devoted to the support of these seminaries than has ofen been the case in sonie parts of the country, where, as hitherto conductcd, the District Grainmar Schonl has, as such, sometimes exhibited an empity farce; and the $£ 100$ annually granted to the Tcachers been, thereforc, a downright waste of the public moncy.

+ The following excellent sketch of the Sentish system is given in the Report of a Select Committec of the Hoise of Assembly of Nova Scotia, in 1836. Se Young, on Col. Lit., p. 153 :-
"The plan of these schools is casily sketched and detailed. In every parish one of them must be of riecessity founded: and besides the house or apatiment, for teaching, a suitable dwelling under the same roof, or a distinet dwelling, must be provided for
cuniary sacrifice by the wealthy as well as by the humbler classes, and the greater will be the general blessing conferred upon a free and independent spirited people; and that, in this respect, no molel can, with a few modifications, be more worthy of adoption than the liberal example set by the New England States.*

Deeply impressed with this conviction, we are content to allow our, perhaps crude, yet heartfelt opinions, to go forth to the public in company with the able writer in the British Journal, alreaty alluded to, who has so clearly demonstrated that, under the auspiees of such an alma mater, among a population (in New England) of two millions of souls, not less than from 10,000 to 12,000 schonls are open cuery year:-or, on an average, one school for every 100 souls;-all arising from the operation of a liberal srstem of Free Schools, directed and promoted by Law, and founded on a tax on property.

Let us then, at once, close our protracted remarks, in the appropriate language of the judicious writer referred to, and confidently leave the rest,-untrammelled by paltry party politics,- to the dispassionate good common sense of a patriotic Legislature, and a discerning British hearted public, such as, in spite of all our party feuls, we trust, will ever be found the great body of the people of highly favoured Canada.

[^7]" Dut the intraductom of such a system, - - must, in order ts produce all its gond effects, be gradual, as mast any change intended to reach and aflect the character of a whole people; for such a change canme be brought about by the enactment of a stature, or the provising of a fund. If can be brought about only by grudually interesting tue whoie porulation inart ; by mak. ing cuch fourn, purh village, sach neighourhond assist in it, coniritute to n, and supcrintend and trath it, as a pritate inirrest of their own, whinch they will rot trust out of their oun hands. They must frel, too, that it is not a charity, or a favour. grante: to them by others, or semt doun from their ancesters, int a right, furchuset and rati for my rhemselves, to which they have as dear a ciam, as they have to the protection of the lives, or the offers of religith. This is, of conrse, tise work of time, of habit, and of eaperience. The statute book can no more do it, thar it can compel a man to manare his own business skil. fally, or recmulate his honsehold with diseretion. It is, therefore, only where popatar deduation that heen the anxious care of the people, watil it has become to them as a personal interest, or a domestic want, that we eath expect frem it the wide practical results in the chatracter and condition of a country, which it is, at last, able to produce."
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## A D DENDVM.

As the great length of our Remarts precluded their appearance in a single number of this Journal, we avail ourselves of the opportunity afforded by the postpone. ment of the above coacluding portion, to add, that in the interval we have had the pleasure of receiving the numbers of the Journal of Education for September and October; but too late to avail ourselves of the many usefrol and instrictive articics with which they abound. We cannot, however, refrain from directing the attention of our readers to the former, as containing an able lecture, by the chief Superintendent, on "the importance of Education to an agricultural people;" a short editorial notice of the contents of the fortheoming "Report of the Normal, Model and Common Schools, in Upper Canada. for 1847:" and some interesting extracts of the "14th Report of the Commissioners of $\mathcal{N}$ ational Education in Irelond "" and to that for October, as giving another lecture by the Superintendent on "the importance of Education to a manufacturing and free people." It is also but justice to add, with regard to the announced School Report for Upper Canada, compared with that for the Lower Province, that it is described as conlaining 270 manuscript pages, of which 240 appear to be devoted to matter directly connected with the actual working of the system during the year, including 130 pages of appropriate statistical tables,-(which, if published carlier, would, doubtless, have thrown much additional light upon our twilight path;) and that the rest is devoted to an appendix, containing copies of various instructive or explanatory circular letters, and rules and regulations for the better guidance of all connected with the work. ing of our Educational System.

We are also happy to perceive from the same Number, that the appeal of the worthy Editor has not proved in vain,-many districts of Upper Canada having come liberally forwasd to the support of the Work; so that we may now confidently look forward to its useful existence being proionged for, at least, another year.

Having so far done a well merited act of justice in one quarter, we trust we may be pardoned for ventuing on a few valedictory words in our own behalf; and these are, to express an anxious hope, that whatever
may be the defects of our humble advocacy of the nohle cause espoused by us,-our Remarks, however desultory, will, at such a juncture, not be found altogether undeserving of favourable attention by the public, and more especially by the members of our Legislature,-as having emanated from a single-hearted, disinterested, patriotic source, alike independent of sectarian or political party motives on the one hand, and unbiassed by private personal feeling on the other ; but guided solely, as far as the writer can be a judge, ty the honest, feariess endeavour "Naught to extenuate, or set down aught in malice." Proudiy conscious of this impartiai moving principle, we are content to bid our readers farewell, in the same words as formed the concluding paragrapit of our first appeal to the public in behalf of Educational reform. "Should our efforts be crowned with the success, which so great and excellent an object descrves, we shall ever look back with satisfaction, at having humbly led the way in so good a cause. Should we, after all, be destined to fail, we shall still indulge the hope that we have not struggled altogether in vain; and, even at the 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 excidit ausis."

Art. LXVIIT.-Medical Chemistry, for the use of Students and the Profession, being a Manual of the Science, with its application to Toxicology, Physiology, Therapeutics, Hygiene, \&c. By D. P. Gardner, M.D. Philadelphia : Lea \& Blanchard, 1848. Svo., pp. 396.
The character, plan, and objects of this work are sufficiently explained by its title. It owes its origin to the difficulties which the author has met with as a public teacher, from the want of a text-book adapted to the use of medical students. The recent researches in vital chemistry with which the German and French physiological chemists have enriched the science, were scarcely to be found embodied in a condensed form, accessible to this class of students, while their bearing is so important upon physiology and therapeutics, that they should form a part of the education of every medical man. Feeling this, and feeling, also, that a treatise on medical chemistry should be one practical, rather than elevated to the abstract portions of the science, and should give the therapeutical rather than the hypothetical relations of bodies, the author has been led to the preparation of the above mentioned book.

In many respects it is a work well calculated for the end; the relations of light, heat, and electricity, to the vital structure, are pointed out in a very succinct manner; we would hope that the consideration of these may lead the minds of the profession to re-enquiry. This fact they seem too often to overlook, that
it is possible to operate upon the vital principle by other than ponderable material agencies, as if the body were only a laboratory in which we were to mix various salts and acid́s, forgetting that around all, and. superior to all, there is a great unknown power which laughs at our laws of composition and decomposition, and directly inverts the strongest affinities.

The descriptions of mineral combinations, although brief, are sufficient for general purposes, and much useful and important matter is introduced which per. tains to toxicology, the antidotes and proper means of detecting poisons, particularly with reference to medi-co-legal investigations. A gross error, however, appears in treating of the tests for sulphuric acid in cases of suspected poisoning; he directs to distil the organic tissues with water, and treat the distillate with a baryta salt.

As to the theories of the science, it is to be wished, that in his praisc-worthy desire to exclude whatever was superfluous, to had set aside some of those antiquated notions, which, under the head of illustrations of "the law of multiple proportions," have disfigured in common with this, nearly all our text-bnoks for the last half-century. Unfortunately, however, Dr. Gardner, familiar as he appears to be with the recent progress of chemico-physiology, has apparently neglected to keep pace with the rapid advances in chemistry proper, and particularly in organic chemistry, during the same time. It would, indeed, be a tedious and an ungrateful tasik to point out the number of mistakes and antiquated ideas which have found their way into this, in many regards, vduable book; for instance, Dumas' doctrine of mechanical types, which have really no foundatior in nature, except as an accidentai consequence of that of chemical types; while the recent admirable researches of Laurent in the composition of the azotized bodies, and the laws which he and Gerhardt have shown to govern the constitution of all organic substances are passed over unnoticed. To these we must add many errors in the descriptions of the properties and composition of many organic compounds, such as the fats, alkaloids, and oils ; errors that have been corrected by several researches which our author seems to have overlooked.

The chemistry of the fluids of the body and of the vital processes is treated of in a somewhat extended manner, and the late researches of Liebig and Mulder are freely quoted. As has already been remarked, these portions of the work show a familiarity with the subject, which is a guarantee for the value and author: ity of the statements: We should, however, have wished something more definite with regard to urine,
particularly as to the character of hippusic acid, and its relation to benzoic and uric acids, and considered with refer. ice to calculi.
While we have thus pointed out the errors and deficiencies of the worl, we would not fail to acknowledge its merits, and would only hope that our bints may not he lost upon any others who may attempt the preparation of a similar book.

Art. LXIX-On Bandaging, and other Operations of 'Minor Surgery. By F.W. Sargent, M.D. Philadelphia: Lea \& Blanchard. 1848. Svo., pp. 379.
We are perfectly persuaded that hundreds of young men are admitted to practice, who, however well versed they may be in the theory and practice of surgery, as far as relates to the performance of the major operations, are yet profoundly ignorant of a vast number of the minor operations, and in which one of ${ }^{f}$ the chief excellencies of a surgeon consists. If the student seeks for information on these points in systematic lectures on surgery, he will scarcely find them alluded to at all ; and, on numerous points, the generally received standard works on this branch are equally silent: or, if noticed, the subjects are so lighty treated of, as to afford but a very superficial information; and unless the student has served as a dresser at an hospital, and taken an active practical part in such matters, either there or in the office of his preceptor, he enters upon his professional life ignorant of practical details, in which his skill as a sugeon is, in all probability, most likely to be first tested. To the student, then, the work before us is eminently valuable, and to the professional beginner it is also not without its great adrantage; for, however much we may admire the dexterity of a surgeon in a neatly performed amputation, or other operation, yet his work is, at best, but imperfectly conducted, and it detracts from his merit, if the after dressing be slovenly executed, or injudiciously managed.
There are few works in the English language in which this sulject is treated more lucidly or concisely. The author considers his subject under five heads. The first treats of the instruments and materials in ordinary use by the surgeon : the second treats of bandages, their varieties, their regional appiication, and their objects: the third treats of fractures, with the necessary apparatus for their management; it enters into the particulars of each kind of fracture, detailing its specific treatment: the fourth, of dislocations, on the mechanical means for their reduction, and their after treatment; and the fifth relates to the eperations of
bleeding, counter-irritation, catheterism, eneriata, \&c. \&c., with remarks on answetic agents. The work is illuztrated by one hundred and twenty-seven wood cuts, which are very neatly arecuted.

This puilication should have reception in the library of every practitioner, who will find in it valuable information in the time of need, and we think that Dr. Sargent has rendered the profession a service by its publication.

Art. LXX-A Dispensatory or Commentary on the Pharmacopeias of Great Britain and the United States, comprising the Natural History, Description, Chemistry, Pharmacy, Actions, Uses, and Doses of the Articles of the Materia Mcdica. By Robert Christison, M. D., V.P.R.S.E., Sv. Second Edition, revised and improved, with a Supplement, containing the most important new Renedies, with copious additions, and two hundred and tharteen illustrations. By R. Eglesfeld Griffiti, M.D. Philadelphia : Lea \& Blanchard. 1S48. Royal 8vo., pp. 1008.
The last edition of Dr. Duncan's new Edinburgh Dispensatory was published in 1826; and Dr. Chris. tison's Dispensatory was first brought to the notice of the profession in 1842; a new edition has been published this year, bringing its contents up to the existing state of our knowledge of the materia me. dica. The work before us is an American edition, edited by Dr. Griffith, incorporating with the pharmacopeias of Creat Britais. hat of the United States; and, to practitioners in this l'rovince and the United States, thus materially adding to its value. The American editor has added a supplement, containing the most important of the new remedies employed in medicine since 1841 ; among which we notice the Bebeerina, Donovan's solution, camnabis, chloroform, matico, cod liver oil, etc. etc. This addition considerably enhances the value of the publication. The original work, by Dr. Christison, is so favorably known to the profession, as not to require at our hands any specia! notice; and the additions made by Dr. Griffith have added most materially to its value. The work abounds with observations of the most valuable character, both to the apothecary and the physician.

## PRACTICE OF MEDICINE AND PATHOLOGY.

[^8]In all cases whero boiling water is laken, or attempted to have been taken inte the mouth, the danger at all times is imminent; for although the little patients seem to suffer comparatively very little for the first two hours, still symptorns of grave importance set in sooner or later, which, if not combated by appropriate treatment. will either kill the patient or call for the operation of tracheotomy. The operation is, therefore, I think, imperatively called for, when the usual remedies, such as emetics, leeches, and the application of heat to the surface, \&c., fatil in allaying the urgent symptoms. But when the breathing becomes stridulous and croupy, or amounting to a mere pant, from spasm of the glotis, the puise quick and small, the temperature nf the body diminished, the head drawn back, face congested. ey malf open, inclination to coma, and difficult deglutitian, I aiminh, on the first accession of these symptoms, at once be inetow to epurate; but when these have lasted a sufficient length of time to cause complete coma, or if bronchitis or laryngitis has set in, then, I thonk, it will be found useless; for when patents under such eir. cumstances die after operation, provided it is not produced by the shock inflicted on the nervous system, it is from the aceession of bronchitis, largngitis, of pueumonia; consequently, if any of these exist before we operate, we can entertain but sinall hopes of recoverv.

The following cautions, Dr. J. thinks should be observed in cases where the operation is resorted to:

1st. The operatnr should bear in mind that his cutanenus incision be in the $m$ odian line, otherwise the opening into the trachea will not correspond to it, a valvular opening being the result.

2d. Great caution is required in avoiding the throid veins, which, as well as the widdto thyroid artery, constanty eacroach on the median line.

3d. Great caution is required that the incision be not carried too low in the neek, therehy opening the fascia that is attashed to the sternum, which helps to close the upper npening of the thorax, like a lesser diaphragm, whereby there is not only danger of woundmg the vena imominata, but also gicat annoyance may be experienced in the cubsequent steps of the operation, by the elevation and depression of the thymus gland.
4th. We should never open the trachea till we are certain that we have laid open the deep fascia that covers it, or we will surely have a valvular opening.
5th. The operator should be prepared, in case of the supervention of spasm, when the trachea is seized by the hook, to cut the piece out rapidly; or should the patient not breathe instantly after this has been done, the surgeon must lose no time in passing a gum elastic catheter into the trachea and infating the lungs.
6 6h. We should never enlarge the wound in the soft parts after the trachea has been opened, lest a flow of blood should pass into it. and cause the instant death of the patient.

7th. Blood may pass into the trachea the instant the opening is made into it, thereby producing violent cough, or even to such an amount as to asphyxiate the pationt. In either case, the elastic catheter must be had recourse to, and life may be saved.
8th. Should a lymphatic giand present itself along the course of the incision, and tend to obstruct the passage of air into the trachea, it may be'removed without danger.-Neo York Journal of Medicine.

Case of Hydrophobia, treated by Chloroform-By II. Hants. horne, A. D.-Thomas Rogers, aged between tivelve and thirteen years, was bitten by a strange dog on the 27th of 6th month, while attempting to prevent him from worrying some goesc. The same dog, within a fow hours, bit a young man named M'C-, without the slightest provocation. After running hither and thither, quarreling incessantly with other dogs about town, he was pursued by a crowd and killed in the sirect. $M$ '. had the wounded part mmedlately excised. On the 29 th I say T. Fingers' wound, which was upon the wrist of the left arm, consisting of one deep tooth puncture, which had bled largely, and a scratch, which had searcely bled at all. I urged upon his father the propricty of excision, even at that time, the second day after the injury; but he obstinately refused consent. He then proposed apilying a blister, which 1 encouraged, and leit the case.

About three weeks after, I called to inquire after him.
wounds had healed perfcetly; the buy was in cxcelien! health and spirits.
On the 17 th of 8 th month, I was sent for, and Dr. Spackman was also called. We were told that he had been sick for several days; had been drooping on Saturday; on Sunday had pains in his hack. then in his sides, then his arms and loge, and his head -flying from part to part; had fever on Sunday night. Then, or on Munday. he asked for a drink; but when it was brought, refused it. His monher threateued a whipping, and he swallowed some, hough with difficulty, having "a catch in his throat." This difficulty was now observed repeatedly, and his mother, "thinking it was a caper," scolded him for it. He burst out crying, atsd said, "Mother, I can't helpit." He had burning fever on Monday. The next day, in fanning away the fles, they noticed that he gasped or sobhed spasmodically when the air was thas moved over his face. He complained of pain in the left arm, above the elbow, and his mother fimand a "kernel" in the axilia. Now the dog-bite was remembered, and a quack, agent for one "Dr. Stoy," was sent for. He brought his "certain cure" decoction, and it was adminstered. On Wednesday night the boy had raging delirium ; he was never entirely rational, I gathered, since Tuesday, if not from a still earlier time. I should bave mentioned that on Sundiy he took six grains of calomel, followed by castor oil, which uperated will.
We found him delirious though not violent; with a feversh pulse and hat skin, though covered with sweat; decidedly salivated, and some swelling of the sofi parts abont the jaw, and a tongue covered with a ycllowish brown fur. His state was ono of stupidity, with open and watery, though heavy eyes, somewhat hike the expression of the exeited stage of intoxication. The most striking type, however. of his physiognomy, was that of a kitteu which i had seen prisoned with a decuetion of kalmia.
Unwilling yet to belicve it hydrophubia, I supposed the exist. ence of remitient fever, with salivation by medicine. I offered him cold water in a teaspoon, and he swallowed it without noticeable difficulty, whilst lying on his back. Dr. Spackman had seen hydropho:ia beforc. IIe fanned the boy with his hat, and the sobbing sprasm was produced. This exbited his suspicions, from its similarity to the symptom he had observed in two other casce.
As he was costive for some days, an anema and a dose of cream of tartar and jalap were directed in the afternoon. His father now sat him up in bed, and offered him a bowl of water. IIe began to gasp at once, and after two or thrce forced swallows, gave it up, and sank back convulsively on the pillow. He can still drink with less dificulty from a sponn and on his back We see, therefore, no urgent symptoms bat those of fever. Spiritus mindieri was prescribed, the hair ent short," and the room aired. a voiding an immediate draught on him, which would bring on the spasmodic breathing at onee.

In the evening, rather more actively delinions. At midnight he complaind to me pain in his left arm, from the clbow to the arm-pit, " Hike cramp." He spoke of this two or three times afterwards, in the course of his illness, but it did not seem to be permanently predominant. The pulse increases in rapidity, and loses in force, The next morning there was no important change. The bowel; not being acted on, a dose of salta was given. I also had a cataplasm of tobaceo put around his throat, and left there all day.

The principal peculiarity, considering it as hydrophobin, was that the symptoms were not mortally pressing, after an illness of four or five days. But it happens that nearly all the detailed cases have been in adults. Might not age modify the duration of the discase, as youth appears to have more vital resistance than mature age ; fot instance, under surgical injuries?

A dose of castor oil was required before defecation was produeed. The tohaceo did not make him sick. In the afternoon he was more talkative. The spasns, as before, o ndrinking or being fanned. A piece of lint, wet with strongest tinct, rad. aconit. and chloroform. was put over the throat, covered with oiled silk. Mr. Nunneley has made a plansible suggestion of the locally anmsthetic effects of this latter agent, (See Med. Neus, Aum. 1817.) I also began the internal use of chloroform in mu. cilage, my impression, from other trials, being that it simply re. duces the vividuess and frice of all sensation. Half a dozen leeches were ordered hehind each ear, to relieve the turgescence indicated by the daris flush of the face, throbbing, full temporals; and delirium.

At eight in the evening, I found he bad been worse from the time of the leeching, which had been only in part effected, on account of his struggles. He now fights, curses, and threatens us constantly; is raging mid. Once be deourd he would bite me ; but mostly throwing stones, using his nails-which he did once on one of his attendants-and setting his dog on ue, were his fancied modes of combat. And it is a popular error to stppose that bitiug is a pecuiliar propensity in the discase : angry, furious delirium is present, but it shews itself in the use of neans and weapons customary and natural to the individual. His father persuaded him several times to try to drink. We succeeded in getting swallowed, with great difficulty, a fow tablespoonfuls of chloroform mixture, and then the spasm increased to such a painful extent, that it was impossible to get him to drink at all. Not only the muscles of respiration, including the diaphragm, bat all the muscles of the neck were spasmodically contracted, throwing the head back for the moment as in tetanus:' but, unlike ietnons, in the repidity instantly disappearing when at rest. Frum the beginning to the end of the case there bas been nothing wheh the shallowest observer could mistake for tetanus. He could at any time open his mouth wide and put out the tongue, and move his neek when not attomptirg to drink, or any limb or other part of the body, as readily as in hraith.
I now tried the inhalation of ether, The coldness caused by its evaporation near his lip, started the spasm every time it wis freshly applied; and this finally caused him to resist it so obsire. perously, that I was forced to give it up. He had, however, been considerably tranquilized by it. Dr. R. P. Harris was present this evening. The acomte and chloroform were renewed to his throat, and I left him, expecting to find hin worse the next time.
I went at eleven o'clock, with a y brother, Dr. E. Hartshorne, prepared to attempt the introduction of a stumach.tube, as recommended from the experience of my father, to preserve a means of eupplying liguid and nourishnent. We found him, however, asleep, and he had bern so alnost since the last visit; but he could be easily roused. Gruel was offiered him in a sponn, which at once excited the spasms and furious resistance. Fanning also produced the usual effect. But he had the appearance of being to some extent narcotized. An cnema of tinct. upii 3 ss was ordered in case a return of excitement.
He remained tranquil all night. At seven nest morning he appeared decidedly better; pulse softer and less rapid, skin warm, now also dry, which has not been the case before. He is tract. able, thnogh wandering; and can drink gruel. I am reminded of the "deceptive remissions,". uccurring in cases described by authors.
He became worse again at ten o'clock; not so much with violence as suffering. "It was horrors this time," his nurses said. I asked him it ho was sleepy; "no, but I'm frightened; those bullocks are chasing ne!! He cried bitterly, and had almost constiantly the most distrcssed contortion of the features possible. The pulse is more frequent than last night. The pupil, now and at all stages of the disease, even to the last day, was natural in its contraction and dilatation. He can swallow small quantities at a time, to day; grael, water and chloroform misture were given from time to time. Two injections of 3 ss laudanum each were used within two hours. No effict was produced by them, and at four o'clock he was still extremely restless, suffering terrors of apprehension. He cannut now be made to swallow. I began theo the inhalation of chloroform, from a bandkerchief. He was alnost instantly quieted. In a few minutes the lips became slighty blue, and respiration lessened in force; it was then wihdrawn, and colour returned.' By repeating this whenever the struggling was renewed, I kept him under its influcnec, most of the time sleeping quietly, for about two hours. The same treatment was continued by an attendant, and another injection of $3 i$ laudanum was used in the return of uncasincss. He swallows no better, however, and lighs spasmodically every few minules. But it is a grcat end gained to be able thus to control his horrors and violence; if any agency promised hope of cure, it must be one which produces such mitigation and relief, not afforded, 1 believe, by any other remedial means. The tinct. rad. aconit. was again renewed to his throat. In the evening he appeared still to be under narcutic influence; but the sighing is perhaps more frequent. Pulse 160. Able to awailow very little indeed. This state continued till near three the next morning, when he became wakeful, but tranquil and more rational than yesterday. Now, however, commenced a rattling in
his throat, from the accumulation of thick ropy mucus in the fauces and trachen, which threatens to check respiration. Finding the pulse still capable, and that the deglutition was improved, for the time, I obiained the presence of Dr. J. W. Wallace, Dr. Spackmant, and Dr. F. Hartshorne, to consider the possibility of tracheotomy being called for. In the meantime, however, carbonate of ammonia and brandy-punch were given, and partial expectoration took place; Dr. Watlare was able to r: move more of the obstrucdion by a sponge and frreeps, and the operation was given up. The stimulation seemed for a while to improve his condition decidedly. In a fow hours the thront was quite clear, after vomiting. But in the afternoon, with a still more rapid and feeble circulation, his violrnce and miscry returned. Ile vomited repeatedly, and had two or three very uffensive passages from the bowels. The chloroforin was nuw longer in producing any effect ; and theu it did not so thoroughly enotrol his restleseness as before. It was assisted by laudamum injections of $3 i$ at a time.
$8 \frac{1}{2}$ r.m. He is in a profound sleep, pulse 175 in the minute, and febble. He has been so siace five octock, when he had, during my absence, ath injection of 3 ss laudanum, being then restiess. iIn also breathed a little chloroform about that time. Fanning him now hardle excites any spasm; but occasiunally he opens his cjes with a distressed expression; sevcral times also stretching out the hitten arm, and holding it for some moments at full Jength.
At midnigit my brother found the extreme sensitiveness to cold decided as before; a crup of water on the face causing a violent sob. This is satisfactory evidence that the narcotism has not been excessive; for whacever suwa person under the influence of opium evince any sensibility at ail?

Dr. Spackman had observed this evening a new phenomenon, which was now very striking; it was emphissema of the cellular tissue around the throat.* It was swelled considerably, and crackled very distinctly under the finger. We had laid him on his side on the occurrence of vomiting to prevent the cjection from passing into the larynx; and on account of the swelling of the throat, the head was now thrown backwards. But the muscles of the neck were repeatedly and carefully examined; and not the slightest rigidity was found.
IIe sank away quiety, and dicd without furtier spasm, at about half-pastt two on the morning of the 21 st, having lived at least seven days since the commencement of hydrophobic symptoms. Like most or all of the cases described by Watson and others, it was not asphyxia, but asthenia which destroyed him; asthenia in this case was the direct effect of the pecuitiar poison; as the exhausting fatigue of spasms and violence was prevented to a great extent by chloroform, and he was able to swallow some liquid not many hours before death. I saw the corpse a fow minutes after he expired; and found it nearly or quite as warm as in health; so that I requested delay in moving it: No post.mortem examination could be oblained.

The case had been seen by Drs. Spackman, W. Harris, R. P. Harris, E. Pease, F. Harthorne, R. S. Woddrop, C. Wister, J. W. Wallace, and W. D. Stroud; most of them, however, while under the infiuence of chhoroform.

To resume. The boy was thirtecn years old. Was taken sick about six weeks after being bitten by a dog proved to behave as if rabid. Had higl fever, which had no remission, and yet no charecteristics of typhus or typhoid fever; he was not deaf; had no tympanitis; no petechix; but had throughout, excessive sensibility to impressions, particularly those of cold, and about the face; had a difficulty, at umes incapability of swallowing. caused by a spasm, which made a violent respiration simultancous with the attempt to swallow, and thus impeded the latter and endangered the passage of liquid into the windpipe; which symptom was constant, and belongs to no ordinary type of disease; had injections of hudanum, 3 ss or 3 i repeated again and again with no effect ; and breathed cliloroform for hours, with only short intermissions, with no more effect than to tranquilize him, and produce natural slcep, from which he was, once at least, roused by a return of wild delirium; and yet had no sign whatever of tetanus; no possibility of mania-a-potu; and very little, and only occuaional complamts of pain; which pain, when it occurred, except in the first stage, was

[^9]in the arm which had been bitten by the dog; had also salivation, constant watering of the eyes, and finally vomiting; and whose delitium was, mitil quelled, of a malicious and furious character, or one of dread, horror, and distress; ending fatally at the cnd of the seventh day.

What name should be given to such a case? "Hydrophobia" is not appropriate, because in tbis and other cases they desire drink, that are incapable of benefiting by it; would not dyspotia, or rabies dyspotia (from $\bar{c} v 5$, and $\pi 0$ orot, drink), be more correct?

It is a highly important fact, that the inhalation of chloroform, persevered in at intervals, did master the violent delirium and hor. ror of the case. Dr. Smiley of Philadelphia, and Dr. Stout of Easton, havealready noticed the same cffect; although their cases alfo were fatal. This removes at least one element of evil from the discase. And if any remedial agency can ever give hope of cure, it must be, when aided by other means, one which has such control over the symptoms, attamed hitherto by no other medicine.

We were deterred fram depletion by the lancet by the supposed analogy to tetanus, in which stimulation is mostly requisite and useful. But free bleeding is said to have effected one or two recoveries; and has $a$ priori plausibility in its favour, as the $d$ sease is inflammatory both in symptoms and post-mortem appearances. We were unwilling to use counter-irritation to the spine, from the idea that death was certain, and that those means only were, therefore, justifiable, which lessened or did not increase suffering. And the early resort to chloroform was prevented by respect for the doubts of those who at first were inclined to regard it as a case of fever.

With a distincl diagnosis, should another case present, in recol. lection of the mitigation already obtained--would not the practitioner be justified in commencing with venesection; using chloro. form, with discretion, from an carly period; and applying some powerful revulsive, aided by a narcotic to the nucha? Dr. R. S. Woddrop proposed vesication, followed by the frec application of a salt of morphia. Perhaps acupuncturation with aconitina might prove more powerful. This treatment has been found successful in obstinate neuralgia, I used a sort of cataplasm of tinct. rad. aconit. to the throat in the above case. An excessive sensitivences to incident impressions, and consequently excessive notory action of particular muscles, including the dinphrarm obviously in this case, as well as those of the throat, seems to be present. Remedies which lessen sensation are the ones, then, which may mitigate the disorder at least. In France, the vapour bath is asserted to have wrought a cure; its efficacy should be tried, and might be aided, as was contemplated in our case, by medication with such articles as tobacco, chloroform, :- onite, to produce a powerfully antispasmodic funigation of the $w$ le surface of the body. Prof. S. Jackson advises bathing in warm oil. When swallowing is impossible, the stomach tube might be inserted through the nostril. as done by Dr. Juseph Harshorne a number of years since, in the hospital; and life also supported by nutritious enemata.

But careful reflection will only decply impress the conclusion. that with all the means that man-wan devise, the malady is one which affurds less hope of cure, decidedly, than phthisis; and that prepention by immedtate excision (or cauterization?) of the bitten part, is the only safeguard against its result.-American Journal of Medical Science.

Diractions relative to the Prevention and Tratment of Cho. berc.-The Royal College of Physicians of Lindon. feeling that, on the re-appearance of epidemic cholera in England, the public may naturally louk to them for advice and guidance, have decmed it proper to appoint a cholera committee, composed of physicians who hold important offices in thie metropolitan hospitals, or who had extensive experience of the disease at its last visitation, to consider what measures it is expedient to adopt, with a view of preventing the spread of the discase, and of otherwise mitigating ita evils.

The committee thas formed have, in compliance with the wish of the college, drawn up the following remarks and instructions, for the information of the public:

1st. Cholera appears to have been very rarely communicated by personal intercourse; and all attempls to stay its progress by cordons or quarantine have failed. From these circumstances, the committee, without expressing any positive opinon with res. pect to its contagious or non-contagious nature, agree in drawing this practical conclusion ; that in a district where cholera prevaiis,
no appreciable increase of danger is incurred by ministering to persons affected with it; and no safety afforded to the commu. nity by the isolation of the sick.

2d. The disease has almost invariably bern most destructive in the dampest and filthiest parts of the town it has visited. The committee would therefore urge on the public authorities the propricty of taking immediate steps to improve the state of sewers and drains;-to cover those which are open;-and to remove all collections of decaying regetable and aninal matter from the vicinity of dwellings. They would also impress on individuals, especially of the poorer classes, the great importance of well airing their rooms, and of cleanliness in both their dwellings and persons.

3d. A state of debility or cxhaustion, however produced, in. creases the liability to cholera. The committee, therefore, recommend all persons, during its provalence, to live in the manner they aqve hitherto found most conducive to their health; avoiding intemperance of all kinds, and especially the intemperaie use of ardent epirits and other intoxicating liquors. A sufficiency of nourishing food; warm clothing, and sicedy change of damp yarments; regular and sufficient sleep; and a voidanee of excessive fatigue, of long fasting, and of exposure to wet and cold, more particulary at night, are important means of promoting or maintaining good heallh, and thereby affurd protection against the cholera.

The conmittec do not recommend that the public should ab. stain from the moderate use of well-cooked green vegetables, and of ripe or preserved fruits. A certain proportion of these articles of diet is, with most persons, necessary for the maintenance of health; and there is reason to fear, that if they be gencrally abstained from, now that the putato-crop has in a great measure failed, mony persons, expecially amongst the poor in large towns, will fall inte that ill condition, which in its highest degree is known as scurvy, and that they will in consequence is the readier victims of cholera. The committee likewise think it not advisable 10 prohibit the use of pork or bacon; or of salted, dried, or smoked meat or fish; which have not been proved to exert any direct influence in erusing this descase. Nothing promotes the spread of epidemic diseases so much as want of nourishment; and the poor will necessnrily suffer this want, if they are led to abstain from thise articles of food on which fron their comparative cheapness, they mainly depend for subsistence.

On the whoic, the committee advise persons living in districts in: which cholera prevails, to adhere to that plan of diet which they bave generally fomd to agree with them; avoiding merely such articles of food as experience may have taught them to be likely to disorder the stomach and bowets.

4 th . The commiltee are unable to recommend an uniform plan of treatment to be adopted by the public in all cases of looseness of the boweis, supposed to be premonitory of chnlera. It is, doubtless, very important that such ailments should be promptly utlended to; but since they may arise from varinus causes, of which a medical man can alone judge, the committee deem it eafer that persons affected with them should apply at once for medical assistarec, than that they should indiscriminately use, of their own arcord, or on the suggrestion of unprofessional persons, powcrinl medicines, in large and frequently repeated doses. Stsould the lonseness of the bowels be attented with feelings of great exhaustion and chilliness, the pere in should, of course, be placed in a wain bed, and the usual means of restoring warmth to the body be assiduously employed, until professional advice can be obtained.
5th. In oider that the poor may have the menns of obtaining such assistance promptly, the committee recommend that the proper authorities should at once establish dispensaries in those parts of the town which are remote from the existing medical institutions; and that they shoulit also take stepe to provide distinct cholera hospitals, which it will require sume time to orgañ* ize, and which they believe will be found to be absolutely neccisary, should the epidemic prevail in this metropolis with, a severity at all approaching that which it manifested on its first appearance in England, The cummittee wish it to be clearly understood, that they do not reconmend the establishment of such cholera hospitals, on the ground of effecting the separation of the sick, from the healthy, and of thus preventing the spread of the disease; but solely in erder that, should the epidemic prove severe, proper "attendance and prompt treatment may be ensured for the sufferers from cholera among the poorest and most desti.
tate class. The existing hospitals. even if the authorities should cunsent to the admission of persons ill of chimera, could not furnish the requisite accommodation, unless they were shut agamst persons labouring under other severe diseases-a mearure which, at the approach of winter especially, would add much to the dis. tress of the poor.
6 h . In conclusion, the committee would urge on the rich, who have comparatively little to fear for themselves, the great duty of generously and actively ministering to the relief of the poor, while the epidemic prevails; bearing in mind, that fuel, and warm clothing, and sufficient nourishment, are powerful safcguards against the discase.
They deem it most desirable that the parish authorities should at once improve the diet, and increase the comforts of the proor under their charge; and that the wealthy should form societies for the supply of frod, clothmg, and fuel, to those who, though not paupers, still need charitable assistance in the present energency;
Such measures, which it is the daty of those possessed nf power and wealth to adopt, would, the committee believe, if libcrally carried out, deprive the cholera of half its victims.

> John Ayrton Paris. Prosident.

Francis Hawhiss, Registrar.
College of Physicians, October 28, 1848.
-Prov. Med, and Surg. Journal.
Lecture on the Nature and Treatment of Cholera, considered with reference to its Analogy with Congestive Agues of Quotidian Type, by Charles W. Bell, M.D., K.L.S. (Read before the Medical Staff of the ManchesterRoyai Iffrmary, and the Membere of the Medical Profession in Manchester, Octover 2th 1848.). Gen-tiemen,-Both as students of the science of medicine, ard as professors of the healing ert, we are all at present peculiarly interested in investigating the nature of cholera. Thirty two years have now elapsed since that fatal disrase first became known to our ceuntrymen in India, and through thern to the inhabitants of other countrics; but it was long regarded by the nations of Europe and America, as belonging rather to another wotd, than as ever likely to become personally interesting to themselves.
It.was only on its actual appearance among us in 1832 that we became convinced of our mistake, and were thrown into all the consternation that attends a mysterious and unexpected object of terror. At that time every human attempt made to arrest its progress proved in vain, and, setting almost every variety of climate at defiance, cholera completed the wido circuit of the world.
No sooner, however, was the danger past, than we relapsed into our false notion of sccurity, until this was again dispelled by appalling accounts of its renewed progress through Asta, and of its having again passed the boundary of the Cancasus, invading Europe by the identical route which it had followed seventeen years before, with no other difference than that its front was now more extended.' It might reasonably have bret expected that after the disease had extended itself over nearly the whole globe. and the press of every coutry had absolutely teemed with essays upon the subject, some definite agreement would have been arrived at by the profession with regard to its essential nature, and io the principles apon which its treatment should be conducted. It is, then, little flattering to our professional pride, to be obliged to acknowledge that this expectation has been disappointed.
The medical press gives almost daily evidence, that little infor mation of importance has been added to that which had been collected by the carliest observers of the disease; uur practice is atill almost entirely empincal, the princeples on which it slould be conducted are as little determined, and the opinions of the pro. fession as litule settled as they were on its first visitation.
Even the great question of the capability of cholera being communicated by contagion, is still a mout point, and all the evidence collected on the subject is irsuficient to convince our legistature that quarantine regulations in regard to it, are only a useless and cruel grievance. Under such circumstances, and after many of the first medical authorities of the past and present generation have failed to elucidate its nature, it is only natural that every new otlempt to throw light upon the subject should be reccived with distrust, and that any one who now ventures of the discussion. will do so at considerable risk to his professional reputation; I vannot, therefore, but feel much difidence in doing so, and that
much apology is dues to you fe. requesting your attendance here for that purpose.

My reason for making the at tempt is, simply that I believe the circumstances under which 1 have hadata opportunity of studying the discase have been pecoliar, and such as to lead to the conclusions of great importance, and that I showid be acting little in unison with the spirit of vur profession, and be neglecting a great duty, if I failed in laying that information which chance has accorted me, before its members. I may, it is true, have overrated the value of my opportunities (this is for you to judge,) but believing, as I do, that what 1 have witnessed, if fairly set furth, will lead to the determination of a principle, rather than a rule of practice, I have felt it inperative on me to submit the subject to your consideration in the same light in which it had appeared to myself.

After becoming aequainted with cholera, under very favourable circumstances, in Edinhurgh, in 1832-3, and in Lond,on, in 1843-4 it was my lot to be stationed for several years in Persia, a country situated iowh gecugraphically, and in puint of climate, midway between India and Eurape, and there 1 had the opportunity of observing closelv the first appriaches of the identical cholera which is now swecping irresistibly towards us.
The discasc was there usheres in by a regular succession of epidenies, commencing in a fever apparentiy continued, but by and by assoming more the character of a remittent, and this very gradually changed to an intermittent of quotidian type; of this the cold stage gradually became prolonged, and assumed all the appearances of an attack of cholcra, and then came the cholera. as it has everywhere been known, without any obrinus stages or intermission. This again in its turn disappeared, and the epidemic resumed the character of remittent and continued fever for a time. These various changes occupied a period of eighteen months.
Having thus witnessed the disease analysed end dissected as it were, into its component parts, and secn continued fever gradually resolve itself into cholera, and cholera into continued fever, by slow gradati ms, in a manner which does not appear to have ever been presented with the same perspicuity to any author, having, too, been obliged to follow each varying type of that epidemic with appropriate treatmeit, I have been led insensibly to those vicws of the neture and treatment of cholera, which I shall cndeavour to sabmit to you, as shortly as may consist with my intention of leading you into the same train of reasoning which I myself pursued.

By considering this fatal disease rather as an oxaggerated example of others better known, and whose treatment is more familiar to us, than as something anomalous, and unlike every other disease, we shall, I trust. escape the necessity for vainly scarching for some principle capable of reconciling modes of treatment so much at variance as hot-air baths and warm stimulant potations on the one hand, and snow baths and iced drinks on the other. Ether, alcohol, tartar emetic, calomel, lead, lonar caustic, croton oil, naphtha, assafoetida, quinine, opium, pepperinint, bleeding, blisteing, and the actual cantery, are only a few of the remedies that have been proposed for the same stage of the same disease, all equally failing-all equally recommended as iafallibie.
Still, there is one valuable conclusion to be drawn from the very c.ntrariety of the means cmployed, viz, that almoct all have felt that the more obvisus indications (which the well marked symptoms of clolera would lead us to follow,) are not to be trusted as guides in the treatment of the disense; that some brader principle is necessary to direct our practice than the fallacious one of opposing the cold of the body by external heat, the collapse and sinking of the vital powers by stimulants, or the purging and muscular spasms. Iaderd, the abandonment of this mothod of treating symptoms, and loss of faith in heat and stimulants, are what chiefly distinguish the more recent works of experienced authors from those of more ancient date, and of less practical acquaintance with the discase.
In concluding these prefatory observations, I beg to remark, that I have endeavoured to avoid discussing the opinions of others because this is unnecessary to the audience I an addrcssing, who are not only well acquainted with the works of the best authors on the subject. but also posscss a large amount of unpublished knowledge of the disease from their own practical experience.
The similarity cf cholera to the cold stage of ague is too obvious not to have occurred to many, but thero were, unfortunately,
two circumstances which contribated much to prevent this ana. logy from being pursued to its full extent-the first being the want of any obvious stag= of reaction, relazation or intermission; the other, that quinine and arsenic wore not found effectual in the treatment.
It was observel that recovery from the cold sage of cholera in this country was not unfrequently followed by a law form of continued-I should rather say remittent fever, and this instead of being regarded as une of the modificutions of the disease, induced by clinate, or, as a secondary efficet of primary disorder, was considered by too many as the hot fit which belonged to the protracted cold stage that had preceded it.

I shall endeavour to point out that this form of fever not unfe. quently precedes and follows cholera as an epidemic, sven at long periods, before or after the appearance of the majur matadr, and sometimes occurs as its substitute; and that while it prevails in a country, the "epidemic constitution" to which it belongs, more or less mfluences the course of aimost every other form of disease by producing a greater than usual tendency to venons congestion and diministed or irrcgular action in the capillary circulation; and that the type of sporadic fever in this country has forsevcral years approached very nearly to this, especially in the last few weeks; -as also in Edinhnurgh in 1843, in Liverpool in 1844-5, and has been more particularly displayed those casce of fever that have arisen spontaneously from purrid vegetabie matter.

Finally, I hope to convince you that the alliance of cholera with other discases, of which quotidian periodicity is a marked characteristic gives us reason to believe thateven when apparently most destitute of regulariy recurring periods, it is not utterly so in reality. That it is, in facl, by considering cholera as an aggravated congestive ague of quotidian type, that we shall most nearly arrive at just principles on which to conduct its treatment and that the neans by which cure is effected in the one, are both theoretically and practically those which are most appropriate to tho other.

Distinction between Malarious and Contagious Fevers.
Before we enter on the consideration of those discases, with which cholera is alhed, and of which class it may be considered one of the extremes, it will be well to devite a few minutes to consider the broader points of distinction between this clats and those diecases which are communicatle by contagion.
By active disease, we mean either the direct effects of toxical or mechanical injury to some portion of the system, or the indircet effects produced by the resistance opposed by the vital powers to the operation of such canses-or, lastly, the cffects of the struggle between the noxious : ifliuence, and the vis medicatrix.
Fever is the most obvious and most frequent evidence of the aetivity of the vital power to resist a noxious influence, and of the attempts of the powers of life to repair the effects, and remove the cause of injary ; but in considering fever in gencral it is usual to limit the term from its wider scnse to that condition which follows the absorption of certain poisons into the blood. When, therifore, we find fever to be the consequenco of absorbed poisun, it is of the utmnst importance to endeavour at the outset to ascertain' as ncarly as we can, npoin what part of the system, and in what manner the effect is produced, and what are the actions by which its infuence is resisted.
That the cause of both contagious and sporadic fever is introduced into the system by the blood, few ingleed doubt; but the important question is, dues the cause produce its effects directly on the blood itself by essentially changing its constitution, or is it only conveyed by the blood, like digitalis, aconite, opium, \&c., and without causing any essential change upon the blood, operate by affecting the nervous system?
In an admirable "essay on "Spotted Typhis,". read before the Provincial Medical Assuciation in August; 1848. Dr. Davies, of Buth, drew a broad distinction between the two cluses of poisons which are known to produce fever, viz., animal poison, and ma. laria. . There is one kind of poison, he said, which; arising in the blow, and finding the elements of its reproduction in the blood of another, produces a fever capuble of being propagated from man to man' and there is another class of poisons, which arising in elements extraneous to the blood, dues not find its elements there, and though it produces fever, cannot reproduce itself; and is not capable of being propsgated from one to another.
The second class is that which is now to occupy our attontion. at least thal portion of it which embraces fevers produced by mo.
laria, whose characteristic is periodicity,* and I shall venture to enunciate the proposition with regard to these even more broady: -That allhough the first c.ass of poi-ons--that, viz., which produces the exanthemara,- -uperates on the blood and changes its constitution, the sccond operates unt on, but through, the slood, and produces its effects by its agency un the sympathetic system.
Both classes no doubt produce effects on tho sympathetic, but the first, (the animal poison,) acting by a continuous irritation, produces a perastent effort of the emunctuaries to removo the poison frum the blood, or continued fever; the second (malaria,) acting solely by nervous impression on the sympathctic, produces merely a strugg!e between the impression which is opposed to vitality, aud those sensations and actions that are provided for the maintenance of animal life. 'This struggle is what we observe to take place in the intermitting and congestive fever, \&c.
If malarious poison actually changed the constitution of the blood, it would be as impossible to cot short a fil of agruo as an attack of small-pox or scarlatina; bati it is possible to cut short an ague, by means which (as we shall soe when we consider the trealment of intermittent,) are not one of them calculated to produce an essential change on the blood itself. There would, ton, in all poobability, be sime evidenne of an elimination of the poison by the fit, as by the skin in the exanthemata, which there is not; or some difference in the blool drawn sieveral houre before and after the fit; but in both cuses it is equally incapable of propagating the disease by inoculation. Bes des, it appears scarcely posiblo to acconnt for the leading characteristic of the whole class of these fevcra-their periodicity - on any principle but by the law of nervous impressions,-viz., that long-continned impression of an object upon a nerve of sensation impairs its sensibility, but hat a' change of impression restores it ; as the eyc long fixed upon a point becomes insensible to the impression of light, but recovers its sensibility on being turned to other objects.
So the continued mpression of the poston on the sympatictic subdues its sensibility to tts appropriate stimuli,-viz., that ex. citahility winch resides in the vital nrgans, "whose action the sympathetic governs and regulates, but its infitability becomes re. excited, and its energies are restored by the new impression caused by rhange from a natural to a distarbed condition of the organs, which is the consequence of the withdrawal of the influence that combines and regulates their functions. Like the ege, restored to a sensibility to light by change of object, where the energy of the sympathetic is thus restared by the new impres. sion, the recovery of its natural sensibilities would be permanent, were it not again submitted to the same influence by which it had been paralysed at first ; but as the optic nerve will again become insensible when the gaze is again fixed as before, and this soonit or later. as the object is more or less illuminated, sn does the sympathotic require to be again undisturbedly solmitted to the noxious impressiou after recovery of its sensibilitics before the effect is aguin produced, and that for a longer or ehorter tine, according to the power of that impression.
If we shall sec. reason to believe that the effects of the malaria under consideration are not cansed by actual change operating on the blood, it will be cuident that they can only be produced through the agency of the sympathetic, for we shall have frenuent examples of malaria, affecting at one time the circulation merely us in ordinary agae; at another only the bowels, us by diartheat or nervous constipation; at another the cercbro-spiual system, with convulsion, paralysis," or neuralyia; or, again. we have either two combined, or all three, as in cholera; and we bitow that with the exception of the blood; there is no other clement in the system but the sympatictic, which is in such intimate contact or connection with the organs of circulation, or digestion, and with the ccrebro-spinal ncrves, as to be capable of producing theso effects.
We find, too, that what we should expect from our acquaint ance with anatomy, really is the case,-viz., that the cupillary circulation is the part of the system which most frequently, must

[^10]easily, and most completely, submits to the influence of malaria acting through the sympathetic, because almost every other part of the systom, -the heart, stomach, lungs, viscera, \&e., are all supplied hy other nerves, the capilaries alone depending entirely on the agency of 'he sympathetic, whose branches are distributed to every, (even the minutest,) vessel in which our instruments enable us to irace it. This view is further berne out by consid. cring the change from the healthy functions of this part of the sstem that are manifested when influenced by the morbid im. pression. In a state of health we know that certain chemical reactions take place between the blood and the terminal structurcs of the capillaries, by which perpetual slow absorption and deposition of the tissucs, is effected, eertain secretions are produced, and animal heat is evolved, and that while those actions go on un. disturbed, the blood flows freely and unimpeded through the genty distended, but still very minute, veins, without exhibiting the least tendency to adhere to them, as would be the case in inanimate capillary tubes of equal daaneter; neither does the contained blood exhibit any tendency to coagulate. We know that this property of preventing capillary adicsim of the blood to the coats of the vespels, and of preserving the flidity of the blood, is peculiar to the living inner coat, and not to living structures generally, for extrayesated bleod, in whatever part of the body, mmediately congulates. We are also svare that the capillary circulation possesses local excitability, (insependent of the heart,) and the power to resist injury or repair its effect, and that rxxitability is a reflex action, commencing in seasibility, therefore that this latter quality depends upon the nerves of the vessels.
To prove that ait cicse qualities are bestowed by the sympathetic nerve wou'd lcad us too far from our present object; suffice it to remark, that the first stage of ague and cholera is marked by diminution, or cessation of all these qualitics and actions. Of the cffect of this on the change of the tissucs we have little exidence, but we see secretion stopped and converted into exudation, which physiology teaches is directity the oppositc of the vital action; the evolution of animal heat ceases; the veins contract like those of the dead budy; the blood returns from the terminal structures in a condition very diffiernt from that of health - not coirsing free!y through the vessels, but slowly, and as if adhering to their coate, and in a hatf e sarulated state; and, lastly, by the application of stimult, which tivuld produce immedia: reaction in the healthy skin, we find it alnost impossible to excite these vessels in cholera. The direct conclusion from all this is, that impaired excitability, nervous encres, and vitality of the capillary circulation, is the first and most essential effect witich we perceive of the impression of ague or cholera, and that the change produced upon the blood is more probably the sacondary effect of the cessation or diminution of those changes which are produced upon it in the capillaries of the lungs, und of the system in health, than in any way attributable to dircet influence of the poison on the blood. In the whote class of diseases now under consideration, we shall find evidence of disorder of the sympathetic system in one or more of its vital functions, daplayed cither in the capillary circulation, the digestive, or in the cerebro.spinal system ; but m not one of them is any conclusive evidence to be found of a poison eliminated from the system by the fit, in any way resembling that which is thrown off from the blood in fevers produced by animal poisons of the class exanthemata, nor can wo conceive any suurce of conslant and universal irritation to the constitution, such as would result from essentially discased condition of the blood, to be characterized by internissions, or to be capable of cure by means addressed to the more interruption of periodicity. In such a casc, on the contrary, we should expect only a continued and persistent action, till the end to be accomplished by the climinationd of the poison is attained. Moreover, if it be grant. ed tuat continued fever is the effect of a constant sonrce of irritation existing in the blood, it would appear to be a corollary to the proposition that intermittent, as opposed to continued peaetion, is, direct evidence' of tie absence of a source of irritation in the blowi, and preduced by means diametrically opposite, which we have fair grounds for concluding to be the absenco of that frritability in the very structures which become excited bf a source of irritation existing in the blond in continued fever, or by their natural stimulant is health, viz, distension by the via a tergo of the heart.*

[^11]On these grounds, considering simple ague as the type of the whole class of discases which we are about to study, we shall proceed to examane its symptoms and the indications for treatment.

## Symptoms and Treatment of Internittents.

Intermittent fever has been generally described as consisting of a cold stage, with shivering; a hot or febrile stage; and a stare of prespiration and relaxation, followed by intermission. This description cannot, however, be received as a definition, because of these stages there is only one that is constant,-viz., periodical return of the cold stage, white the febrite and sweating stages are only the consequences of subsequent reaction and relaxition, and sometimes they are altogether absent. But shiverng is by no means an essential to the cold stage; on the contrary, in the most dangeruas forms of ague, shivering is often absent, as it is in cholera, because the cisturbance of the circulation in the cold stare is such as to overpower this symptem.

Shivering may practically be considered not so much a symp. tom of the impression of cold on the body' in health, or of the cold stage of ague, as an cridence that reaction is taking place in the system, and that the heart possesses the power to overcome the obstruction opposed to its action; it is, in fact, the first step of the febrile stage, and in the more malignant iorms of ague, is the surest liatiunger of recovery, and the best evidence of reaction.
In the medical treatment of aguc, little is generally attempted in the cold stage heyond giving a stimulant daphoretic, or in the febrile cooling diluents. It is customary to trast entirely to the means of prolonging and corfirming the intermission by the use of antiperiodic medicincs. Bat this routine method of trestment is not applicabic in all agues, for these differ materially in the urgency of their symptoms, according to their various types, and the duration of their period of intermission.
Thus, both in quartan and in tertian aguc, febrile reaction generally rums so high as to cause this stage to be most dreaded by the patient, and the congestive stage is of comparatively little moment, being accompanied with shivering almost froin the first; but in quotidrinn the case is very different, the fever, where it exists, being slight and of short duration, and both this and the sweating stages often absent or imperceptible, and the interval between the fits is sometimes so short as to be insufficient to restore natural i.rritability to the system by repose. The congestive or cold stage is, on tie uther hand, extremely severe, and such as to endanger the vital organs, and even to give rise to the dread that the attuck may prove fatal before it reaches the stage of reaction. In such a case, then,--and such it will appear is cholera, - not fever, but the opposite condition, is to be feared, and all our efforts mast be dirceted to obviate or relieve congestion.
There cannot be a douist that this is the nust essential part of cholera, and the grcat source of danger in congestive ague; we shall, therefore, devote the remaining portion of this lecture to the consideration of the cougestive stage in its cause, nourse, symptoins, and effects, and to the mechanical neens of relieving and curing it, whether natural or artificial, reserving what w: 'jave to say on the medical part of the treitment for a future lecture.
It is customary to date the commencement of a fit of ague from the commencement of shivering, and of chulera from the first purging, but this is an iuportant error, for long before this symptom comes on, a certain shrivelled appearance of the skin may be observed; the expression of the eyes changes; there is a feeling of malaise and confusion in the bead ; the nails look blue and bloodless, and are marked with a sed and white streak, and there is a tendency to yawn and a fecling of oppression about the heart, accompanied with sighing.
The essential part of ague has begun, perhap, as mueh as two hours before the shivering occurs; the blood is gradually foreaking the cxtremities, and is driven in upon the heart more quickly than it can be sent through the pulmonary circulation, whose capillaries also resist the free transmission of blood; it therefore accumalates in the great veins, so that a grcat part of that fluid which a short time before was circulating in the extremities, be-
physiologists, - whether ciiculation of the blood by successive pulsations of the heart instcad of by a continuous metion, may not be a wise provision of nature to a void the exhaustion of reryious sensibility in the capillaries by continued impression.
ing now rejected by the capillaries, is forced to find room in the venous reservoirs, and great vascular organs of the chest and abdomet; whic the arterial system is left comparatively empty.

The consequence of this congested condition of the great veins is the disturbance of the circulation in the thoracic and abdominal viscera, and oppression of the action of the heart. This disturbance of function produces an excitement in the organs themselves (that is, upon and through the sympathetic nerves.) to resist oppression, by increased efforts to preserve life, or what is called reaction. When this effect is felt, the whole frame partakes of the influence, and manifests it by convalsive shivering. The struggle of the powers of life against the disturbed or oppressed action of those orgens whose office it is to sustain life continues, till at length the highly-cxcited powers of the heart and arterics avercome the inertia of the capillary circulation, and the blood once more coarees frecly through the veins. But this cxcess of action does not immediately cease with its victory, a period of fever suceseds, till at length, exhausted, the capilhary circulation becomes relaxed, perspiration bursts from every pore, the excitement of the heart subsides, and the circulation returns to its natural condition for a time. 'This period of repose is not, however, permanent; by and by the capillaries again succumb to the effeets of renewed impression, the same effects are produced as befure, and the same struggle ensues. The duration of the cold fit depends upon the susceptibility of the sympathetic, to be somer or later roused to perception of the disturbance of the vital functions which is taking place, and on its ability to excite the organs of circulation to mote healthy action, for according to this will the struggle be more or less severe and protracted, and in like manner the severity of the congestion and abridgenent of the period of intermission will be in proportion to the power of the mpression to produce the paralytic condition of the capillary vessels by its agency on their nerves, till the climax is reached in chulera where intermission is either wanting, and consequently fatal, or very imperfect.

If, then, the cold stage commenecs in disturbed capillary action, and contraction of the veins of the extremities; by which the blood is forced into the interior sinuses of the chest and abdomen, distending the spleen, oppressing the heart's action, and disturbing the circulation and functions of all the viscera, it is evident that to prevent or remove this disordered capillary action before it produces the above effects, will be to prevent or cut short the fit.

If again capillary disturbance have taken place, but blood from the cxtremities be prevented from reaching the interior in great excess, and from producing more than mere disturbance in the circulation and action of the vital organs, the symptors of congestion, or the fit, will be prevented, or so far mitigated that reastion will take place with comparative ease.

Or, thirdly, congestion and oppression to the heart having taken phace so severely as to prevent reaction from being evinced by shivering, the removal of some part of the blond which is producing it will enable reaction to take place, and this last is the use of bleding in cholera, as well as in the cold stage of ague. In the cure of aguc, therefure, the three intentions we have to fulfil by treatment are-
1st: To prevent disturbance of, or restore natural action to, the oapillary circulation.

2nd. To prerent excessive congestion, by anticipation.
3rd. To relieve this if it have taken place.
The first has been accomplished sometines by producing a sudden general impression on the nervous system,-at for exampic, by unexpectedly plunging the patient into cold water; bot the more usal method is to give those medicines which possess a peculiar power in preventing periodicity, such as arsenic, and cuinine, or if we consider their modus operandi, we might say those which possess a peculiar tonic effect upon the capillary circulation, or upon the sympathetic nerve in that part of its functions, and which, by producing an effect directly opposed to that of malarious poison, act as antidotes to it, in the same manner as difusible stimulants will oppose the depressing effect of digitalis or aconite on the action of the heart.

The first, then, is chicfly the medicinal part of the treatment, which shall be considered hereafter; the second and third ratier mechanical than medicinal, for the second intention is attempted to be fulfilled by the application of tourniquets to the limbs in such a manner as to retain as large a quantity of venous blood in
the extremities as possible, but is still better effected by the carls use of venesection before the more prominent evidences of congestion have been manifested. The third is, after the congestion has taken place, to draw blood rapidly from both arms, in order to relicve the congestion.

The mechanical treatment of ague by bleeding, therefore resolves itself into this, that if we can bleed after disordered action in the capillaries has commenced, and as yet has only disturbed but not oppressed the action of the heart, but before the great struggle of the system which ensues on established congestion has begun, the abstraction of blood is easy, safe, and effectual in preventing congestion and producing immediate cure; bat after stivering has begun, blecding is unnecessary antd may be injurious, because it will then disturb the healthy reaction of which this is an indication. If practised after the commencement of slaivering, the first effect of bleeding will be to bring back the congestive stare with tendency to collapse, and afterwards to relieve it; but this is done at monecessary expense of blood, and although generally successfial in cuting short the ague, is practically neither so safe nor so effectual as bleeding jost before shivering begros, and therefore it is better to delay till the next antecedent period.
When, however, the evidences of extreme congestion exist without shivering, shewing that it is becoming dangerous, and that dice reaction is prevented by the mechanical obstruction offered to the heart by excess of blood, bleeding frum the veins cannot be had recourse to too prompily, in order to relieve it and tho other organs from the pressure. But although in an early stago these are perfectly good and intelligible reasons for bleeding where congestion is severe, the practice is not to be recommended after it has existed for a long time, and the reason is this,-
Experience has proved, that often in cholera, where scarcely any external evidence is given of reaction, or restoration to a more natural conditon of the circulation, sach restorative action is nevertheless really taking place, and if the powers of life can only support the oppression without utterly failing, for a certain perind, the disturbed circulation of the capillaries will by and by cease, the heart be freed from obstruction, and the gencral circula. tion be more or less restored. Practically, therefore, it is better and safer not to use the lancet if congestion have existed for several hours, lest by bleeding we disturb the natural teadency to recover, so far us to leach a second period of relief at last, if not of reaction: and test instead of relieving oppression, we thould thereby produce syncope. Under sach circumstances it is moro adviscable to trust to medicine and to inature, until the 18th or 20 th hour in quotidian discase, or till an hour or two before the next anticipated fit in other forms, shall afford us a safer and more ad. vantageous opportunity of pursuing the same practice with a view to arrest the congestion in its renewed accession. The case, however, is very different when carly called to a patient in whom this condition has existed but a short time, and when there is reason to believe the heart to be in full possession of its energies and only in want of inechanical relief to enable it to resume its powers. In such circumstances there is not only no danger from blecding, bat its effect is littic short of miraculons, and in the course of a few minutes, the patient arises from a bed of death and torture, to the full enjoyment of life and health.
In a case like this, no mistako is so fatal as delay, which is unfortunateiy the must generous one, for here the timid practitioner fears to bleed when he can hardly feel the pulse; he hesitates and waits until he observes it rise a little, and then acting on the rule, rather than on the reason of the practice, he opens a vein, cuts short the feeble attempt at reaction, and kills his patient in the attempt to cure him. Some have even carried culpable ignorance of the intention of bleeding in cholera so far, as failing to obtain blond from a vein, to open an artery, hitte thinking how much reduced is the guantity of properly arterialized blood that amid the disorder reaches the left side of the heart, and that upon the capability of that little to sustain life through the struggle dopends the life itself. By taking arterial blood he takes the life of his patient, produces syncope, and having removed the feeble resistarce to death which still existed, his patient sinks at once and inyariably into complete collapse. Of thes fact there is no want of examples on record. Be assured that the rising of the pulse after it had been lower, in cholera, as in congestive ague, is positive reason against bleeding, find the best evidence that the constitution possosses the power to carry the patient over that days'
attack, to enable him to reach a second, if only let alone, and not worried to death with over.treatment.
-When, however, we decline to bleed after the patient has been labouring under severe congestion for five or six hours. we must search for the practical reasons against doing so, in the effects produced by bleeding in the hot stage of intermittent. This is a subject on which I car speak from sad experience, and one on which unintentional evidence is borne by many cases reported in yations worts on cholem, where blecdine has been practised in a late, but yet fon early, period of the attach.
In ague, whenthe period of congestion is over, and the febrile marks the progress towards a return to natural action, but where the impression which produced the cold stage is as yet only partially recovered from, it is evident, if the theory be correct. that the effect will as readily be renewed as light upon the half glazed eye, which, having been fixed on an object till insensibility is produced. and only haif restored to its sensation by removal, is again subjected to the impression, without sufficient interval fully to regain its powers, it becomes almost immediately reaffected as before, and insensibility is nearly instantaneous. So it is with blecding in the hot stage of ague; syncope and return of the congestion are the immediate consequence; or in less severe cases, or later in the hot fit. the intermittent is in danger of being converted into remittent fever of a low, irritative, and dangerous character. Much more might be urged on this subject to slaw that. independently of the above considerations, that period which immediately succeeds to a long and exhausting strugyle of the heart and arieries is not the most fuvourable time to expect a greatly increased effort, but that on the contrary, when the tone of the exhausted vessels, now long accustomed to an overcharge of blood, has become impaired. synespe should be a more probable consequence of venesection than relief and reaction.
If then we have reason to believe that there is a natural tendency to recover from this condition, and to dread and expect its renewal at a certain future periot, wo must be exceedingly care: ful not to run into the dangers we bave indicated by mistimed bleeding, but rather trust to medicine alone, and await that more tavourable period, which, with proper care, will arrive with cer fainty in by far the greater proportion of cases of congestive ague, and aiso, I feel arsured, from my own observation, in cholera.
We shall have occasion again to return to this subject, but were I called on to give a rule for bleeding in the congestive sage, it would be to bleed early and bodly in the first, or even the second, hour, but no later. till the eighteenth or twentieth, after its first manifestation, when the same rule will again apply after the twenty-fourth:
The above remark; have been addressed chielly to the consideration of the cold stage of intermittent fever, and their aup'ication to cholera has been only incidental; nevertheless I have stated, that I believe cho'era to partake also of this character,viz, a tendency to intermission, however slight and imperfec!. I am unwilling to state a fact of his importance on my own observation cnly, and prefer to rest the argument on the near relation of cho'era to quotidian ague, and on its connection with diseases of an intermitting character, with which it was asso ciated in its first onsét in Persia, in 1842-3. This will form the next part of our enquiry. For the present I shall content myse:f with stating that the perusal of cases by a great variety of authors, has not tended ta change this opinion ; and I cunceive, that if read in the same spirit with which I perused them. this will also become your opinion of the disease, both as it has appeared elsewhere, and as it will probably appear tiere. In the usual form of cholera I must allow that the symploms of this condition are very siight inderd, and I cannot expect them to he conclusive with most, becau-e only to be recognized if recognized at all. on heing sought for with the desire to find them, which undoubtedly is not gond evidence. The obvious and external signs of its existence, merely amount th this-that in most cases of cholera, not rapidy fatal, if visited about the eighteenth or twentieth hours after the commencement. the patient will be found lying in a sort of lethargic condition, apparently more sunk and more resigned than he had been for several hours tefore; but on examining the action of the heart with the stethosen;e, you find it more natural and less excited; you find the warmith a little more extended on the chest, and the patient rather sulky than insensible. If, finding tim in this condition, you sit down
by h:m, and watch what takes place, you observe this apparent lethargy cease, he again becomes agitated, throws of the bedclothes that he had lately permitted to remain unon him, the action of the heart again becomes tumultuous. and he previous signs of sufiering are increased. This certainly is but small evidence of intermission, nevertheles; it is some, and considering it as such, the efficacy of b'eeding in this stage of rep:se, or just as the agitation is begianing. has been such in my orn practice, as to my mind, to corroborate the opinion; whereas the ressitt of the practice of bleeding as the pulee begins to rise very slightly previous to the period when this kind of repose might be expected, (as 1 have seen practived hy ohers. and which you will find recorded in many pabished cases,s, is very much the reverse 1 can only endeavour to reason on this sulject. which must be left to the general experience of others to decide. I am satisfied, however, that as far as my own has gone, the rule I wou:d attempt to :mpress, wi h regard to the most favourable times for bleeding, is correct.
There are, however, other objections to this belief, as. for instance : -Why should not a manir rec sered from cholera be sub. ject to continued daily accessions? This I confess myself unable to explain, but such is the case with many other diseases, such as ague cured by bleeding ; and it is not always the case in cholera, though the character of the accession may differ. It would be too much to attempt to explain everything of what is confessedly so obscure, that even the smalleit contribution to its history is looked for with anxiety; but while upon this subject, I may merely mention one point of observation, which, if more extended experience tend to confirm it, may ad in explaining the natural mode of care in cholera. This is. that in all forms of quotidian ague with which I am acquainted, there appears a marked tendency to run a course of three davs; and you will find many recorded cases of cholera which will bear this interpretation, where, after three accessions, or, if you please, threc days' continuance, of the symptoms of cholera, the coldness and purging cease. Thus, a man has purging one day and gets bntter; next day he is attacked with algide cholera, he struggles through this, and there is imperfect attempt at reaction, but the purging, cramps and co'dness, again become severe on the third ;if this day's accession be not fatal, he goes on into the stage of consecutive fever on the fourth day. Many cases appear to confirm this view, and many to oppose it, as may very naturally be expected for it is by no means easy to distinguish the effects of the very active treatment pursued, from those of a very active disease.

In treating of cholera, one of the greatest difficulties arises from its unfortunate and most inappropriate name, which would seem to point to the diarrhra and disturbance of the bowels as the essential part of the disease; and if we look merciy to ropular opinion, and to that countenanced by documents issned by authority, it would appear as if no rocm were left for doubt upon this subject, and that the great matter to be attended to in the cure, is the arrest of diarhea. as if that were an invariable symptom, and the most imminent source of danger. It is undonbtedy very right in ponular treatises and directions, to fix public attention on this symptom, because in the epidemics best known, this has been one of the most frequent early effects, and it is well that it should be looked upon as most dangerous, and as a good reason for applying for medical aid before worse follows; but it does not become the professors of medicine. as a science, to adopt such an opinion without examination. We have endeavoured to shew, hat. according to particuler circumstaners, of which we are ignorant, a very considerable derangement of a part may exist without that gencral disturbance of the whole capillary sysiem. which we dberve in the cold stage of ague or a confirmed attack of cho'era.- that exudation may at one time take place from the bowels; at another into the cellular texture of the bndy generally or local:y; at another, that this jeculiar condition may chiefly effect the cerelral system, with exiremely little or no evidence of the capillary circulation of the extremities partaking of the influence.-that in fact, the force of the disease may at one time be directed on one class of organs, at another on another, just as we witness the fiver of one year to be attended with ulceration of the ilcum,-ol another in the colon,--of another with pneumonia,--and yet, another with cerebral affection, \&c So when we come to consider the different modes in which the system may be and is affected by the impression of a choleric influence, we shall find it producing the same effect on the general capillary circulation, and the same
consequent congestion of the interior organs; but we shall observe that this oppression does not always seek the same mode of relief, although the end attained is still the same-viz.. dimini.hed quantity of the venous blood; and that it does not uniformIy expend its force by the exudation into the intestines, which is the form we are most fam liar with, but that in like manner exudation will take place into the serous tissues and from the skin. These are mv reasons for not insisting so much as is usua! on the diarrhcea of cholera. Even those authors who lay much stress on this symptom, constantly inform us that the most malig. nant cases are those in wbich there is neither vomiting nor purging; such. for instance, as those extreme cascs which almost always occur on the first arrival of cholera in a district, where the patient is seized with sudden pain in the epigastrium and expires in a few minutes, with the word "water" on his lips, but without either vomiting or purging,-that is to say, without the more ordinary means of relief to the congestion having come to the aid of the vital powers. Thus, Mir. Yarkes, who is one of the most recent authoities in cholera, but whose views are very different from those now advocated,"says:"There is no one who has seen much of cholera who does not know thal, exclusive of the mildest forms of the disease, a case with little vomiting and purging is more malignant and more rapidly fatal than one in which these are prominent symptoms;" in other words, this might be expressed, that where natural relief tosthe congestion does not take place, the congestion proves more fata.: Premising then, that we do not look upon purging as essential to cholera, but orly as the most common mode of relief to the circulation, and that it takes place earlier or later in the stage of congestion, according to the peculiar tendency of the epidemic sind condition of the individual attacked, we shall trace the orainiary course of the first stage of cholera up to this point, passing over those cases of diarrhcea in which it would appear that the relaxed condition of the enteric vessels proceeds so parri passu with the general tendency to congestion, as to prevent any verious amount of internal congestion from occurring, such as is very frequent in the first day's attack of cholera, and from whish many recover without passing into the algide stage.

When a man is altacked with cholera there is something in has appearance, which another, who has had exp rience, may recognize, even before the patient himself is aware of it; there is a sunken clay-coloured cast in his features; he looks stupid; perbaps has slight dimness of vision, or dullness of hearing ; his hands look shrivelled. the nails blue, and veins on the back of the hand are dark and contracted. like lines traced with ink up. on the skin; it is cold and damp to the touch; if you look at the tongue you find it clean. pall:: and watery, as if macerated till deprived of blood, and the conjunctiva is bloodless. He. perhaps. now feuls a sudden but slight pain dart occasionally through the lift breast and arm, and if you press against the epigistrium. especially over the spleen, he complains of pain; he has then sudden call to stool, perhups vomiting, or according to the character or type of the disease, there may be intense pain and sense of burning in the stomach, \&c. Let it suffice for the present to trace the course of these symptoms up to this point.

The shrunken condition of the skin indieates the state of the peripheral capillary circulation, and when the minute vessels reject their blood, it accumulates in the vena cava, overciarges the right auricle and ventrick, and interfercs with their action; it distends the spleen to its utmost capacity as the reservoir provided by nature to relicve the circulation when oppressed by too great accumulation of venous bloud. Hence pain referable to the heart, and that produced by pressare on the spleen ; the pulmonary capillaries partake of the inaction, and resist the passage of blood through then, the accumulation of blood continues from the exterior, and the inferior cava is so distended that it is impossible for blood to enter it by the renal veins; the circulation of the kidneys being thus sispended, their'secretion is arrested, honce suppression of urine. Still blood accumulates which cannot revert through the well-valyed vins of the cxtremities, and it must go somewhere. The portal circulation already oppressed, so as to prevent the secretion of bile, now yields still further, and the blood is forced back in a retrograde course nlong the mesenteric veins till their minutest terminations on the villous coat of the intestines are injectod as with a syinge, and their natural antion is at an ond; a littio more ulad entages to mite tho watery partiolea

limm which gives that peculiar character to the cholern-evacuation that has been so aptly described as the rice-water purging. No suoner, however, has a large eracuation of this kind been pru. duced, than inmediate relief is, in the great majerity of rases, experienced by the heart which had been struggling with the load of blood that oppressed it ; the same effict is prodused directly which we endeavored to produce indirectly, hy opening the exter. nal veins, and the heart is thereby enabled to overcome the resistance of the capillaries (alresedy, as I thinik dispused to relax.) thus a natural cure is often effected, which the well.timed admin. istration of a stimulant mav hasten and confim. If, however, this first evacuation of the fluid particles of the blood does not suffice to give relief, the same efiect of increased congestion and attempted relief by purging takes place again and again, till the power of roaction ceases, and the patient dies in the stage of col. lanse. Perhaps, however, he is more fortunate, and thangh in. effectual to produce comylete reliel, and restore the power of the circulation, these frequent drainings of the interior veins may suffice so far to relieve him, that the congestion dues not destroy life, and thero may yet be sufficient blond pass through the pul. monary capillaries to maintain life througla this emergency, and so far to restore more natural action, as to permit of something ap. proaching to repose to the patient from bis sufferings, and partial return of the organs to their natural functions. This would doubtless proceed gradually to reaction, and sometimes does when there is no fresh accession of capillary disturbance to renew the congestion, and the consequence :s the low form of fever alluded to; bat unfortunately there appears to be a tendeney to relax, which my observation leads me to believe occurs just Lwenty-fyur hours after the first commencement of capillary disturbance, the weakened powers row murc readily yield to the oppresion, and about the twenty-sixth or twenty-cighth hour is one of the mnst frequent periods of death in those who have eseaped during the firsi eight hours. After this the period of death must he incertain. I find that Mr. Parkes gives the average period of dath in forty. one cases as twenty-seven and a half hours from the commence. ment.

Having now considered the subject of congestion at great length, -first, in its probable rrigin; secondly, in the effects on the pcripheral circulation ; thirdly, in the ceffects and symptoms of the distension of the thorasic and abdominal veius and viscera; and fourthly, the artificial and natural means of mechancal relief and cure, we have now. I think, only to consider the symptoms of recovery and of death in cholerat, and of the post mortem appearances, before we procecid to the ardical part of the treatment.
The symptoms of the discase, if traced iat their natural order of succession, are as follow, and thuse of recovery these reversed:-

1st, Constriction and bhodlessnoss of the capillaries-of the skin first, and afterwards of other organs, with coldness of sur. face.
2nd, Oppression of the heart and pain in the epigastrium.
3rd, Suppression of urine.
4th, Suppression of bilc.
5th, Vomitmg or parging-one or both, or neither.
6 th, Mus ular spasms in comnection with spasmodically con. tracted colon, and with the state of the bowcls.
7th, Especially where the purging has been atisent or scanty, tetanic convulsion of the whole body, from the influence whicli at first was confined to the circulating system, proceding unwards to attack the nervous system, as the circulatirn of arterial blood ccases.
8th, Death by merc cessation of action of the tieart, \&c.., or by affection of the nervous system in tetanup, of loo 'h combined.
9th, Returning warmh to the skin after death, which in life had becu icy cold. This, as far as my own experience goas, is always the case, comneneing in the exiremitics, but, perhaps, does not occur so remarkably when purging has been very lollg continued, and the disease mach proluiged. Of this I cannot syeak witi certainty. Pativi return of warmth to an wolated part of the body is mentioned by several authors as a sign of extreme malignancy in the attack, and a certain forcrunner of death. In all the ceases where 1 have witnessed death from a rapid attack of cholera, whether in this country or in Persia, whicro there was, either no purging, or whice it had soon ceased, I cobserved the fept begin to get warm somo minutes before death, and sometines the warmth sproad ozen above the znee; while the thighs and

as a sign of death, beginning in the extremities, and I have invariably observed, that after the occurrence of this symptom, the ieast interference was apt to induce tetanic convulsion. I have trice attempted to draw blood under these circumstances, but am now cenvinced that this symptom always is a sign of death, whethre the patient appear to live or not, and I feel mueli in clined to consider that bop: still easists so long at this symptom is abeent. We shall again allude to the subject in epeating of the trealment by heat and coid.
Post mosien snasms in the miseles not uifrequently becur, cven toine hours after death. There do not appear to he the mere effect of relaxation of spasmodically contracted muscles, but rather resemble the jerking spasens produced by galwanism on an animal recently killed, und are probitly intimately connected with the cause of warnth returning to the corpse, which in life had felt icy cold. and afford some reason to believe that the condition of the cepillaries produced in life by cholera is unt a mere cessation of vitality in them, as we have emsidered it; for the cold, where purging is scanty, exceeds that of any dead body, in. somach as to surgest a question, whetber the chemical or electrical actions in the capilharies wheh belong to health may not be not only impaired, but uetually reversed in the discase, and heat absorbed instead of being cyolved.
On opening the body after death, the appearances are exactly such as we should capect from the symptome. The rigint sice of the heart is found gorged and dilated, the dilatation and softness of the coats being greater as the caso has been more protracted. This supeni:r and inferior cava, and all their harger branches, are boaded with derls, tarry, half-coaralated blond. The minute vessels of the lungs are empty, and the parenchyma often shrivelled and contracted, being pale on the surface, while the pulmonary artery is quite full of blood. The left side of the heart is conl. tracted, and cither empty or contains firm congala, indicating a greater amount of life in the arterial than venous biood, which furms no solid congulam; and the contraction of its auricle and ventricle a less amount of exhaustion of the muscular fibre on the left than on the right side of the heart, which is nabby and dis. tended. The anount of congestion of the portal circulation, \&c., is alwaye considerable in the large vessels, but the smaller ones are morc pile and hoodless in eases in which there has been much exndation. The gall bladder generally contains bite. The spleen is common!y congested, hot sometimes found empty, which: is, probably, a post-mortem effect of its peculiarly elastic structure; when death takes place from consecutice fever, howeve., it is eoft and friable, an almost invariable condition in death from malarious poisoning by tropical fever, \&e. The intestines present a peculiar appearince, the colon much contracted and empty, the small intestines containing liuid similar to that passed ia life, mixed with a denser material, probably the fibrin and albumen, in peculiar eisenical comhination from which, the more fluid part of the blood had been drained off, the sub-mucous coat is distended in differ fuces with the same material, sumetimes mixed with broken.down red ghobules. The kidney is nearly normal, and the bladder contracted; the bratin zeldom presents anyihing pecular. These appcarances require no comment beyond that which has preceded their description in relation to the symptoms.
It would appear, then, that congestion and oppression to the circulation is always the catse of death, and that congestion is a consequence of disordered capillary circulation. We have sufficiently discussed the modes, hoth natmal and artificial, of relieving this congestion, but as yet wo have left the mearsi of removing its cause in the capillary eiredation altogether maconsidered, aithouch it is periectly evident that this must be the main object of raedicial treatiment. 'The patient' is cold, nothing can be more natural than to try to warm him; and the circulation being nearly at a stand, what is more natural than to rouse it with a stimulant? But then he is cold only to our sensations, not to his own; he is burning and suffocating, and camot bear even clothing, much less extemal heat; he is craving for ice and cold water, and the hot stimulane draught which we force upon him is torture; he $: s$ vomiting, yet anxious to drink.
Are we then to treat him according to our sensation or to his? - 0 torture him or indulge cravings that sppear to us so opposito




These are questions of which we shall defer the consideration till our next meeting -Prov. Medical and Surgical Journal.

## SURGERY.

Description of a Simple Truss in Congenital Hernia.-Mr. Conates, after noticing the diffeculty in matutaining a truss or bandare in position, in the case of infans, mentims a simple contrivance, from which he has expesienced uniformly good results.
It cousists of a skein of Berlin wool, which is made to encircle the pelvis, one end passing through the other at a point correspondmy with the inguinal ring ; the end thus passed through is then carricd between the thighs, and fastenci to the cincturo behind. This can be worn at all times, and replaced and cleaned with litile trouble, and, mure, ver, is not likely to gall the tender skin of the litte paticnt. - Medical Guzette, Sept. 29.

Cutheterisn of the EEsophagus in Cases of Stricture. By M. Trousseace- This mode of treatinent, which was revived by in. Gendron (Retrospect, p. 63), is highly recommended also by M. Troussean, who has seen several cases successfully treated by M. Bretonncan, and publisics two cases from bis own practice. He uses a delicate whalebone rod not more than a line in diameter, and from twelve to sixteen inches in length; at euther end of this is fixed ath oliveshaped difutor, somewhat straitened in the middle, so as to permit of being surrounded by a piece of dry sponge, which is fixed on with sealing-wax, and is made very slightly greater in diameter than the stricture. The sponge is further secured by a thread, the ends of which are left eight inches in length, fur a purpose to be presently mentioned. After moistening the sponge with yolk of egg, it is passed beyond the isthmus of the fances. Traction is then made on the threads, by which means the end of the instrument is made to take the direction of the esophagus instead of striking the back of the pharynx. So soon as the stricture (which is generally at the level of the larynx) is felt, the instrument is pushed onward, with some force and a rotatory motion, the left hand being used to support the larynx, which would otherwise be pushed down, and would carry the esophagus with it. It is of importance to pass the ob. viacle as quichly as possible, otherwise the presence of the foreign body is apt to induce suffocation." When onee the passige has beca enected, the spouge is again retracted; and this is repeated a sccond, and perhaps a third time, before finishing the operation. The operations may be repeated twice a-day, gradua!t ir.areasing the size of the sponge; and, when the passige is so large as rea. dily to admit a sponge of the sizo of an ordinary bolus of food. the intervals may be much loriger. $\because$ treatment should be kept up in cases of long standing fir several months, or a year ; in moro recent cases a few wecks are sufficient. M. Troussean has tried in one case the cauterization by nitrate of silver, as recommended hy M. Gendron; bat he does not recommend this measure, belicving it to be in the exsphagus, as in the case of the urethra, seldom requircd.-Revue Médico-Chitr, March, 1848.

It is worthy of remark, $1 .$. itimost all the cases of strictured cospohagns in which this mode of treatment has been of service, have been traceable to diphherite, This may explain the invariably hugh seat of the stricture. Hi strictures with lass of substance, as also in many other cares mentioned by Sedillot (Retro. spect, p. 69), catheterism would L . availing; and cauterization in such cases whuld be a very unsafe procecding-monthly Jour. Med. Science.

Iodide of Potassium in Terliary Syphilis-Dr. Flaga, in the Charleston Medical Jcurnal and Review, for May, 1848, has published some ubservations, principally taken from notes of M. Ricord, during the summers of 1846-7. Dr. Flagg remarks :

Iodide of potassium is the remedy specially applicablo to fertiary syphilis in all ils phazes, If administration may ho commeriood by of doso of sbout seven grains, given threa

result, the dose* may he increased by seven grains, every three days, until it amounts to four scruples, beyond which it is seldom necessary to go.
When, however, the symptoms are urgent, tending rapidly to the destruction of important parts, or to material interference with their functions, much larger doses are requisite in the beginning. We should, under such circumstances, commence with a scruple three times a day, and may be obliged very much to increase even this. It has been necessary to give as much as an ounce and a quatter in the course of twenty-four hours, hefore a curative action could be nbtained; and even twice the quantity has been given in the same time.
As adjuvants, bitters are very useful, and the patient should be kept on a highly nutitions diet.

It is a very serious error into which some have fallen, in supposing that a patient laboring under tertiary syphilis should be subjected to a mercurial treatment before the administration of iodide of potassium. Tertiary symptoms appearing, the immediate use of iodide of potassium is peremptorily indicated. When, however, secondary symptoms co-exist with the tertiary, mercury should be administered simultaneously with it, and thus often, when neither of these medicines spparately avail, the two may be combined with the happiest effect.

The patient should be kept on the use of iodide of potassium during from three to six months, according to circumstances, even though the venereal symptoms should have disappeared; the object being to guard, as far as possible, ayainst a re-appearance of the disease."
Tbe following are some of the pathological effects observed occasionally from its administration. And which require for their alleviation the suspension of the medicine for a while, and such palliative treatment as the symptoms, from time to time, may wdicate.

1. Tumefaction of the gume - $\eta$ increased flow of saliva, and a saline taste in the moi ...absequently giving place to that of iodine; in short, a species of salivation, not unlike that of puerperal women, and unaccompanied by the coppery taste, erythematous inflammation, and tendency to ulceration, belonging to salivation by mercury.
2.- After large doses, pain in the cardiac portion of the stomach.
2. $\mathrm{S}^{\text {ryons diarrhea, unattended by febrile action. }}$
3. Excessive secretion of urine, and sometimes pain in the kidneys.
4. Symptoms of severe coryza, running at the nose, pain in the frontal sinuses, \&c.
c. All the symptoms of bronchitis, with the exception of rever and muco-purulent expectoration.
5. Different forms of cutaneous disease, among which we shall notice but three:
(a.) A species of acne, more acute than the ordinary kind, and not confining itself, like the latter, to the face, chest, shoulders, and upper part of the hack, but found even on the thighs, where, indeed, it seems at times to develon itself by pieference.
(b.) Eczema sometimes of a very grave type. M. Rieord relates a very interesting case, in which he was unable to continue the treatment by iodide of potassium ling enough to subdue the venereal symptoms, before the appearance of severe eczema would render its immediate suspension necessary; the eczema always subsiding, and the venereal symptoms, which, up to that time, would decline, making fresh progress whenever the medicine was discontimued. The brain was at length attacked, and the unfortunate patient succumbed, after many vibrations between the two forms of disease.
(c.) Purpura-M. Ricord supposes iodide of potassium to

[^12]exert on the blood a defibrinizing influence, favorable to the hemorrhagic condition, of which influence he regards purpura as an indication.*
8. A condition of the eyes resembling catarrhal ophthalmia, the lids becoming œedematous, and the ocular conjunctive elevated by serous effusion in the cellular tissue beneath it.
9. Augmentation of the secretive action of the mucous membranes, never terminating, however, in the formation of purulent or muco-purulent matter, unless a predisposition to inflainmation exist in the part. A discharge of purulent matter thus occasioned is met with oftenest in the mucous passages of the genital organs.
10. Cerebral excitement, evinced by a species of intoxication, and sometimes" cerebral congestion.-New York Journal of Medicine.

## MIDWIFERY.

$U_{\text {se of }}$ Chloroform in Midwifery.-Dr. Edward W. Murphy, of University College, Londom, has recently pubhished a parnphlet entitled, "Chloroform in the Practice of Midwifery," from which we extract the following conclusions:
" 1 st. It does not interfere with the action of the uterus, unless it be given in very large doses, which is never necessary.

2d. It canses a greater relaxation in the passages and perin. eum; the macous secretion from the vagim is also increased.

3d. It subdues the nervous irritation caused by severe pain, and restores nervous energy.
4th. It secures the palient perfect repose for some hours after her delivery. These three last effects consequently render an operation much casier to perform, and the rccovery of the patient afterwards much more favorable.

5th. The order of its effiects on the vital functions seem to be -loss of sensation-partial loss of voluntary motion-loss of con-eciousness-complete luss of voluntary motion-stertorous respira: tion-loss of involuntary motion-cessation of the action of the utcrus-of respiration-uf the action of the heart.

6 th. Its injurions effects, when an ordinary duse is given, seem to depend on constitutional peculiarities, or on improper manage. inent. Much excitement about the patient may render ber vio. lent. Catilepsy has occurred in some; clonic contractions in others. Some patients are slow in recuvering from the effect of a large dose; they reman giddy during the day, and sonctimes faint when they stand upright - New Xurk Jour, Med.

Letheon in Puerperal Convulsions, by S. N. Harmis, M. D., Savannah, Georgia.-On the 17th of April last, I was requested to visit Mrs. $S$ __, said to be in lahour, attended with convulsions. Dr. Morel, happening to be in my office at the time, sugrested a trial of the ether, and kindly accompanied me to assist in its admimistration.
Two days previous, according to the statement of her frients, the patient had experienced some hemorrhage in appearance and quantity similar to the menstrual evacuation, for which she nad been bled with the effect of arresting it. It was not until the night of the 16th, however, that her pains came on, and then but feebly and at long intervals. At about two $o^{\prime}$ clock, p . m , the next day, she was seized with convulsions, and a messenger was despatched for medical aid. The distance heing seven miles from the city, we did not arrive until five p. m.

Mrs. $S —$ is twenty four years of age, stout, and of ple.

[^13]thoric habit; the labour is a first one, and she is believed to tave arrived at the full period of utero-gestation; she has had three convulsions since two o'clock, each of which has been preceded by yomiting of bilious matter; os uteri dilated to about the size of a shilling, somewhat yielding, with a yertex presentation.
A few moments after my arrival she was seized with the fourth convelsion-of the epileptic variety. A fine sponve upon which about an ounce of the ether had been poured, was instantly applied to her mouth and nostrils; and in less than a minute the short, convulsive, sputtering respiration peculiar to epilepsy was completely arrested, and immediately followed by full, long, and deep inspiations, with a total cessation of all muscular agitation. The inhalation was continued a few moments ionger, and the sponge withdrawn. Half an hour afterwards the vomiting was renewed and I immediately bled her to the extent of thity two onnces; but the orifice was not fairly closed before ber frame was agitated by another fit. Etherization was immelliately renewed with the same suceess as before, but from the fact of their having been a smaller quantity of ether poured upon the sponge, its influence was not quite so promply mani-fested-sufficiently so, however, to indicate its remedial powers.
An examination of per-vaginam now discovered the os ateri more dilated and yielding; the membranes were ruptored, but only an ounce or two of fluid escaped. After maiting half an hour, and finding the cuntractile powers of the uterus still feeble, I administered twenty grains of ergot, and in fifteen minutes repeated the dose. Strong contractons now came on, and in a short time the patient was delivered of a healthy female child.
Etherization in this case was attempted in the absence of convulsions, but was imperfectly effected, in consequence of the ether having heen hastily washed, and thus irritating the lungs; but during the fits it was freely, nay eagerly, inhaled; and with the fifth convulsion, all her greater difficulies terminated. Some ten or fifteen days after", she was attacked with fever of an intermittent kim, logether with severe headache, but was easily relieved by heeding, a blister to the occiput, light purgatives and quidine. All are now doing well.
Remarks.-The foregoing case has been reported chiefly with a view to illustrate the effects of etherization in conralsions. Nothing could have been more entirely satisfactory; and its power and promptness in arresting the paroxysms were perfectly admirable, hence, in cases where all our hopes of successful termination are based upon the contol we have over the violence and duration of a paroxysm, is value as a therapeutical agent must be almost incalculable. In neither of the fits which occurred after our arrival was the duration more than three or four minutes, whereas in each of the preceding it was from twenty to thirty minutes. The general anaesthetic effects of the vanour of ether are too well known to require comment; but its application to the alleviation of the pains of parturition-particularly in preternatual and instrumental delivery-does not appear to hare been as extensive in this country as the writer is conrinced it deserves to be. In this city it has been applied to this purpose in a few instances, and, as I am informed, with the most material mitigation of suffering without any suspension of the contractile force of the uterus. : It is obvious, however that the remark of Professor Simpson in reference to chloroform may be equally applicable to ether, viz: that there is a point beyond which the inhalation cannot be carried without suspending uterine contraction. I presume through the extension of its influence to the centre of reflex ections, the spinal marrow. In convulsions, therefore, it moild be necessary to approximate this point more nearly than in simple uncomplicated labour, (supposing convulsions 15 well as uterine contractions to have their origin, directly
or indirectly at the centre of reflect actions; ) and in the case detailed above, it was my impression that some retar:ing influence was exerted upon the contractity of the uterus. Of this however, I cannot be certain.

I may remark further, that I am of opinion that in every form of spasm, tonic or clonic, the inhalation of ether may be considered as indicated, and believe that it is entitled to a place among our most valuable therapeutic agents.-Charleston Medical Journal.

## MATERIA-MEDICA AND CHEMISTRY.

Death from Inhalation of Chloroform.-Tua case which seems to bave made great impression upon the public mind, is that of Eanuei Budger, Esq, Solicitor of Rotherham, Yorkshire. It ap. pears frum the evidence given before the inquest, that this gentlerian applied in Mr. Rulineon, one of the most skilful dentists in London, and who has had the most extensive experience in the administation of anmethetic agentz, (he stated in his covidence that he had administerd anasthetic agents in at least three thousand casea,) to have some teeth cxtracted. Mr. Robinson put only a dracim atd a hatf on the sponge of the inhaler. The instroment was ant held clase to the mouth or face-the deceased thad not inhaled it more than a minate, when it appeared to have so slight an effect, that he requested to have the vapour made strmece. Befure tbis could be done, however, the head and hand of the deceased dropped-i. e., in one second after he had spoken in the aperator. A period of about five minutes elapsed frum the time at whicis the deceased entered the surgery to his death. When seen by Dr. Waters, who had been sent for immediately afterwards, the face was livid, the pupils dilated, and the ternpe. rature of the body lower than natural. The foliowing were the post-mortem appearances:-
"The bod y was well formed and muscular; the acek plethoric and rather short; countenance of a bluish hivid appearance; eyes [pupils?] dilated, particularly the left; chest weil formed, but generally dull all uver on percussion. particularly the right side; parietes less resonant over the heat's region than in the natural state. Abdemen piominent, from a deposition of fat; dullin ss on percussion, extending into the right iliac region; lower extremities not cedematous. On dividing the ecalp there was observed some turgescence of the vessels. The membranes presented a congented appearance all over the cerebralmess; there was nothing abnormal in the cerebrum, nor any cffusion into either ventricle; the surfaces of the corpora stiluta and optic thalmi were elightly congested; the cerebellum and pons Varolit offesed nothing remarkable. On raising the sternum, observalior as made of the very small diameter to which the chest was reduced, for it was found that the lungs and beart were puahed upwards to a line extending between the third and fouth ribs; the la:tgs were healthy and crepitant throughout their entire extent; there were some adhesions on the right side of long atanding, but no marked congestion.* On dividing the pericardium, no undue effusion of serous fluid was found. The heart looked of a pater colour than usual, and was flaccid. but was not in a hypertrophied or dilated condition; some spots of adipose matter were observed here and there on its surface. On dividing the left ventricle, its walls were found thinner than natural, and its tissue was interspersed with ' fatty' degenerescence; this morbid state was particularly observable at the apex, where the muscular tissue only measured about two lines, and the abnormal deposition was very evident at this point; the right ventricle and septum offered nothing remarkable, but the le. sion of secretion alfeady observed; both ventricles contained clota of dark grumous blood. The inaer surface of the aorta felt rather rough, and the mitral valves were uncqual at their edges, with some slight regosity; on dividing their base, the lissue was hard, and made a grating noise under the sca!pel. Abdomen: The omentum was loaded with fat; stomach not distended by gases; liver preternaturaliy entarged, and extending upwards in a line be. tween the third and fourth ribs; it was of a pale brownish colour, and in some parts almost approaching to a dirty white; this wan

* In his evidence at the inquest, Dr. Waters atated that the lungs presented a little sign of congestion.
particularly observabic in the Spigelian lobe, where the fatty de. generescence was very evident; there apreared to be no other change of structure. It weighed eight pounds. The othei organs of the abdomen were healthy."

The editor of the London Medical Gozetle, in rommenting on this case, remarks: "Tne unfortmate case of Mr. Badger is suf. ficient to show that even thry who are most experienced in the use of this agent, are not always alle to discriminate those cases in which the inhalation of the vapour is likely to be attended with fatal effects. The deceased was a healthy, muscular young man, who, according to the testimong of his father, had suffered from no difficulty in breathing, or any other apparent discase. The mspection of the body, however, revealed a discased state of the heart and liver, although not sufficient to account for sudden death. Hence we arrive at the conclusion that a young and healthy.looking person, whose a mearance and previous habits of life would create no suspicion of latent o: ande divease, may still be in such a condition of body that the respiration of the vapour will operate upon him like a fatal puism. It is not here as with a liquid or solid taken into the stomach - the pison riters at once into the circulation, and penctrates throngh the whole of the system; and but a fuw minates clapse between apparentiy perfect beath and the death of the patient. The circumstances under which the poison is administered, do not, in these unfavourable cases, udmit of the application of any remedy. The aitempt to abstract blood has uniformly faifed. Art is powerless in dealing with the possonous effects of this vapour. It may be said, and we doubt not the truth of the staturnent, that hundreds, nay thousands, of persons, young and heallhy-hoking like the deccased, have in:hated this vapour without any such disastrous effects following. We have, however, heard of st .... sery narrow cscapes, even where precaution and skill of the $u^{2+1}$ trind had been employed in its administration; and drubtless the experience of many of our readers will furnish them with cases corroborative of this remark. But the death of one person in a thousand, when the vapour has been skilfulty administered-and there was nothing in the patient's aspect ar account of himself to induce the operatur to withhold his consent io its cmplogment-bece wes a most scrious mattor. There shou: - be some extraordinary advantage or benefit to the individual to justify súch feaful risk; but the advantage, if any, in reference to the dental art, is the atleviation of pain morely fre a few minutes; and the naked question now to be considered is, will any operator feel himself justified, after the case of Mr. Badger, in eni. ploying this dangerous vapour for the annulling of pain in the extraction of teeth? If latent discase of the heart or liver could alsays be clearly diagnosed in a patient, we ehould not be called upon to put this questron; but as Mr. Badger's case proves that a most experienced man, like Mr. Rulunson, saw nothing about the deceased to justify his refusal to empluy chloroform, it is clear that the most skilful dentist may be working in the dark, and thus unconsciously be the means of sacrificing life for the sake of hamouring a patient by annulling a degree of pain which every healthy adult should be able io bear. The facts of this case have, however, a bearing far beyond dentistry. We consider that oir remarks apply to all the minor operations of surgery." Lond. Med. Gaz., July 14, 1818.

Death from Chloroform in India.-Tbe following case occurred at Hyderabed, India, and is related in the words of the operating surgeon.
"A" young woman presented herself this morning with disease of the distal phalanx of the middle finger of the left hand, requir. ing amputation at the middle joint. As she appeared of timid disposinion, and exhibited more than usual reluctance to submit to the little operation, I administered a drachm of chloroform in the usual way, namely, by sprinkling it on a pocket handkerchief and causing her to inhale the vapour, She coughed a litte, and then gave a few convuisive movernents. When these subsided, I perfurmed the necessary incisions, wheh, of course did not occupy more than a few secunds. Scarcely a drop of blood cscaped. The patient was then, put into the reciunbent posture with the head low:' Achive means were taken to bring her out of the state of coma, into which she had apparently fallen. But although these means, including artificial respiration, were perseveringly employed for five hours, the unfortunate womain never brenthed again: I am inclined to think that death was almost instantane.
ous; for after the convulsive movement above deseribed, she never moved, nor exhibited the smallest sign of life. No opportunity was afforded me of making a pot-mortem examination; so that it must forever remain a sccret whether or no there were any epe. ciai circumstances, such as ancurism of one of the great vessely, or discase of the heart."
[The chloroform was supplied by Mess's. Twemlow \& Co., Bombay. It required a drachm and a hali of the same chloroform in another case to produce a slight effect.]-Lond. Med. Gaz., July 14, 1848.

Fatal effects from Chloroform.-Alr. R. O. Johnston states, (Prov. Med. of Surg. Journ., July 26:h,) that he has "seen two deaths from chlorolorm; one mati was in cmvulsions for forty. eight hours after the operation, and afterwards expired."

Adulterated Medicines.-Extract from Dr. Edward's Re. port on Imported Aiultcrated Drugs. Medicines. \&c., read before the House of Representatices, June 2d, 8i8.-Composed, as is your commitiec, of a majority of men who have made the study and practice of medicine the cibic? purpose of their lives, they feel no lesitation in admiting that the facts they are about to subuit were but partially known to them, individually, until a very recent period. They have had before them tpecimens of the adutterations of which they speak, and ask a generous confidence in their statements.
In consequence of the stringent laws now in force in most patts of Eurore, regulating the trade in drugs, and the dispensing of Mediciase, nonc but genuine articles, and those of acknowledgea strength and parity, are allowed to be used or purchayed. All inferior ant detcriorated drugs in a crude state, as well as adul. terated medicimal and chemical preparations must, therefore, as a matter of necessity, find a market elsewhere; and that market, unfortunately for the peeple of this country, has long been and still is found in these Uuited States.

For a long series of years this base traffic has been constantly increasing, antil it has become frightfully enormous. It rould be presumed, from the imnense quantitios, and the great variety of inferior drugs that pass our custom-honse at New York, in the course of a single gear that this country had become the grand mart and receptacle of all the reiuse merchandise of that description, not only from the European wachouses, but from the wate eastern world.
On reforence had, not long since, to the custom-house books in New York, it was foind that 7,000 los, of rhubarb-root had passed within nincty days, not one pound of which was fit, or even safe, for medicinal purposes. Much of it had hecome greatly deteriorated by age, was worm caten and decayed, while other portions, notwithstanding they showed a somewhat fair appearance externally, (the colour, \&c., having been brightened by artificial means for the purpose of deception,) gave internal, unmistakeablo cridence of the virtue of the root having been extracted by previous decoction, for the purpose of waking what is sold as the "extract of rhubarb," and thereby rendering it of no further value for medicinal use. This article was invoiced at from 23 pence sterling, ( 5 cents) to 7 pence ( 14 cents) per lb . The price of good rhubarb at the place of production, has been, for several ycars past, about as follows:-The East India, from 35 to 45 cents per lh., according to corcumstances; the Turkey or Rus: sian, from $\$ 125$ to $\$ 250$ per 1 b ., exhibiting a very wide difference in price, as will be perceived, between the good and refuse article.

Another of our mole important articies of medicine, particularly in the newly-sculed portions of our country, comes to us in large quanities entirely unfit for medicinal purposer; but like the worthless rhnbar! root, is cayerly botaght up at auctom sales by unprincipled druy dealers, and sent to the drug mills, where it is ground and poivdered, the colour, smell, and nutural tate imitate, and afterwards sold to comentry dealers and others as a goud article.-The result of this is, that it is finally dispensed to the sick, at the sacrifice, doublles, of many valuable lives cyery year ; we mean the Peruvian bark.
Several varieties of this bark are used in medicine, viz., the "ycllow," the "pule," the "red," \&e., but either variety cant scarcely over be obtained, ut the place of production, of good quality, and in good condition, at a less rate than from 30 to 40 cents per pound; and the quality generally used for the manu-:
facture of sulphate of quinine, or the salts of Peruvian bark, has not for years been obtained from those parts of South America where it is produced, at a less price than from $\$ 00$ to $\$ 80$ per quintal of 100 pounds. The worthless artiele, particularly referred to abuve, comes principally from Eurnpe, and seemsij to be made up of the different varieties already named, as well as to be in a greatly deteriorated condition from age, or from having had its medicinal virtues cxtracted, for the purpose of making the extract of Peruvian bark-a valuable medicine.

From appcarances, it consists mainly of refuse material collected together, in foreign warehouses, for exportation. It is invoiced from 2 to 7 cents per pound. Thousands of pounds of this trash have passed through the New York custom-house, at the above price, during the past year, and may justly be considered very dear even at those rates.
Columbo and Gentian roots, and many more of the important cunde drugs, come to us in a similar worthless condition.-Newo York Journal of Medigine.

Liquid Indin-Rubher as Sticking Plaster. By Mr. Dovglas Fox.-If liquid India.rubber, spread upon calico, or other material, by a stiff brush, or by a knife, be used as adhesive plaster, it will be found to answer far better, in almost every case, than any other adhesive material, as it sticks firmly, is pliant, produces no irritation to the skin, and will bear lotions, or washing over it. It is also most valuable in cases where the skin requires ;a soft plaster of an unirritating nature for its defence, as in old persons, or others long confined to bed. In such cases, it is better to use either soft leather ot the vulcanized India-rubber, made in thin sheets; the latter, from its elasticity, is often the best, as it stretches with the skin on every movement of the body. To many kinds of wounds, from operations or otherwise, strips of thin vulcanized India-rubber, spread with the liquid, will be found invaluable as clastic adhesive plasters, as they become firmly attached to the skin, and give way to all its movements. But should any wounded part require a portion of the plaster to be non.clastic, as in the case of operation for hare-lip, \&c., then, in order to secure such part from being stretched, a short piece of calico, about an inch in length should bestuck upon the middle of the elastic plaster, by which means that portion would become stationary.

If a circular piece of thin valcanized India-rubber, about two inches in diameter, be spread with the liquid, and applied on the abdomen of an infant having umbilical hernia. and a common bandage, such as is gencrally used for infants, be passed lightly round the body, the profusion will be instantly checked; and if the same plaster be again spread with the liquid and re-applied, when it comes off from time to time, no trouble will be experienced by the infant. It is not necessary to use any pad or compress.

The above statement will give a general idea of the subject the materials may of course be used in a vast varicty of form.Lancet, Feb. 7.

On Muriate of Opium,-By.J. G. Nichol.-During the last ten or twelve years I have made and prescribed a solution of opium, which I think is not mentioned in any work on Materia Medica with which I am acquainted. I use powdered Turkey opium and water, pretty strongly acidulated with muriatic acid. I have found, by experience, that this is the best anodyne I am acquainted with. I see. by Dr.' Percia's Materia Medica, that mention is made of Dr. Porter's solution of opium in crtric acid. 1 made and nsed the same sort of preparation ten years ago; but it did not answer. It caused a great deal of headache, and other unpleasant symptoms: moreover it became muddy, and appeared to be decomposed ; therefore, I gave up using it. I have called this preparation of mine Muriatic of opium, but perhaps it is not a very correct name. I may mention that I prepared solutions of opium with acetic, nitric, sulphuric, citric, tartaric, and muriatic acids, and also prescribed them, but the muriatic solution was vastly superior to any one in every respect. All of them produced headache except the muratic. I prefer muriate of opium to the tincture. wine, or powder of opium, and also to the muriate and acetate of morphia; in fact, to any other preparation of opium. It never makes any headache, but all the other preparations do.

My preparation is made according to the following formula :
Take of the best Powdered Opium, oz.j.
Muriatic Acid, oz j.
Distilled Water, oz.xx. Mix.
Shake this mixture very frequently every day, during fourteen days, then strain and filter. The dose is from twenty to forty drops, according to circumstances. Many of my medical friends have tried this preparation, and they highly approve of it.-Dublin Medical Press.

# THE <br>  

MONTREAL, JANUARY 1, 1849.

## THE CHOLERA, AND MEASURES OF PRECAUTION-

In pursuance of our subject, we will now indicate the precautionary measures which should be adopted. This matter of enquiry, naturally resolves itself into two sections-the one of a general nature, the other special ; the one having reference to general sanitary measures, the other to those appertaining to individuals.

And first, with reference to the general sanitary precautions. As it has been demonstrated, in the most ample manner, by repeated and widely spread observation, that the disease will manifest itself with greatest virulence, and will predominate to the greatest extent, in close, ill-ventilated places, and wherever impurities, whether of animal or vegetable origin, exist, it follows that the utmost solicitude should be exhibited in regard to drainage and cleanliness. Public authorities, therefore, wherever they exist, should direct early attention to the state of the sewers and drains, to improve their condition, if necessary; to ascertain that they are pervious; and to enclose in a proper manner, those which are open and exposed, with the intention of checking the escape of noxious effluvia. Not only should the strictest attention be directed to these matters; but it becomes an equally imperative duty to prevent the deposit of decaying or decayed animal and vegetable matter within the city limits, during the winter season; and not only this, but to cause the removal of all such accumulations, wherever they may be found to exist within the limits specified, and in the neighbourhood of dwellings. And there is a third duty which especially devolves upon the civic authorities, attention to a thorough system of drainage. Wherever accumulations of water are to be found, there malarious exhalations must, to a greater or less extent, prevail, whenever the summer's sun produces its usual effect upon them. Doubtful as the dependence of the disease may be upon malaria, as effect and cause, yet there can be no question that the moist atmosphere which invests such sifuations, is highly farourable not only to its derclopment, bit in itepropa-
gation; and, consequently, a system of drainage, efficiently and scientifically carried out, becomes at this moment, an object of critical importance.

Irrespective of these duties which devolve upon the local authorities, there is another of not less general moment-the enforcing of cleanliness in dwellings and houses, gencrally. The lower classes are proverbially negligent, in this respect. Their dwellings are, very generally, in the most filhy condition, apt receptacles for the poison, and apter places to increase its virulence and aid in its dissemination. It is not too much to say, that the police, or other parties, to whom the power should be delegated, should be instructed to inspect: all such dwellings, and insist upon the due observance: of cleanliness, causing them all to be thoroughly whitewashed, under penalties in the event of disobedience. With these necessary and proper precautions, we hesitate not to affirm, that the disease will be divested of much of its virulence, and its contagious character, almost, if not entirely annihilated.

2 d . With reference to personal sanitary precautions. Intemperance both in eating and drinking should be avoided: The benefits derivable from the use of spiritous liquors, even in moderate quantities, is very ques. tionable at any time, but becomes especially so, during the prevalence of cholera. All malt liquors, more' especially. when tart, and ginger beer, as well as other summer beverages of an acid nature should be avoided. $W$ We would advise no abrupt or sudden alteration of habits, but we would especially enjoin temperance.- Diets should be plain, nutritious, and casily digestible. The use of unripe vegetables 'should be avoided, such as melons, cucumbers, \&c.; but there are some with whom the moderate use of green vegetables is essential to the maintenance of health, and to whom the use of them, when well cooked, may be safely permitted.: . As far as diet is concerned, this rule may be safely acted upon, to live in that manner which' has previously been found most conducive to health: . : Severe fatigue, and long fasting, with irregu? lar'sleep, are to be shunned as likely to induce es. haustion which would predispose to an attack The clothing- should tie: comfortable and, warm, and

- if at any times or in any part damp, should be sm: mediately changed. Personalscleanliness is at all times dosirable, but is especially lèneer of cholera- Such are the simple measures which we wouldrecommend for general adoption; and their main olject is to preserve the hody in a state of as perfect health as possible, avoiding excesses of all kinds, and abstaining from overy thing likely to derange or impair healthy digestion.

Cholera most usually manifests itself by premonitory signs, of which diarroce is one of the most prominent. "This may exist even for days before the disease is developed in all its intensity. To such a fact, would we invite especial attention, and it becomes invested also with the greater importance, when it is recollected that the disease is in a very large majority of cases perfectly manageable in this its"early stage. It is not our intention to lay down rules of treatment. En. professional persons are the worst possible judges of proper remedial measures in their own cases. We think that the published detail of prescriptions in an in. discriminate-manner, especially when they contain opium, calculated to do more harm than good: and taking this view of the case, we would rather advise an imme. diate consultation with a physician:-this is by far the best method, and in the end will prove the most satisfactory to the patient.
Thus far, have we written for the public. A word now to our professional brethren. Our pages will contain, for their information, the treatment ndoptal in the disease by the profession elsewhere ; lint we believe there is no record of what has proved during the visitations of 1832 and 1834, the most successfil practice in this country. The treatment by calomel and opium, which proved so suscessful in this city, appears to have been as unsuccessful in Great Britain, and this whether the former was given in large or in small doses. . The results of experience have here confirmed the utility of such practice. One medical gentleman of this city pushed it, and successfully, to the cxtent of $100 \mathrm{grs}$. in five hours-the first dose only bieing combined with opium. Others again, were successful with smaller quantities of the two exhibited in the form of pill, in both cases conjoined with proper collateral treatinent. We have no means of determining the relative value of the lines of practice, but the statement is worthy of the most anxious consideration.
$\therefore$ CORRESPONDENCE. S: To the Editno of British Americhn Journal
Sir,-I have taken the trouble to make particular enquiry into the charge mande against the Board of Governors of the College of Physicians and Surgeons, of Lower Canada, by Dr. E. Worthington, or Sherbrooke, in the last number of your Journal ; and I deem it necessary that notice be taken of the said chatges, for the satisfaction of the profession at large,-else, I presume, many may be induced to believe all the Dr , has said, and, by listening to his inuendoes, they may be tempted to entertain suspicions to the detriment of the institu-
fion. In the first place, with regard to the reason assigned for the non-election of Dr. Gilbert, to fill up the vacancy created by the removal of Dr. Marsden from the District of Three Rivers, there is a prima facie cui. dence of truth, insomuch, that the Secretary intimated the same officially to Dr. Gillert, as being the resolution the Board had eome to; but, in fact, no such resolution was passed, although such happened to be minuted in the hurry of the moment. But the ronver-ation was to this effect-" That, inasmuch as other candidates had come forward who were well known to the majority of the Board, (Dr. Johnson especially,) for their respectable standing in the profession, and for their seniority to Dr. Gillert, the Board resolved to consider them more ertitied to their suffrages." Accordingly, the clection was procceded with, and Dr. Gilhert was not elected-notowing to his incligibilitr, nor from any want of respect towards the signers to his memorial, but, simply, because the other nominees were his seniors; and, moreover, hecause the principle was one which had been atopted on all former occasions-and had never been objected to, not even at the celehrated uproarious first-meeting, convened by Executive authority for the election of Governers.

Dr. Gilbert may rest assured that his is not a malicious case, for the principle upon which the Board acted was based on the spirit of the hill, which, although it positiveiy says, that every member is at once eligible as Governor, goes on to say that from and after the passing of the act, none shall be eligible as menber uniess he possess a Provincial license of at least four years date. If, therefor, it be deemed advisable to restrict nemberslips to Provincial licentiates of four years standing; surely it is equally necessary that the ame sule should apply to a candidate for Governorship; cind, in the face of an entire absence of any clause in the bill, providing for such a condition, surely the Board minst be adnitted to have acted with most perfect consistency in adopting this principle, especially, when, as in this very case, perfectly respectable and competent persons were elect. ed, and these from among the very Districts which before had not been'represented.

In every othe respect, Mr. Editor, I quite approve of your laconic allusion to Dr. Worthingtons communication, which was evidently written for the purpose of creating bad feeling, but which is, wihhal, so sills, that it caries its own antilute. In one part he says, at the gathering or tie clans on the 10 h of May, at Quebec, there was no election, for some sapient 'reäson, no doubt ;" then further on (quoting from Dr. Gilbert), in alluding to the subseguent October meeting, hold at

Montreal, "the election did not take place on the first day as, owing to the By-Laws being unsanctioned by the Governor General, no vacancy actually existed." It would certainly have been more sapient in Dr . Worthington, hat he revised his sapient production before enclosing it to you for pablication, as he might have thereby discovered lie was acting counsel to plaintif and defendant at the same timc. But what in my estimation, stigmatises the production of Dr . W. as contemptible, is his assertion "that Dr. Gilbert was asked by the Mon. treallers how the would rote, in a way, indicating, that if pliable, his election would be probable." To this, I give the most formal contradiction, and defy either Dr . Worthington or Dr. Gilbert to name even one Governor whe, it is asserted, put Dr. Gilbert such a question. The very position of the nffairs of the College renders such a supposition truy ridiculous. What have the Governars to canvass fir? Is it to support the College against the opposition of certain parties? Surely no one in his senses could be induced to suppose that a person accepting office would join the opposition. For what other object canvassing could be required, I am at a loss to conceive.
Communications such as Dr. Worthington's, would tend to do much harm, were they in be alvays treated even by merited silent contempt; but when they contain remarks affecting the judgment and integrity of the Collcge, I deem it a duty towards the College and the profession at large, that immediate and candid explanations be given; consequently, I have taken the trouble of unaking this attempt to that effect-t:usting that it will convince all around, that the College of Physicians and Surgcons was not got up for any other purpose than that of placing the profession on a footing of respectability and good understanding; and that it therefore ill becomes any one to throw impediments in the way of so desirable an olject.

> I have the honour to be, Your most obedient servant,
> Francis C T Arnocd, M. D.

Nontreal, December 26, 1848.

UNJUET TREATMENT OF MEDICAL MEN, CW. To the Editor of the British American Journal.:,
Sm, The anomalous position in which the medical practitioner often stands'with regard to the administration of justice, is constantly being cxhibited in Canada West, and, I think, demands the attention of the Profession, and some combined mode of action to obviate it; as I think the following cases will abundantly

During the summer, a drunken fight took place between Roman Catholics and Protestants, which resulted in a severe injury to one of the number. A non-medical practitioner was called to attend the man, and a warrant was issued for the apprehension of the offending parties. . The injured man could not appear, consequently the magistrate could not decide as to his state and condition, and required that a licensed practitioner should see the individual, and report to him his condition. On the order of the magistrate, the medical man travelled eleven or twelve miles, visited the patient, attended the justice, and gave his evidence, and, upon the trial, was subpened to Court, had to attend at considerable loss, and was afterwards denied all remuneration for his services. He applied to the Magistrates in Quarter Session ; they declared they could not pay him, and that he should have refused to go at the order of the magistrate. The Commissioners for examining District accounts declared that the Government had nothing to do with the matter;-so there the matter rests.

Not long since, a medical man was called by the magistrates, medicaliy to examine some individuals. The case was one in which rape had been alleged to have been committed; he did so, and suffered considerable inconvenience, loss of time, and annoyance, and was also denied all remuneration for his services.

I might mention to you a case that occurred at the Hamilton Assizes. A husband killed his wife ; a nonlicensed practitioner was called to see the woman. The magistrate took the statements of the man, and did not require the, evidence of a properly-qualified modical man, but committed the prisoner on the evidence of that individual. Upon the trial, it was proved that he was unqualified to treat the case, or give evidence as to its nature; so that the man was discharged for want of sufficient medical evidence, it being impossible to prove in Court if the wounds received were the cause of her death. In this case, the magistrate was severely reprimanded by the Judge, for not doing his duty in requiring proper medical evidence, so that the ends of justice might be fulfilled.

I have also heard that a medical man complained to one of the Judges at the Niagara Assizes, that he was refused payment for similar services; and his Lordship boldly told him, that he should be too proud of the honor of serving his country, to complain of such treatment. Now, it seems to me that some steps should be taken in this matter-for its injustice must be apparent to all-either that application should be made to the Governor in Council to sanction the payment of medical accounts necessary for the administration of justice, or that the medical practitioner should know in what position he is liable to stand with regard to its ad-ministration-that he can refuse attention to the order of the magistrate if he pleases, but that the magistrate will be blamed if he does not do his duty-a pleasant position, certainly, and greatly conducive to the ends of justice.

I remain, Sir, yours truly,
Menices.

Cholera in New York.-On Friday, December 2d, the ship "New York" arrived at New York, from Havre, 22 days out, with 330 passengers. The first case of sickness was reported to the captain when off Cape Sa ble, on the previous Tuesday morning-a child, taken ill at 3, p.m., and dying at 8 , p.m. ; a-second child died with similar symptoms. On the following Wednesday and Thursday four men were reported sick, two of whom died suddenly with symptoms of cholera. A third diad from what was regarded as a case of dysentery. Twelve were landed at the quarantine station, Staten Island, of whom three died. The resident physician, Dr. Whiting, refused to report these cases as cholera. A report from the Board of Health stated that 18 cases of a disease resembling cholera had occurred on board the above vessel, of whom seven died. On the 9th, no cases had occurred within the city Jimits. December 18: Additional cases had occurred among the German passengers of the ship "New York;" at this date 20 cases remained in hospital, with five new ones and two deaths. Dec. 20: four new cases; three among the inmates of the hospital, one proving fatal: this day, two cases occurred in Wellington street, New York. Dec. 27: In hos. pital, Staten Island, Dr. Whiting reports this day five cases among the inmates of the hospital. A despatch from New Orleans, dated December 26, states the disease to exist in that city. On the 16 th , twelve cases occurred at the Charity Hospital, one proving fatal.

New-York, Dec. 27, 6.30, p.m.-A despatci from New Orleans, dated Dec. 24, says, 79 new cases of cholera have occurred at the Charity Hospital since 20th inst., and new cases hourly brought in. Three merchants had died of it in the city. Considerable excitement prevails in consequence of the Board of Works having proclaimed the disease epidemic. At Memphis, 21st, two boats touched there having cholera on board, with two cases among the passengers.

In England, the total number of cases of cholera reported, was 1715 , of whom 610 died. 220 recovered, and 375 remained under treatment. This statement comprises the news from England received on the 14th December.

Medical Referees and Insurance Offices.-In our last, we published a circular from the Westminster and General Life Assurance Company, of London, to the Prolession, stating that the Company would aliow a fee of e1 1sp to all medical referees. We peiceive, since
then, by our later exchanges, that the following additional offices pursue the same system, "The Medical Invalid Ofice, 15, Pall Mall. The Britannia, Princes Street, Bank. The Commercial and General Assurance Association, 112, Cheapside." Besides these, there are several offices which have no medical referee of their own, being content with the information obtained from the medical advisers of the assured. This, if it proves any thing, would tend to prove the uselessness of such an office. We think, on the contrary, medical referees are of use in preventing collusion.

The next Session of the Provincial Parliament.The next Session of Parliament promisés to produce important results, as far as our Profession is conceined. It meets on the 18th. First comes the Act of incorporation of the Profession of C. W.; next, the Act of Incorporation of the Pharmaceutical Society of C. E.; next comes, the proposed bill of the Hon. Mr. Cameron, to provide for adequate remuneration at Coroners' Inquests, which we would desire to see made a General Provincial measure; and next and above all, come the efforts of our friends of the Repeal Association. These
last we shall narrowly watch; and, they may depend upon it, we shall do ample justice to their advocate in the House.

Mr. R. D. Wadsworth has lefi on a Tour up the St. Lawrence. He will call on those who are in arrears for the Medical Journal, and will receive the names of new Subscribers. Many more should be added to our list. We hope our friends will be prepared for his visit.

## TO CORRESPONDENTS.

Letters lave been received during the month from Dr. Grifin and Dr. Von Iffand, (Quebec). Dr. Gibb, (Paris) and from Capt. Lefroy, and Dr. Bovell, (Toronto).
A thir t paper on the Gunshot Wounds, observed in the P'arisian Hospitals, by Dr. Gibb, has been, soceived. It will reseize early attention. From Dr. Grifin, Quebec, we acknowoledge receipt of a paper on the Clolera, as it appeared in Quebec in 1832, and from Dr. Sewell. (Sorel.) a report of a case of a cevere Wound of the Thorax. We must delay until next month, in consequence of the crowded state of the Original Department of our columns, the publication of Dr. Reynolds, and Dr. Gilnour's papers, the reception of which we have previously announced.

BOOKS, \&c., RECEIVED.
A text book on Practical Anatomy by Rabert Harrison; M. D., M.R.J.A. \&c., with Additions by an American Physician, with numerous illustrations. New York, Samuel S. \&: W. Wood, 1848.



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# MEDICAL JOURNALS, Published by RICHARD and GEORGE S. W00D No. 261 Pearl Strect, New.York. <br> <br> THE BRITISH AND FOREIGN MEDICO-CHIRURGICAL REVIEW, <br> <br> THE BRITISH AND FOREIGN MEDICO-CHIRURGICAL REVIEW, <br> AND JOURNAL OF PRACTICAL MEDICINE.-Published Quarterly, at $\$ 3$ per Annum. 

The Medico-Ciururcical Review had, for very many years, a reputation unequalled by any other journal, as the leading Medical Journal of Europe; and a standard work in medical literature. Being republished in this country for more than 25 gears, it was universally known to the Medical. Profession here, and was pronounced by some of the most eminent "the best nedical jonrual extant." The British and Foreign Medical ficview, though not so long established, was nearly as well known; and was conducted with such spirit and talent, as fally to entitle it to rank with its illustious predecessor. These two works are now united, (under the above title,) and will be sustained by the united contributions of the writers, whose talents have given such eminence to both. Of the merits of the work produced by this combination, nothing need be said. The Am erican fepublishers hope, however, to increase its value by their

## ADDENDA TO THE MEDICO-CHCRURGICAL REVIEW,

OR QUARTERLY RETROSPECT OF AMERICAN PRACTICAL MEDICINE AND SURGERY:
A valuable Abstract of American Medical Intelligence; compiled from all the imerican Medical Jounals; which will be sent, gratuilously,' to all who remit payment to the publishers, postage Iree, in advance.

THE ANNALIST: A RECORD OF PRACTICAL MEDICINE FN THE CITY OF NEW YORK.
Edited by Willian C. Roberts, M.D. Fel ow of the College of Ph/fsi inns and Surgeons, New York.--Published Semi-Mouthly, Price Tuo Dollars pir Aumm, in cadvance.
The vastness of its medical resources rendering New Yoik as much the medical as it is the commercial metropolis of the Union, the importance of this journal as a record of the progress of the medical sciences in this city, and an organ of communication between the members of the Medical Profession here and those abroad, must be apparent to all.

# WOOD'S QUARTERLY RETROSPECT OF AMERICAN AND FOREIGN PRACTICAL MEDICINE AND SURGEIIT. 

## Price One Doilar per Ammom, "o Advance.

This work is designed to meet the demands of this "high-pressure" age, by furnishing the physician and surgeon the means of keeping pace with the progress of knowledge in their respective departments of science, at the least possible cost of time ond money. It consists of condensed reports of cases and their treatment, with occasional remarks, and abstracts of the medical literature of the day, collected from the whole field of medical science, American and Foreign, with announcements of all new publications of interest to the profession.
Its plan is, in the main, that which has been so much approved in "Braithwaite's Retrospect," and " Ranking"s Abstract;" with the superadded advantages of a fuller view of American Medical Literature and Science, a mole frequent emission, and reduction of price; and it is hoped will meet with the general approbation of the Medical Profession. It was suggest ed by some members of the profession as a desideratum in medical literature not yet supplied by any journal; and the publishers intend, if well sustained in the undertaking, to spare neither pains nor expense to make it worthy of the most extended patronage.
It will be seen at once that; at a price so low, it can only be supported by a very extensive cicculation; but the advantages offered are such; that this is confidently anticipated; and they request all to whom this is sent who approve the plan; to aid them by bringing it to the notice of their professional brethren.
Authors and Publishers wishing their works reported, will please forward copies.

## RECOMMENDATIONS.

A work like "Woods Quarterly Retrospect," presenting a view of American and Foreign Practical Medicine and Surgery, so extended as to.omit nothing of material interest, yet so condensed as to meet the demand of those whose want of time or means prevents their access to the various sources from which it is compiled, was much needed, and we cordially commend it to the patronage of every member of the Medical profession.
Alexander M. Stevens, M.D. Pres, and Emeritas Prof. of Clin- Gustavus A. Sabine, M.D. Dem. of Anat.
Sur. in Coll. of Phys, and Surg.
J. M. Smith, M.D. Prof. of 'Theo and Prac. of Med, and Clin. Med. Clin. Med
John B. Beek, M.D. Prof of Mat. Med. and Med. Jeris.
John Torres, ML.D. Prof. of Bot. and Chem.
Robert Watis, Jr., Mid. Profo of Anat.
Willard Parker, M.D. Prof. of Prina and Prac. of Surg.
C. R. Gilman, M.D. Prof. of Ohstets. and Dis. of Wonn. and Child.

Alonzo Clark, M.D. Lect: on Phys. and Yath.
Gustavus A. Sabine, M.D. Dem. of A nat.
V. Mot, M.D. Prof. of Surg, and Pail. Anat. in University of New York.
Samucl II. Dickson, M.D. Prof. of Theo. and Prac. of Mcd.
Granville S. Pattison, M.D. Prof. of Genl, and Descrip. Anat.'
Mariyn Paine, M.D. Prof. of Insi. of Mcd. and Mat. Mcd.
G. S. Bedford, M.D Prof. of Midwif, and Dis. of Wom. and Child John Wm. Draper, M.D. Prof. of Chem.
Wm. H. Fan Bearen, M.D. Prosec. to Prof. of Surg.
Wm. Dalling, M.D. Dem. of Anat.
Since its first appearance the Retnospect has met with general approbation; and many testimonials in its favor might be produced; but the publishers deem it unnecessary to give more than the foregoing from the Professors of the two Medica Schools of New York; hoping that as the price is'solow', those who wish to know more of it, will give it a trial for one year ond asuettain its character from the work itself.

Subscribers in ordering these works will please write their names legibly, and at full length, adding their respective titles and the names of the town, county, sc., of their residence.
All other Medical Journals, and Medical Books in generab, for sale. Calalogues given on application.

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TTHE SUBSCRIBERS have prepared, for Sale, Chloroform, or Terchloride of Formyle, the new Anæsthetic Agent, as a substitute for Ether, recently proposed by Dr. Simpson, of Edinburgh. This Agent has received the recommendation of the highest Medical Authorities in Great Britaiu, and has been used with increased success in this vicinity.
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Jan. 31, 1848.
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FLUID EXTRACT OF JAMAICA SARSAPARILLA. TTHE Subscriber begs leave to submit to the Medical Profession and to the public, his preparation of Sarsaparilla which has been extensively used in their practice, by many of the most eminent Medical Gentlemen in the City, and with the most beneficial results, as the following testimonials, with which he has been very politely favored, will satisfactorily show.

For sale only at the Medical Hall, Great St. JamesStreet.

ALEX. URQUHART.
August 2.
A iexander Urquhart, Esq--Dear Sir,--ithave much pleasure in bearing testimony to the faithful manner in which you prepare your Fluid Extract of the Compound decoction of Sarsaparilla. This I an enabled to do on account of several of my patients having derived the greatest benefit from its use.

For Constitutional Syphilis andChronic Rheumatisn;; I have prescribed it with the most marked effects; I can therefore, without the least hesitation, recommend your preparation as one possessing all the Medicinal qualities of the Compound Decoction of Sarsaparilla, while it is, at the same time, more palateable, and less apt to derange the stomach.

> I remain, Dear Sir,
> Your most obed't serv't, W. FRASER, M. D.
> Lecturer on Medical Jurisprudence, M'Gill College.
Montreal, 9 th February, 1847.
Montreal, February 10th, 1847.
I beg to certify; that I have employed very extensively, the "Eluid Extract of Sarsaparilla," made by Mr. Urquhart, in all those diseases in which that Medicine is usually prescribed, and that I have found it a most valuable preparation. I can, moreover, state from personal investigation, that the proprietor employs none
but the purest ingredients, and bestows the greatest care and attention upon the mode of preparing the remedy.

> Robert L. Macdonell, M. D.,
> Lecturer Institutes of Medicine, M'Gill College,
> Physician to the Montreal General Hospital.

Mr. Urquhart's Sarsaparilla is the only preparation of this valuable Medicine that I can, with entire confidence, recommend to my patients.
M. M'Culloch, M. D.

Montreal, 10th February, 1847.
Dear Sir,-I have frequently prescribed your Fluid Extract of Sarsaparilla, and I have no hesitation in recommending it as a very elegant and convenient form for administering that Medicine.

## Yours very truly,

Geo. W. Campbela.
To Alex. Urquhart, Esq.
Montreal, 10th February, 1847.

## COLLEGE OF PHYSICIANS AND SURGEONS OF LOWER CANADA.

TTHE BY-LAWS of the COLLEGE having received 1 the sanction of the Executive, its BOOKS are NOW OPEN for the REGISTRATION of MEMBERS.
It is required of such as desire to register, that they forward to the undersigned (post-paid) their name, legibly written in full, their age, birthplace, date of Provincial License, and the College Fee, viz., Ten Dollars in current money of this city.

All such as signed the Petition to the Legislature for the Act of Incorporation, are entitled to Register forthwith, provided that at the time of their signing they were in possession of a Provincial License to practice Medicine, \&c., \&c.; and in virtue of the By-Law which refurs to Membership, the Books of the College shall Ee kept open during a period of Six Months from the time of the passing of the said By-Laws, vie., the Tenth day of October, 1848, for the Registration of every Member of the Profession who desires so to do, provided such Member has been in possession of a Provincial License to practice Medicine, \&c., \&c.; Four Years at the time of the passing of the Act of Incorporation, viz., 27th July, 1847.

> FRANCIS C. T. ARNOLDI, M.D. $\begin{aligned} & \text { Registrar \& Treasurer, } \\ & \text { Coll. Ph. \& Surg., L.C. }\end{aligned}$ Montreal, 1st Dec., 1848. $\}$

## MEDICO-CHIRURGICAL SOCIETY.

THE next Monthly Meeting of this Society will be held at the Rooms of the Mechanics' Institute, on Saturday Evening, Jan. 6, at $80^{\circ}$ clock p.m.

Hector Peltier, M.D.,
Montreal, Jan. 1, 1849.
Secretary:


[^0]:    * The extremes, both casterly and westerly, of the declination, oscurred in this interval. The extremes of horizontal force do not appear to have been attended by any phase of unusual britliancy. The negative extreme, was at 1 a.m. The positive $\epsilon x$. treme some time before the commencement of the display, (at $4-50, \mathrm{p} . \mathrm{m}$.)
    $t$ This position agrees very nearly with the prolongation of the dipping needle, but is somewhat to the west of it.

[^1]:    "It is easy to say that the School Act is diffuse and emmplicated, obscure and uninteligible; but under the pecular and difficult circumstances in which the inhabitants of this country are placed with regard to one another, it is not so casy as people think to abridge and simplify this act, and at the same time to leave in it all That is necessary; it is not so casy as pocple think to render it more clear and iniclligiblo without introducing into' it fresli obscurties and ambiguitios. It is very easy to destroy a law by abandoning it to be the butt of caprice and bad passions, and handing it over to the mercy of party spirit and the ambitious influenec of personal interest whinh will accelerate ats ruin; but A is nut so easy as it is supposed, to draw it up better, or really to make it perfect, more especially when so many persons wiose busincss it is not, and who are without experience in the matter, insist upon having a hand in the work.
    "'The legislation of all enlightened countrios shews us that good laws, and more cspecially grod cducation laws, are the result of calm and petsevering experience, acquired by long and continued observation, and profound and unceasing meditation. Ncarly three centurics have passed away since the foundations of a system of public education were first laid in France, and yet the law there is still very far from giviug perfect satisfaction to all.

[^2]:    * See pege 237.

[^3]:    * Dr. Potter of N. Y., in his Prize Essay on "The School and Schoolmaster," well observes that, "it was to supply that la. mentable deficiency on the part of trustees, town-inspectors, and purents, that the office of county Superintendent was created;that the creution of this office secmed to be licudly called for from all parts of the State: that the law was framed nearly on tho model of that which is considered the best for securing school inspection that the world has yet seen, (that of Holland); and that it is now regarded by the most enlightened friends of popular instruction throughout the country, and he might add throughout the world, as the one measure without which the State system must have remained comparatively inert; but with which it must, if properly sustained, rise to excellence and cover itsetf with honor,"

[^4]:    * We would even go further, and maintain that no better "manual" can be put into the hands of our Members of Parlia-ment,--to prepare them for thoroughly understanding tie merits of the Common School Question, than the "U:C. Journal of Education." us fur as publishicd, - it containing a most valuable and instructive mass of information on every subject connected with the workings of different systems of public instruction, as now in operation in every part of the world:

[^5]:    * It is but justice to add, that this discreditable opposition to the spread of education, among the latter race, has been chicfly: manifested in parts of the counties of Beauharnois, Shefford, Sherbronoke, Stanstead, Drummond, Lotbinicre, Megantic, Ofta,
    wa, and Two Mountains.

[^6]:    * That our readers may thoroughly understand this rather pointed allusiun, it may te as well io siate, that taking a deep intercst in Agriculture as well as Education, we hailed with deligitt the late establishment of the Iower Canada Provincial Agricultural Siciety-and still more the advent of so well conducled and highly promising an agricultural periodical as the Lower Camada Agricultural Journal-as not only in excellent vehicle for disseminating useful agricultural information, but as, next to sehoo!s, one of the most powerfu! means of promoting a bland amalgamative feeling between our two "rival races." We could nit, therefore, he!p enjoying, even in fancy, the pleasing scene of a Jean Bap. tiste and a John Bull met in friendly discussion of same debate. able point in farming, or some new view of that arrful pest, the potnto disease, moolcd in the Agricultural Journal; -when, 10:

[^7]:    the master. No part of his income is derived from the publec funds; but the freeholders in every parish are bound to furnish him with an annual sum called his sitary, and to kenp tho school and his dwelling house in ordimaty repair. The salary varies considerably, according to the sizo and worth of the parish; being in some as low as $£ 20$, and in others rising nbove this. by varinus gradations, according as lampholders are desirous of at. tracting men of the first falent th the instruction of their routh; but the salary alone is the sum which the law compels the inha. bitants to provide: and the other emoluments, growing out of fies or wages, are paid by the parents win send their chiddren thither for instruction. The parish then merely gives at partial contribastion to the supprort of the teacher, to enathe him to aecept a lower rate of wages from all without distinction; and also to extend his care, gratis, to such children and orphans as would not other. wise be cducaled. The frecholders. many of whom never had families, or have families grown up and selfted, are not burthened with the whole enst of maintaining their sehan's, but only with a certain portion of it, so as to lower the rate of tuition and to make learning more acceptable in the middle and poorer classes: and, aceordingly, whenever their nen sons and daughters are placed under the superintendenee of the master, they have to pay him the customary fees exacted from the rest of the onmmunity. Whenever a vacancy occurs in a puronhial school, candidates, by public advertisement, are invited to ofter lacenselver, and a day of public examination is fixed, when such as appear undergo a comparative scrutiny touching their qualifications and proficiency; and the teacher best qualified is forthwith installed into the situation, net liable to be dismissed afterwards, except for miseonduct. For half: a contury past none have been allowed to onter into competition who were not capable of teaching the higher branches: and a thornurh linowirdge of the Latin tongue, with a moderate share of the Girels, is regurded as indispensible. In towns or villages which rise within the bounds of the parish, either from the introdaction of manufactories or the natural growth of popolation, schuols of all kinds, and many of them faught by females, ppring up, which all are left to their own field having no support other than the fees of tuition. With these the law in no wav interferes, but confines its requisition to one pablic schon, with a master of suit:ble attrinments, in some central part of the parish."

    * By this however. we do not mean to imerfere with every child attending echool, maling a trifing monthly payment to the teacher,

[^8]:    Edemn of the Glottis.- Dr. Jameson, in the Dullin Journal of Medical Science, for February, 1848, reports thirteen cases of this affection produced by boiling waler. The operation of bronchotomy was performed in ten, three of which recovered, and seven died, four of bronchitis and pneumonia, one from the shock of the operatoon, and one from an accident while on the table. In two cases, antiphlogistic treatment was resorted to-one reco.' vcred, and one died. Dr. J. makes the following remarks:

[^9]:    * In the autopsy of a prev:ous case, Dr. Spackman had ot. served the existence of globules of air in the veins of the neck; and in these of the brain. Might this nut suggest the hypothesis that the materies morbi is a gas-generating poison?

[^10]:    * Some malarious puisons do undoubtedly contaminate the blood itself, and require special actorn for their elimination, as the Egyptian plague by boils; but these form a distinct genus of con: tagion, and do not fall under our immediate consideration. Thoso now to be discussed are all cliaracterized by intormitting action till fhey reach their climax in cholera.

[^11]:    * The above reflections may scrve to suggest the question to

[^12]:    The dose given three times a day; not the quantity given daily,

[^13]:    *This property, however, iccords so little with others which it is known to possess, that ore may well be excused for remaining akeptical as to its existence, under any thing lese than a rigorout demonstration.

