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# BRITISH AMERICAN JOURNAL 

 OF HIDIIUL \& PIIISIULILecturer on Chemintry, University of McGill College; Member of the Medical Board of Examiners for the Distuict of Montreal; one of the Physicians to the Montreal Generna Hoppital ; one of the Consulting Physicians to the University Lying-in-Hospizal, \&c.

## VOL. 'IV.]

## OCTOBER, 1848.

[No. 6.

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## MONTREAL :

printed and published by J. C. becket $211 \frac{1}{2}$ St. pauk Street.

# UNIVERSITY OF M‘GILL COLLEGE. FACULTY OF MEDICINE. 

TIHE ENSUING WINTER COURSE, OF LECTURES, in the Faculty of Medicine, will commence on Monday, Nuvember 6th, and will be continued, uninterruptedly, with the exception of the Christmas vacation, till the last weck in April, furming a Session of Six Months.


Montrcal General Hospital, visited daily at Noon.
University Lying-in Hospital open to the Students of the Midwifcry Class.


#### Abstract

In each of the Courses above specified, five lectures per week are given, execpt in the Cour es of Clinical Medicine, and o Medical Jurispradence, in the former of which two, and in the latter three only, during the week, are given. The Lecturcrs in the different departments, will illustrate their respective subjects, by the aid of preparations, plates, apparatus, specimens, etc. etc.

The Medical Library, which is furnished not only with books of reference, but the usual clementary works, will be open to matriculated students, without charge, under the necessary regulations. Access to the Museum will be allowed at certain hours. The Demonstrator of Anatomy will be daily in the Dissecting Rooms to oversec and Direct the students. N. B.-The tickets of this University being recognized by the Universifics and Colleges of Great Britain, students who purpose completing their professional education in the mother country; will obtain an important advantage by having attended its Courees.


## SUMMERSESSION.

The Summer Courses will commence on the second Monday of May, 1849.
Medical Jurisprudence,
Botany, -
by Dr. Fraser.
" Dr. Papineau.
A. F. HOLMES, MD. \& P.

## SCHOOL OF MRDICINE ANDSURGERY.

T
HE LECTURES at this SCIIOOL will commence on MONDAY, Gth NOVEMBER, and will be continued till the last day of APRIL, 1849. During the Scasion, Lectures on the following Departments of a Medical Education will be delivered, viz.;

| Anatomy, $. . . . . . . . . . . . . . . . . . . . . . . . . ~ D r . ~ B i b a u d . ~$Chemistry,....................... Dr. Sutherland.Materia Miedica,.................... Dr. Coderre.Surgery,..................................... Monro. |  |
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The Lectures are given in the French language.

| Practice of Medieine,:................... Midwifery, .......................... <br> Dr. Badgley <br> Midwifery, <br> Dr. Arnold <br> Institutes of Medicinc, <br> Dr. Pehtier. <br> Medical lurisprudence ................. <br> Dr. Boyer |
| :---: |
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Wm. SUTHERLAND; M.D. Montreal, September 25, 1848.

COLLEGE OF PHYSICIANS AND SURGEONS. THHE next MEETING of the BOARD of GOVERNORS of the COLLEGE of PHYSICIANS and SURGEONS of Lower Canada, for the purpose of Examining Candidates for License, as well as for the examination of those about to enter upon the Study of Medicine, will be held, in accordance with the Aet of Incorporation. on Tuesday, the 10 th day of October next, at 10 o'clock a.m., at the Parliament House, Montreal.

Candidates are required to deposit their Credentials with the Secretary, at least ten days before the Meeting.

> By Order,

## A. H. DAVID, M. D. <br> District Secretary.

MEDICO-CHIRURGICAL SOCIETY.
THE next. Monthly Meeting of this Society will be held at the Rooms of the Mechanics' Institute, on Saturday Evening, Cct. 7, at S o coclock p.m.

Hector Peltier, M.D.,
Montreal, Oct. 2, 1848.
Secretary.
ETHEREAL SOLUTION OF GUN-COTTON.
Prepared and Sold at the Medical Hall, Grat St. James Street.

THIS recently discovered preparation which has been used with much success by several Medical Gentlemen in Town, a most Efficacious Remedy in BURNS, SCALDS, RECENT WOUNDS, \&c. \&c. The instant it is applied, it forms a coating similar to Gold Beater's Skin; it is more adhesive than the Pla. ter in common use, and is perfectly clean and harmless.

ALEX. URQUHART.
Montreal, Augnst 10, 1848.

# MEDICAL AND PHYSICAL SULENCE. 

ART. XLII.-OBSERVATIONS ON THE CLIMATE OF BARBADOES, AND ITS INFLUENCE ON DISEASE: TOGETHER WITH REMARKS ON ANGIOLEU. CITIS OR BARBADOES LEG.

By James Bovell, M.D.,

Member of the Royal College of Physicians, Londun,-late Junior Physician to the Barbadoes Gencral Hospital,-Junior Physician to the Toronto General Dispensary and Lying-in Charity.

## (Continued from page 116.)

The gastric consitution had scarcely established itself, or become pretty generally diffused, when a new character, viz., the inflammatory, appeared upon the stage, and has ever since continued, sometimes combining itself with the gastric, to form diseases of a mixed character, such as erysipelas, and sometimes, when favoured by the seasons, or local circumstances, raising itself to the rank of chief performer. With its appearance, venesection, which had previously fallen into disrepute, became once more a favourite remedy; and, in the course of a few years, was pushed so far, particularly in Great Britain, that Sangrado's maxim, "C'est une erreur de penser que le sang soit nécessaire à la conservation de la vie, ou ne peut trop soigner une maladie," seems to have been the general rule of practice. The same inflammatory constitution became also general in Germany; but there it neither attained such a height, nor required such active treatment as in Great Pritain, where many circumstances favoured its more perfect development : with us it more generally yiehed to the use of acids, cold applications of mercury, but in England it called for copious blood-letting.
Eren in 1810, dispases had become more inllammatory at Tubigen than they had been previonsly; but the change was still more perceptible in 1813 , when the antiphlogistic treatment required the aid of small venesections, and nervous fevers were accompanied both by inflammation and derangement of the digestive organs. Erysipelatous allections were also frequent, and in many cases were of a marked inflammatory character. Erysipelas and true inflammatory, requiring the use of the lancet, were common in Ratisbon in 1811. Garrot ex. hibited acidy, especially the acetous, with great success in the epidemic nervous fever which raged at Dorpat in 1812 ; and a diarrhoe of a bilious inflammatory nature prevailed at Könisberg during the same year. This important change in the constitution became very evident in the nervous fever at Berlin in 1813, as well as in the formidable epidemic described by Horfeland, which ensued after the war, and raged in the North of Germany during that and the preceding year. Although but a few years before the strongest stimulants had been necessary to obviate the paralysis which supervened were in the beginning of the disease; yet an opposite course was
now required, and antiphlogistic remedies were alone found capable of preventing the vascular excitement from terminating in inflammation of either the head or chest. In short, the inflammatory constitution has been prevalent in Gemany ever since the years $1810-11$, sometimes in its pure and marked form, and sometimes complicated with gastric and rheumatic symptoms.

This constitution became general at the very same period in Great Britain. Dr. Clutterbuck, of London, had, indeed, ascribed the origin of fever to inflammation of the brain in 1807, and, about the same time, Dr. Steiglezto, of Hanover, had recommended the antiphlogistic treatment of scarlet fever in preference to the stimulating plan then in vogue. But as the inflammatory was then still subordinate to the rheumatic and gastric constitutions, their opinions did not gain many converts. But the inflammatory constitution increased so much in the auturn of 1809 , and the winter of 1810 , that even Dr. Bateman was obliged to prescribe venesection in fevers, a practice quite at variance with his former views. Erysipelatous inflammation became common in London, Aberdeen, and Leeds, and numerous cases of puerperal fever occurred in the later towns, which, according to Gordon-and Hey, never terminated favourably, except when blecding and purgatives were employed with freedom.

But it was not until 1813, when the inflammatory constitution had fully developed itself, and the bad consequences arising from violent determination of blood to the head in nervous fevers could not be averted, except by decisive measures, that venesection came into general use in Great Britain, in consequence of the publication, by Dr. Mills, who had prescribed it with much success since 1310. In the same year, that truly estimable physician, Dr. Thompson, published his admirable work on inflammation. Blackhall recommended blood-letting in several species of dropsies, and Armstrong employed the same remedy, combined with large doses of calomel, in the inflammatory puerperal fever, which was prevaIent at Sunderland. Venesection became from this time as great a favourite as ever in England, not, however, to the exclusion of purgatives, which were indicated by the derangement of the stomach and bowels that accompaniel the inflammatory constitution.

Both these remedies were found extremely beneficial in Ireland in the nervous fever, which was epidemic in Ireland in 1813-14; its inflammatory character being clearly evinced by a hard and full pulse during its first stage and a violent determination of blood to the head, by which the headache and raving are increased, while its gastric type was not less strongly marked ly tenderness of the epigastrium, costiveness, or else frequent and unnatural alvine discharges, ngether with a loaded
tongue, and bilious vomiting. The latter symptoms were, in Dr. Grattan's opinion, of such importance that he gave a decided prefercnce to the purgative plan. The fever, which had previously been confired to Ireland, became generally diffused over Great Britoin, after the famine of 1816 , and continued, without intermission, for four years. Its inflammatory character being peculiarly favoured both in England and Scotland, by the habits of the inhabitants, and the situation of these countries, venesection attained an unexampled degree of celebrity, notwithstanding the representations of the Irish physicians, who used that remedy with more moderation. It was soon believed that there is, literally speaking, no disease whatever in which the lancet ought not to be used, and, as the human mind is ever prone to extremes, it was soon generally believed, in both England and Scotland, to be a well foundel pathological inference, "There is but one species of fever, namely, the inflammatory, and, consequently, venesection is the only true anti-febrile remedy. Such is the case in England at present, and it must have been so always, and in every part of the world." I flatter myself that the preceding observations and statements of facts, drawn from authentic sources, sufficiently negative those assertions, and establish the real existence of a change in the constitution of diseases, notwithstanding what Dr. Duncan once said to me, " that such changes existed only in the imagination of the physician."

The whole of these highly important and remarkable truths apply with equal force and strictness to the variable nature or constitution of diseases in the whole group of islands forming the West Indies, and to a neglect of, or to an ignorance of the fact, that such variations do take place, must we ascribe the various and opposite remedies recommended by authors for the cure of the same diseases. Nothing more clearly illustrates this than a reference to, or review of the various methods of treatment recommended for the cure of dysentery as it has appeared at different periods of time. Mosely asserts that "whatever opinions may have been propagated, to be honored with credit they do not deserve. I think it unnecessary to inform practitioners unacquainted with hot climates, that I never saw a dysentery during my residence in the West Indies, in which even the mildest acids were not prejudicial." Since his time, the charm of the acid treatment has been extolled, and the free exhibition of lemon juice raunted as a specific in dysentery; at another, lemon juice and salt mixed together, have been highly esteemed. In some epidemics, the disease has been easily and completely controlled by the administration of ipecacuanha, while in others, sulphuric acid, and sea water, and calomel, and turpenine, have each been lauded in their turn; and though last, not least, venesection has been upheld as the remedy superior to all others.

Now, it seems very evident that a disease requiring such a vast variety of methods of cure, could not possibly have had the same constifution, but must, at its several visitations, have had peculiarities rendering it proof against those weapons by which it had been before successfully assailed. It is not, therefore, sur-
prising that so much contention should exist as to the superior value of any given remedy, since practitioners are frequently unmindful of the truths of the doctrine before us. The treatment of yellow fever, a disease pretty frequently epidemic in the West India Islands, as is well known, presents a complexity discouraging and unsatisfactory to the student, unless he is made acquainted with the fact, that the disease, under different periods, has presented the most characteristic differences. We find Mosely, in his work published in 1795, page 43, acknowledging to the fullest extent, that " It is certain diseases undergo changes and revolutions; some continuc for a succession of years, and vanish when they have exhausted the temporary but secret cause which produced them. Others have appeared and disappeared as suddenly, and others have their periodical returns." Hughes, in his "Natural History of Barbadoes," in 1750, says that "Dr. Gamble remembers that it (yellow fever) was very fatal here in the year 1691, and that the same symptoms did not always appear in all patients alike in every year when it visited us;" and with reference to the evidence afforded by the revelation of pathological anatomy, Mosely observes, "At the termination of yellow fever, the stomach, in some part or other, is generally mortified where the black vomiting has been protracted, and when livid spots have appeared on the body previous to death; for, on inspecting many dead bodies, I have always found some part or other of the stomach, and frequently the superior part of the duodenum, in a gangrenous state, and never without evident marks of injury from inflammation, let the diseuse have been ever of so short duration." These appearances are univereally produced by a mortal yellow fever, but from the appearances of the liver and gall bladder, though both must be materially affected, there is no infcrence to be drawn that can be depended on ;" and again, dissections bave never discovered any certain and uniform in the liver of those who have died of this disease. M. Louis, the profound French philosopher and physician, in his report on the yellow fever of Gibraltar, observes, "That the liver was of greater size than natural in two cases; a little firmer than natural in three cases; a little less firm in three others. Its cohesion was increased in six cäses, diminished in seven. Its colour was altered in every case; sometmes it was the color of fresh butter; sometimes of a straw yellow colour, a clear coffee-and-milk colour; sometimes a green-yellow; sometimes of an orange." The examinations made by Dr. Evans agree in the main with those of M. Louis, and the cases witnessed by myself discovered the liver motled precisely like the section of a nutmeg, and wanting in cohesion.

Having thus pointed out the applicability of Professor Autenreith's remarks to the West India Islands, there remains yet one other subject of importance to be noticed, and which has direct reference to the treatment of disease arising or dev loping itself in new comers. If the custons, manners, and habits of a people stamp them with certain peculiarities, recognisable even in the physical conformation, it is not to be wondered that the morbid actions under which they labour, should also
partake of striking peculiarities; hence typhus fever in Dublin has phases which mark it from the same disease in Paris or London; hence we assume that the treatment of disease arising in a fresh European just coming to the islands, cannot strictly be the same as that parsued towards a long resident or a native; honce we consider it the essential duty of the Physician to inquire into the history and character of the diseases prevalent at the time at which the Immigrant left his home or conntry.
It would appear, from observation, that a fever contracted by a newly arrived European, immediately on, or soon after his arrival, is not the genuine fever which may prevail amongst the natives and old residents; but the disease is a hybrid, and partakes of a mixed character. A well-marked case of this occurred in the person of a fine young man, a native of Cork, who, in a fortnight after his arrival at Bridgetown, contracted fever, which, for the first night and day, had all the usual characters of the ordinary fever of the island. On the afternoon of the third day, a very marked change took place; the tongue became dry, covered with thick brown coat ; the gums encrusted with sordes, and lips parched and shrivelled. On the fifth, the cyes were suffused, and petechise appeared on the chest, hack, and arms; nausca supervened; bowels moved with much difficulty, notwithstanding the use of enemata and medicine. As he lay on his back, in this condition, we were much struck with the whole aspect of the case, and its striking resemblance to cases of true typhus, as witnessed in Dublin. Before his death, on the eve of the sixth day, this young gentleman had fourteen black vomits. We have since witnessed other cases equally impressive. The practice of the army surgeons in the epedemic of 1836-37, differed from that pursued by the civil practitioners. At the garrison, the plan recommended by Dr. Stevens was pretty generally adopted, while the old and esteemed president of the Board of Health, Doctor Butcher, confided almost solely in the Lancet. That both methods of treatment were correct of themselves, or, as related to the two distinct classes, I can readily believe, and feel fully satisfied that the treatment to be pursued towards Europeans, must be a modification of that adopted towards old settlers. The learned Annesley, in his great work on the Diseases of India, makes a wide distinction in his treatment of diseases arising in the natives, and in Europeans.

Dr. Bancroft ascribes the agues of spring to the previous autumn, and, for this reason-" that he has seen persons seized with ague after they have returned to England from a warmer elimate, where they had been exposed to miasmata; and that they had experienced the disease at too early a period in the year for it to have arisen from malaria at home." Dr. Elliotson fully agrees in this opinion, and my good friend and colleague, Dr. King, has always recognized this peculiar law of disease, and on my talking over the subject with him, on one occasion, mentioned that he then had a case under his care of a clergyman from the island of Trinidal, who had arrived at Barbadoes in heallh-was taken ill shortly afterwards, and had a fever with the constitution of that of Trinidad. The wife of this gentleman
was also taken ill with catarrhal fever, affecting, apparently, the bronchial tubes as in ordinary bronchitis, but which assumed a so decidedly remittent form, that he gave quina, which soon effected a cure. Dr. Bancroft secms evidently to admit that there is a difference in the type of disease as affecting new comers, and old residents; for, he observes, in his Gulstonian Lectures, that-"In the plethoric stranger, and in arit situations, the fever is usually ardent and continued, while in those who have resided some time in the climate, and whose gystems are reduced fromi a high state of health and European vigour; and in uncleared wooly places it frequently assumes the remittent form. And Dr. Graves, in speaking of typhoid diseases, says, "s that the tendencies of diseases and other febrile disorders depend less on any peculiar influence of the exciting cause, thin upon some change proviously effected in the human body hy the silent and gradual influence of certain predisposing causcs. In these few and insufficient observations, our desire is to draw attention to this subject, with the view to inquiry, and the hope that some good may result from the investigation.

That the past history of Barbadoes exhibits a striking contrast to its present sanitary condition, is a truism casily substantiated; but as this manifest improvement was contemporaneous with two mighty revolutions, the one physical, and the other moral, there may be a question as to which of the two the changes are to be ascribed. We hope, however, to be able to show that both had their influence, but that, beyond all doubt, the act of emancipation has had the greatest part in bringing to the island of Barbadoes at least, an amount of health. fullness which it has never before enjoyed, thus affording a striking example to governments, and to those who, labouring for the advancement of the whole human family, desire that unfettered industry should exert its natural supremacy over compulsory labour and bondage : that the cheapest poor-house is a well tilled field, and the best physician an abundant and wholesome supply of food and air.

If we look to the past and present history of the world, we find that it is evidently governed by laws which, very properly, may be entitled the laws of change, and which are in perpetual operation, progressing towards further or newer conditions, but in gradual and sirict accordance with present requirements. Geologists have shown that revolutions, vast and incomprehensible, have taken place, and given way to newer formations; the museums of natural history have been made the depository of animals that once had their existence, but are now not to be found; while, ever and anon, the catalogue of living species is enriched by the discovery of new ones; and, in the moral world, how various are its different epochs. If, then, man has been adapted by an all-wise Creator to the sphere in which he moves: if he be a link in the mighty and unbroken chain of creation, can there he doubt but that he feels the vibrations, and participates in the cver varying movements which time and change infict. It is not, then, surprising to find in the bistory of diseases instances of modification of constitution or character, nor the complete annihilation of some at various times, and whose historics are only
preserved to us in ancient records. As a ready instance, we may notice the Sudor Anglicanus; and we may point to others which havo been let loose at times as a scourge to man, but are seen bound within very narrow limits. Dr. Mason Good, in his preface, volume 1st, observes, "that from a few nondescript skeletons occasionally found in the bowels of the earth, and particularly from the interesting museum of such established by Curien at Paris, we have reason to believe that a few species of animals have entirely disappeared, as we have also from the classification of recent naturalists compared with those of earlice times, that a fow species are now in baing, which had no existence in remote ages. And in like manner, whilst a fow species of diseases are now no longer to be found, which are deseribed by earlice writers, a few seem to have supplicd their place, which are comparatively of modern origin.

So it is that the face of the world is continually changing, and places that were once the abodes of bealth, are nurseries for disease; while others which yawned as a grave for man, have become the gardens of his earthly happiness.

There is no part of the world to which the European goes with greater dread than to the West Indies, and it cannot be wondered at, when, from fatal experience he knows that even Barbadoes, the least marshy and most casterly of the whole chain, was not exempt from many severe and virulent diseases. On referring to Hilary's work, and taking the year 1795, which he represents as an unusually healthy year, as an example, we find that the month of January was cool and pleasant, and most healthfil ; there was little or no diseasc.

February - Was also dry, pleasant, and healthful.
March-Was ushered in with catarh and coughs, which were followed by pleurisies, peress-pneumonics, and hooping cough.

April-The coughs, pleurisies, \&c., continued with occasional cases of dry belly-ache and yellow fever.
May-These maladies abated somewhat this morith, being unusually free from epidemic complaint.

June-Inflammation of the bowels prevailed, together with cholera-morbus, diarrhca, dysentery, and putriu bilious-fever.
July and August-In addition to this fearful catalogue of discases, quinsies, opthalmies, and inflammatory fevers were rife, which becane more aggravated during the month of September.

October-A catarlial fever broke out, from which few or none, either black or white, escaped.

The catarrhal fever continued during the months of November and December, with the additional visitation of other maladies. This author dwells, ton, on the freguent occurrence of tetanus, and says, "that it may justly be considered as endemial."

Until the visitation of the hurricane of the 11th Aug., 1831, the island continued in its career of usual unhealthiness ; but immediately after, an immense climateric revolution seems to liave been effected, and suddenly a season of extraordinary health succeeds to pestilence and disease.

Sir Walter Scolt uses this well-known fact in painting
an analogy of the French revolution, "which in its effect may be likened to a storm or hurricane, which, passing over a region, does great damage in its passage, yet sweeps a way stagnant and unwholesome rapours, and repays in future health and fertility its immediate desola. tion and ravage." The talented and estcened Frofessor of Chemistry at Codrington College, the IIon. Grant E. Thomas, in a letter on the present state of the island, says, "I appeal to those who remember what used to be the condition of the town with regard to fever, and of our estate hospitals with regard to dyentery, and their sequel as dropsies, cachexy, \&c., and who being charged with the responsibility of property, as well as of life, can never forget the wretched feeling which took possession of them when the limits of the hospital became too pre-: scribed for the admission of applicants, whose continued fever, epidemic, catarrh, croup, and ey nanche, daily sent in such numbers, as to cause cularged accommodation to be provided for their reception, in some more extensive and commodious building. It may be stated, without fear of contradiction, that no such thing has occurred since the hurricane. Tetanus, the invariable accompaniment of the slightest wound or puncture of any kind, and, therefore, the terror of the surgeon, and the glost which haunted the bedside of the wounded, is now so rare in its appearance, as scarcely to excite anprehension. Trismus nascentuem, which used to carry of an incredible number of infants, cven under the most favorable circumstances, when comfortable lying-in rooms were provided in the estate hospitals, and every requisite attention sccured, is now incomparatively rare in its occurrence." That Professor Thomas is not singular in his opinions, the concurrent testimony of the whole body of the profession is amply sufficient to show, and many even ald," that where the old discases have shown a tendency to return, they have been much more tractable and mild in their course." Since my arival at Barbadoes, six years have elapsed, and although I have attended many cases of midwifery among the lower classes, and preseribed for a very large number of children during that time, I have not met with a single case of trismus nascentium; and with the exception of Dr. Butcher, who had, in the year 1844, one case in his practice, and which was fatal, I know of no other case: Within the above named period, I have had under my own care two cases of tetanus from cold ; Dr. Howell of the Police Force one, arising in a European who had drunk a cup of hot tea, and immediately after exposed himself before a window, in a full dranglat of air. . My friend and colleague, Dr. Clarke, two cases, one in 1843 , in the person of a male cook, who was overtaken in a shower of rain after leaving his hearth, and the second, in a female; cause doubtful, as she had a very slight scratch on the instep. This case was brought into hos. pital on the fifth day, edat ny request, my friend Dr . Clarke, under whose immediate care she had been admitted, ordered the use of the hot bath. I superintend: cd it employment; as soon as the Thermometer indicated the heat to be 86 , the patient was placed in the water, being as rigid, and the museles' as hard as the head of a drum ; in fivo minutes the whole muscular sytem was entirely relaxed, and there was no return of
spasm; nevertioless, it was quite evident that the case was hopeless, and she died almost in three minutes after leaviag the bath. I also may record three cases occurring in horees, two from cold; one from the same canse, but following the operation of docking, two of these animals were saved: the other dicd. I know also of foor other cases, also from cold, happening in the year 18.46.
The ox docs not appear ever to have been so susceptible of tetanus, and the only fatality atecndant on wounds that I know of, has been among these, and which may have been avoided by the exercise of a little forethought. Some young bulls had been driven a distance of not more than a mile in the carly part of the day, but while the sun was very warm. Shortly after their arrival, they were castrated, together with a like number, belonging to the estate at which the operation was perfurmed; every one of the former were ill; most of them died, apparently from a low typhoid fever, white none of the latter had a single bad symptom, and recovered rapidly.

> To oe continued.

Art. Xlit.-A MEDICO-IEGAL ESSAY on FATAL DOSES OF PRUSSIC ACID.

By Wm. Wrigit, M. $^{\text {D., }}$ Curator of the Muscum, M Gill College. (Cintinuel from page 121.)
On the Modus Operandi of Prussic Acill.--Local or Immediutc Action:-Its most prominent results are, tingling and numbness, or destruction of sensation; these are due to its anmsthetic power over the sensific nerves, and are evinced when the vapor of the strong acid is approximated for a time to the skin, and by the calmative influence it exerts when used in morbid irritabilities or heightened sensations. It also possesses a paralyzing power as long as the link of reflex action remains unsevered. No obvious eflect has ensued on the application of the poison to the brain or spinal cord : applied to some mucous mcm. branes, as the gastric, it has created an hyperamia in their capillaries; in others, as the nasal and bucco guttural, it leaves a peculiarly acrid sensation.
Remote or Subsequent Action.-Prussic acid, when once introduced into the system, acts upon the brain and spinal cord-to do which it must, either mediately or immediately, come in contact with them, that is, it must be conveyed to them by a nervous or by a vascular channel. For the accomplishment of the last, primary absorption is essential; for that of the first, sympathy by continuity; this latter having or not having been preceded by venous absorption, and been transmitted through the nerves of animal, or those of organic life. Here, then, are the various phases which pertain to the present question, and each of them will now receive a very succinct consideration, for they are, comparatively, of but litlle importance to the medical jurist.

Sympathy by continuity, independently of previous absorption into the blood vessels, and originating in an impression on the sensific nerves of the part to which Prussic acid has beens applied. This view has been adopted chicfly from the supposition, that tho effects
caused by Prussic acid supervened too rapidly for the performance of primaty absorption ; from the statemem that a poison requires bine seconds for its complete circulation throngh the hody, and from experiments on animals, such as the killing of a dog in three scconds by a large dose of the acid. It is, however, untenable, for during the administration of excessive doses, especially if undiluted, much of them, as vapor, is drawn into the lungs; absorption by the pulmonary surface is instantancous, and immediately that the poison is within the former's capillarnes, it is hurried on with the mass of circulating fluid to the left side of the heart, thence to the aorta, through the branches of its arch that give of tributaries to the brain and spinal cord-the organs remotely affected by Prussic acid, which would thus have to travel, not the whole of the circulation, bat merely onc-third or less of its arterial portion, and therefore require much less time than three seconds for its arrival at these centros; and, a priori, by this route it could kill within the limit-three seconds. In instances of rapid death, excessive doses are administered, so that, though but a part of them gets at the lungs, and but a part of that part to the nervous centres, still it may be more than required to poison, for if nine-tenths of a grain of real acid have killed an adult human being, how much less wonld suffice for the destruction of a dog or cal.
Annexable to these arguments, which show the instability of the props of this theory, are those facts that are inimical to its erection, as-1, Prussic acid applied to the tongue or stomach operates after their nerves have been divided; 2 , Prussic acid leaves traces in the blood of its having been absorbed by the vessels (vide Post-mortem Appearances).: These, with other oljections that will appear in their proper places, are deemed sufficient authorities for the rejection of the idea, that the remote modus operandi of Prussic acid is through sympathy by continuity, indepeidently of previous absorption into the blood-vessels. But since it has been shown that this poison not only may, but does enter the sanguineous circulation, the question arises, might not its action depend upon sympathy by continuity subsequently to absorption? This, indeed, constitutes another theory, and shall now be discussed.

Sympathy by Continuity, with Primary Venous Absorption.-That is, the poison enters into the vessels, exerts its influence on the nervous fibrils distributed to their lining tunic, and the impression therely created is transmitted by their continuances to the nervous centres. : The inaccuracy of this is proved by the experiment of Verniere : when a ligature applied to the leg so as to stop the venous, but not the arterial circulation, prevented the action of poison inserted in the foot; but blood drawn from the rein below the ligative, and introduced into the circulation of another animal, proved fatal. Hence-1, Though a poison be absorbed, it does not act by sympathy-by influencing the nerves of the coat of the vessel containing it, for here the poison was in contact with them, and tho blood was so charged
with it as to kill another animal. 2, It satislactorily proves that the absorption of poisons is effected by the veins. I therefore also reject the theory of sympathy by continuity with primary venous absorption, as erroneous, and adopting the eclectic method of arriving at a conclusion, have only left for the explanation of the remote action of Prussic acid.

Its Absorption, and subsequent Diffusion through the Sanguineous Circulation, during which it comes in contact with the brain and spinal cord, probably by an elective attraction.-Additional arguments in its favor are-1, As long as the circulation remains intact, the poison acts, and vice versa. 2, "The intensity of the poison is in proportion to the absorbing powers of the part with which it is brought in contact." This will shortly be exempified. 3, " A sufficient time always elapses between its application to the body and the first symptom of its action," to admit of absorption. This has already been demonstrated. These, as well as others that have been adduced, subvert the doctrines of sympathy, and establish that which has been asserted above.

It is more likely that the alteration of the blood effected by Prussic acid occurs post than ante mortem, as the continuance of the circulation and of the vitality of the blood would be opposed to it. Its result, moreover, would be a qualitative change of this fluid, of permanent existence, and followed by serious or fatal derangement of bealth, from which the patients could not so speedily recover as they do by curative moans, and these would not be so simple in nature and unchemical in action as they are, had they to operate on the harmless compound into which the poison is resolved by the blood.

Condition of the Brain and Spinal Cord induced by this Acid.-According to Liebig's theory of the action of poisons, it might be thought that the quality of the nervous tissue was altered by the subtraction of some and the addition of other elements. But Prussic acid acts too rapidly to admit of this interchange. The fact is, their precise pathological condition is undetermined, but seems "to be identical with that which occurs during an epileptic paroxysm, and with that produced by loss of blood, for the essential symptoms are the same in all three, and ammonia has been found to relieve them."

How is death produced?-A powerful influence is exerted upon the cerelro-spinal axis when in contact with Prussic acid, and transmitted thence to the remainder of the nervous system, between which and the vascular there is such a minutely intimate connexion, that disturbance of the one subverts the due operation of the:other. As these systems are the mainainers of every tissue and organ, these affections are speedily followed by those of their dependants, and consist, at first, of porversion, exaltation, or diminution of function, but finally of its suspension or abolition. Nereira states, "In most cases, the immediate cause of death is obstruction of respiration," or apmea, as is shown by the excessive congestion of the lungs and right side of the heart. "In some instances," the cause of death "is stoppage
of the beart's action," or asthenia. In a former page it was inferred, from the multifarious experiments of Mr. Numnelly, that the right cavitics of the heart would alone contain blood in cases of rapid death, as in apnoa, and that all the cavities would be filled in cases of slow death, as in asthenia. This is contrary to what would be expected, a priori ; hut it must not be forgotten, that the heart beats for some time, in rapid poisoning by Prussic acid, after the other evidences of death have set in, and hence the assertion of Pereira, "There are cases in which the death is too immediate to be produced by obstructed respiration, while on opening the chest, the heart is found still beating. This I have obscrved in experibients on rabbits with strong Prussic acid."

Intensity of the Poison in Proportion to the activity of the Absorbing Surface, with which it is brought in contact.-Prussic acid acts characteristically in whatever way it be applied to the body, but most promptly when injected into a vein, next when inhaled, next when applied to a wound, next when appended to the serous surfaccs, next when within the stomach, or in contact with other portions of mucous membranes, as the conjunctiva, rectum, and vacina, and least of all when applied to the unbroken skin. The reasons for these differences appear to be-1, The extent of surface with which it comes in contact. 2 , Nunnelly's experiments show that dilution of the acid to a considerable degree "does not weaken the action, if it does not rather accelerate it ;" bat the undiluted acid, when taken into the mouth, is vaporised by its heat, therefore its relative amount is greatly increased, and as it is inspired, it comes in contact with the membrane of the bronchi and air cells-a circumstanco already shown to be overlooked by many theorists. 3, The nature or physical condition of the tissuc: hence one cause of the pulmonary surface absorbing more rapidly than any other tissue, is its finely delicate structure and great vascularity. The membrane lining the alimentary canal is less active, from its being less vascular, and covered, in some parts at least, by an epidermoid layer, and everywhere by mucus. Absorption is least active by the unbroken skin, as it is covered by an inorganic membrane, the epidermis. Thesc facts caution the toxicologist against considering as indispensable, that the acid must have been swallowed in order to have poisoned. For a muderer who had sufficient acuaintance with its properties, might, either by force or cunning, introduce into the vagina or rectum, or put upon the eye, sufficient of it to quiclily destroy life. Again, inhalation is very easily performed, very ef. fectual in its results, and most difficult of detection-

Relation between the Rapidity of the Effects of the Poison, and of the Quantity taken.-Its action is nol proportionably speedy to the amount taken. Thus it has been proved, that if 40 m . of Scheeles' acid will kill a dog within four minutes, 80 m . would not have killed him in two or in one minute. Hence the practical inference, that we cannot, by the length of time a person has lived after having taken poison, predict with precision the amount of it that had been
taken. Again, much depends upon concentration, dilution, and other circumstances, fully treated of in former pages.
The chicl questions of a toxicological nature which have, so fire remained unconsidered, but which will now receive attention, are,
Is Prussic acid an accumulative medicine? If Prussic acid be given for a disease, and death occur, to which is the death due? If the Prussic acid were not the immediate cause of death, might it not have accelerated it ? Can a person, afier taking a fatal dose of Prussic acid, live a sufficiently long time to attempt or perpetrate suicide in any other way? and, Was the poisoning accidental, suicidal, or homicidal?
Is Prussic Acid an Accumulative Medicine?-The affirmative seems to be favored by a case of $\mathrm{Dr}_{\mathrm{r}}$. Baumgartner's, which is quoted by Dr. Christison, and by an instance which Mr. Taylor says was communicated to him. Dr. Lonsdale, however, believes the reverse; and Dr. Guy states, "That the weight of authority is in the negative." Serious effects, it is true, have often followed slight augmentations of the dose; ;ut as such do not fall within the panel of its accumulative effects, they do not pertain to the present question-to which, from the deficiency of facts, by which alone it could be determined, the most appropriate reply seems to be, It is highly probable that Prussic acid is not an accumulative medicine.
If Prussic Acid be given for a Disease, and Death occur, to which is the Death due?-Decidedly not to the Prussic acid, if it had been administered in medicinal doses, which it is presumed it had been, since in these it operates, as Percira says, "without producing any alteration in the condition of the general system." Again, it is neither a corrosive, irritant, nor narcoticoacid. Reasons sufficiently powerful to justify the assertion, that, in a small dose, it is not contraindicated in any morbid state. A major dose, if exhibited, would be improper in those states of the organism whose amalogue it induces, unless, indeed, "similia similibus "curautur" be a correct doctrine. 'To such a case the above question would be particularly applicable, for, not unlikely, the disease, in ste, was not fatal, and would have been conquered by proper treatment, so that presumption of poisoning would be justifable. When, however, a fatal dose has been taken, litte or no doult can be entertained of the cause of death," especially if the draught had not its operation antagonised, and was soon succeeded by the catastrophe.

If Prussic Acid were not the Immediate Cause of Death; might it not hiave Accelerated it?-II is obvious that the death of a sick person might be accelerated in various ways by the negligent or unskilfiul employment of Prussic acid, such as by administering it when contraindicated or useless; by its precluding the employment of remedial agents that would have been serviceable; by its being taken in comparatively large doses by a patient already dying or aflicted with a mortal illness: These are merely a few examples of the phases that this question may assume, and which, with others that might appear, can ouly the
determined at the special case originating them, by " seeing events in their causes, obviating consequences, and ascertaining contingencies," "by which the mind will be inured to caution, foresight, and circumspection."

Can a Person, after taking a Fatal Dose of Prussic Acid, live a sufficiently long time to attempt or perpetrate Suicide in any other way?-It has already been shown, that a delay of three minutes occurred between the swallowing of gr. v. or gr. vss. of anhydrous acid, and the commencement of the symptoms, and that no delay occurred after the maximum doses, as gr. xl., of pure acid. From which the inference is justifiable, that if the dose be not a very large one, sufficient time exists for the person destroying himself in some other way, provided that the mode of death is an immediate one, and the means for its accomplishment readily attainable, and not complicated. When, however, the dose is an excessive one, no time exists for a second suicide, unless, perchance, everything for its performance were prepared before, and the death could be instantly effected on drinking the poison. Thus; if a person who stood on a stool with a rope's noose round his neck, and its extremity attached to some fixed point above, were to drink off such a dose, and immediately thereafter throw himself forward, his death would be due to the hanging, or strangulation, not to the poison, since death from hanging, or stangulation, is, ceteris paribus, instantaneous; and the schedule shows that the shortest time the largest dose of Prussic acid has proved fatal is two minutes. In a case, thercfore, where the above question would be mooted, it would be necessary to oltain, before coming to a conclusion, a correct history, and every attainable circumstantial evidence.

Was the poisoning Accidental, Suicidal, or Homicidul ?-This is "a most important question, when the life of the deceased happens to be insured." Accidental poisoning plays the least important part of the three, it and homicidal heing of far less frequency than suicidal, which is to be looked upon as the rule, and they as its exceptions. The solution of this question is difficult, since it is to be attained by means which are frequently unattainable. The knowledge of the motive with which the poison was given or taken, oflers an example of this. Thus, if it had been taken or given unintentionally, the case would be one of accidental poisoning ; if it had been taken intentionally, a suicidal one; and if it had been given intentionally, an homicidal one. Circemstantial evidences will aid most in unravelling this question, examples of which will now be mentioned. If the poison had been taken from a wrongly or non-labelled bottle, or mixed with dietetic articles; the presumption is, that the case is either accidental or homicidal, and if many persons partook of the food, that it is accidenta! rather than homicidal, though the latter is not improbible. If the poisoning occurred in a child or an aged person, it is ustally accidental or homicidal, as suicide in such is comparatively rare Accidental would be most likely in the young homicidal in the aged. If a person be found poisoned in a room, all communication
between its interior and exterior being cut off, the of copper, either alone or with tincture of guaiacumb: case, in, all probability, is, one of suicide; but if, on formed precipitates, or insoluble compounds, with the contrary, there be ready access to the room, it might have been cither accidental or homicidalo. The possession of any of the acid that had not been swal. lowed, would favour the supposition that the poisoning was accidental, its non-possession that it was homicidal. The vehicle and poison may also be discovered in suicidal cases, though less frequently than in the accidental : The denial by surrounding, friends, especially if disinterested, that the deceased was poisoned, would usually indicate that it had been accidental or homicidal. As several instances have been adduced which might be either accidental or homicidal, the following circumstances are mentioned, as their consideration may serve to discriminate the one from the other, and either of then from suicidal: "The suspicious conduct of the accused before, during, and after the illness or death of the deceased; his knowledge or experience of poisons and their properties; the possession of poison, and the fact of his having purchased it under false pretences, the existence of a motive or inducement to such a crime; the previous state of mind of the deceased, and the degree of probability that he would commit suicide." Quantitative analysis might detect homicidal from accidental poisoning, by determining the amount of anhydrous acid in equal quantities of that which had been taken, and of that which was said to have been given accidentally; tho fist containing a very much larger proportion than the second, Ina former page it was suggested that the occurrence of a shrick before death might be present only in the accidental and homicidal, and therefore distinguish such from suicidal. The determination of suicidal or homicidal has hinged on the question, which has been previously answered, had, a person, after taking a fatal dose of Prussic acid, sufficient time to cork the bottle, put it away, and perform other voluntary acts?. Sucli occurred in the case of Rex versus Freeman.

Treatment to be adopted for the Recovery of Persons who have taken Fatul Doses of Prussic Acid.-The three main desiderata of attainment in the treatment of poisoning in general, are, the production of vomiting, the administration of the antidote, and the alleviation of prominent symptoms.

The Production of Vomiting. This is rarely sought for in cases of poisoning by Prussic acid, for after the symptoms had commenced, it would be perfectly use less,gas well as decidedly improper, from its excluding the employment of more appropriate measures. It may, however, be performed before the symptoms havei commenced, and for this purpose, mechanical irritation of the fauces and the stomach pump are the most appropriate, since they are the most expeditious and certain of the modes for its accomplishment, and it is doubtful whether a person could readily be made to vomit by direct gastric irritants after taking Prussic acid.
Administration of the Antidote.-In describing the chemical analysis of Prussic acid, it was demonstrated that the oxides of iron, nitrate of silver, and suiphate

Prussic acid. This suggests their application in the treatment of poisoning by this agent, since the action of the products they form with it must be less energetic and potent on the economy, than that exerted by: it alone. The administration of nitrate of silver or sulphate of copper would be, however, rather hazardous, and could not safely be ventured upon, since they: are active irritants, and would act as such, if given in: the doses that would be demanded, did they not meet: with the acid, or with a sufficient quantity of it in the stomach-a circumstance not at all unlikely. The same objections do not apply so forcibly to the prepa-: ration of iron, which is a mixture of the protoxidand peroxid; wherefore it is the most eligible. It is casily, formed by adding an excess of carbonate of: soda or potassa to a solution of the common sulphate of iron which has been partly peroxidized; the mixture is to be preserved in a stoppered bottle. The result: of its union with Prussic acid is Prussian bluc, which is an insoluble and innocuous salt: With the same intention, rust, the precipitated green oxid, green vitriol or the muriated tincture, alene, or in combination: with alkalies, may be tried. Munefield stated that cyanic acid was hambess, though cyanogen itself was poisonous: now, it is not impossible that, by the inhalation of oxygen, or the administration of oxygenated water, Prussic acid would be converted into these acids. Thus, $\mathrm{H} \mathrm{Cy}+2 \mathrm{O}=\mathrm{Cy} \mathbf{O}, \mathrm{HO}$, or cyanic acid. This, however, is a mere speculation of mine, baseless of observation. Other substances, as chlorine and ammoniacal gases, have been brought: forward as antidotes, lut further on it will he shown that they do not enter into combination with the poison, and deprive it of its virulence, by forming with it an harmless compound; in other words, that they, are not chemical antidotes. Admitting, then, that the oxides of iron are an antidote to Prussic acid, but little practical advantage is obtained from them when the system has been affected by fatal doses of the poison, which it is with astonishing rapidity; for if it be presumed, that to do so it must have lef the stomach or its receptacle, and entered the circulation, the inutility of the antidote becomes palpable, since it can only subvert the malignity of the, poison by coming: in direct contact with it while unalered, and that could only be in its primary receptacle. Even supposing that only a portion of the acid was absorbed, that the antidote was administered, and neutralised the remainder, uo bencfit would the reby, be gained; for it is well known that it should be used before, or at farthest immediately upon the supervention of the symptoms, since those already in existence are suffit ciently competent, per se, to destroy life, and it has already been shown, that a very little of the poison suffices for this purpose. The antidote, to be available, should be kept ready prepared, which it is not likely it always would, and even:if it were, it would be of little use, as the medical man rarely sees his patient before the commencement and progress of the: symptoms, when, as appears by the above, it would
be useless.: The antidote can, therefore, be only in its employment, and a priority should be given to it serviceable before the symptoms commenced, and over other agents, since, to use the words of Mr. then a safer procedure would be the evacuation of the stomach of its contents, so that recourse to an antidote at this time is not indispensable. After recovering the patient from the more urgent symptoms, by other means, the antidote, though possibly superfluous, may be exhibited in order to render "assurance doubly sure."

Alleviation of Prominent Symptoms.-The most: constant of these are, diminution or cessation of the respiration and heart's action. Abolition of consciousness, volition, and sensation. The means for their alleviation are, cold affusion, chlorine, ammonia, arificial respiration, and external stimulants. These, it seems to me, prove serviceable by creating an agency subversive of that of the poison; to accomplish which they exert a stimulus upon the nervous system, through it keep up the respiration, the perpetration of which is followed by contractions of the heart, the effect of which is, the continuance of the sanguincous circulation-the fountain of life. That the above hypothosis is correct, is in a mensure proved by the cases and experiments on animals alluded to in a ormer page: from which it was alleged that the effects of restoratives, during poisoning by Prussic acid, are to cause deep inspirations. Ammonia cannot, as was supposed, be useful by entering into chemical combination with the poison, i. e., as an antidote, since a soluble hydrocyanate would be formed, and all the soluble compounds of Prussic acid are as energetic as the acid itself. Chlorine has been said to abstract the hydrogen and free the cyanogen : but, if such were the case, hydrochloric acid gas, a corrosive and cyanogen, a powerful poison, woulf still remain in the system. Independently of the above five principal means of alleviation, there are others of less importance, which act in a somewhat aualagous manner, and which will shorty be mentioned. Occasiomally, after the establishment of respiation, sympoms of congestion, especially of the oncephatic circulation, exist, aut require hood tetting for their removal.
Each of the means that is applicable for the alleviation of prominent symptoms caused hy fatal doses of Prussic acid will now be detailed, and a few observations will be appended to the inore important of them.

Cold Alfusion.-Its great advantages are, that the necessaries for its accomplishment are always attainable, and that it may be empluyed at any stage of the poisoning, though with most prospect of success when the dose has been barely sufficient to destroy life, and the more advanced symptoms, as convulsions, have not supervened; when, according: to Herbst, its effcacy is almost certain. It has frequently been successful even when there has been insensibility and paralysis, and then the occursence of convulsions was an indication of its utility; the retrogression of the symptoms showing its efficacy: Its effects are usually instantancous, and marked by a speedy return of senisibility and consciousness. No delay should chpse

Nunuelly, " of all the remedies I am acquainted with, I should be disposed to place most reliance upon cold affusion," for it has succeeded in rousing when stimu-: lants have failed to do so. It may be performed by an assistant, while the medical man is engaged in tie application of the other remedies which require more intelligence and circumspection. The readiest mode of doing so is to fill a jug with the coldest water that can be obtained, and to pour it in a continued stream"from at height on the patient's head and spituc, One circum-: stance is, however, never to be forgoten, and it is, that while allusion or aspersion is serviceable, immersion, or their excessive use, is injurious; for it is as a shock that it is useful, and in as far as it chills the surface, it is injurious in all those cases, where death not taking place very promptly, the surface is blue and cold, and the respiration oppressed, in this state wambh, friction, and stimulants are strongly indicated:"

Ice, or Frigorific Mixtures, have been advised to be applied to the nape of the neck; their use will always: be supplanted by cold affusion, after the employment of which they may be resorted to if deemed necessary.

Chlorine.-A solution of it has been strongly recommended to be injected into the stomacli, or, tif the patient could swallow it, for him to do so. The dose of the aqua chlorini (D. P.) is 3 ij ., properly diluted; and repeated ad effectum. Enemata of it have also been suggested. If the patient can inhale, he should, breathe very cautiously ar impregnated with the gas. A temporary and occasional application of the gas itself to the nostrils, would probably be most beneficial. Percira says, that chlorine is the most powerful of the agents cmployed; and Taylor, that it is a remedy of doubtful character: An objection to it is, that in order: to obtain all its benefits, both the gas and liquid should he available, which it is not likely they will generally he in cases of emergeney. Chlorine gas should always he properly diluted before being inhaled, for when pure it produces asphyxia, by closure of the glotis. Suiostances containing this element, as bleaching powder, Labarraque's sulution, aqua regia, \&c., might be used in its absence, if proper precautions were observed.

Ammonia may be employed in all the ways suggested for the use of chlorine; of these, inhalation is the most eflectual, and, according to Orfila, any other mode is useless. The most serviceable of its preparations would be the gas, the water of different strengths, the spirit with or withou' aromatics, eau de Luce, and the three carbonates, especially the sesqui. Pereira affrms, that it is of less value than chlorine; it will be, howe ver, more often at hand than it, when required. When using it to the respiratory mucous membrane, the application must not be excessive, either from its too great length or strength, and thus on inflammation, with its consequences, will be avoided in those portions of it with which the vapor has come in contact in its trajet: In the absence of ammonia, the fumes of burnt feathers might be: applied to the nostrils, and it should be remembered that the former can always be easily getierated by triturating sal ammoniac and lime together.

Other stimulants, as brandy, ether, turpentine, \&c., may be administered by the mouth or anus, and possibly, if oxygen, or protoxid of nitrogen gases were attainable, their inspiration would also be adjuvants in recovering persons from the poisonous effects of Prussic acid.

Artificial Respiration.-"This," says Pereira, "ought never to be omitted; of its efficacy I am convinced, from repeated experiments on animals." Like cold affusion, it has a special claim on the practitioner, from the ease with which it may be performed, and the fact that it is always available. Expiration is performed by making "powerful pressure with both hands on the anterior surface of the chest, the diaphragm being at the same time pushed up. Inspiration is effected by the removal of the pressure, and the consequent resiliency of the ribs."

External Stimulants.-Under this head are placed frictions of the surface in general, or in part, as of the chest, with stimulating embrocations, the bases of which usually are, ammonia, spirit, turpentine, acetic and dilute mineral acids', mustard, cantharides, camphor, capsicum, rosemary, \&c.: Here, also, are included the maintenance of warmth and the application to tiie extremities of plaisters, or cataplasms, compounded of ingredients analogous or identical with the above. The symptoms indicative of a necessity for the use of stimulants, are those which originate from sluggishness of the circulation, oppression of the respiration, inperfect decarbonization of the blood, and diminution of animal heat.

Electricity and Galvanism have been recommended to be applied to the spine. They should not be employed to the exclusion of cther means, as cold aflusion and artificial respiration, which are known to be effectual, less complicated, and always available. These, therefore, should first receive a fair trial, and on their fialure, they, as dernier resorts, might be ventured upon.

Bloodletting.-But little requires to be remarked concerning it, for the cases demanding it have been mentioned in an anterior page, and it is a remedy rarely resorted to. Of the different vessels, the jugular vein has been advised as the most suited for the operation.

As a conclasion to the treatment of poisoning by Prussic acid, it may not be uninteresting to note the order in which the different remedial agents may be used with most advantage. If the symptoms liave not begun, irritate the fauces; wash out the stomach thoroughly by the pump, using for this purpose waier, holding in suspension the mired oxides of iron. This accomplished, it may alone suffice to preserve life, but it may be as well, or even necessary, to try cold aflusion for a short time, and for the patient to keep ice or frigorific mixtures to his head and spine, to smell every now and then ammonia, or inhale chlorine, properly diluted, for a cartain period. If the symptoms have commenced, immediately proced with cold aflusion, and the use of chlorine or ammoniacal gases Do not exaggerate the affusion or aspersion into immersion, and abstain from it when death is dilatory; the surface blue and cold, and the respiration oppressed; here maintain heat, and employ external stimulants. With regard to the gases, they may be applied pure at first to the
schneiderean membrane, in the manner mentioned pre-: viously ; subscquently inhaled, if properly diluted, and afterwards solutions of them administered by the movilh or anus. If the respiration have ceased, keep it up artificially. The more grave symptoms conquered, the different internal stimuli may be judiciously resorted to, and attention is again directed to oxygen and protoxid of nitrogen, which, if they be not antidotal, are certainly vital stimulants, and serviceable in perfecting and maintaining the arterialisation of the blood. The application of external stimulants is to be instituted by assistants, whenever there are symptoms requiring them, and the medical man is engaged in the use of more important means. Electricity and galvanism may be used when everything else has been fairly tried and failed; for it must never be forgotten, that two simple and available means will, as a rule, save the patient, if he is saveable, and they are, cold affusion and artificial respiration, neither of which should ever be omitted. The after treatment will, in a great measure, depend upon the symptoms that are predominant. Thus, if they are those of congestion, blood-letting will be required, and it is preferable that the source whence it is derived be as near as possible to the part oppressed. If symptoms of sinking occur, recourse must be had to the usual diffusible stimulants. The ferruginous antidote may be administered if it be thought that any of the poison remains in the stomach, while a patient is under the influence of stimulants, by whose agency he had recovered from the immediate symptoms of danger. Great care must be observed in combining any of the agents that have been advised, and to do so, a knowledge of chemistry is indispensably necessary, for without it, the practitioner may directly pervert the end he had in view; the death of his patient being the fruit of his ignorance. Thus, if chlorinc and ammonia, as inhalations, be administered together, nitrogen gas, a noin-supporter of life, and muriatic acid, a corrosive poison, would be the results. If ammonia and oxygen, water would form the residue, and nitrogen be freed. I will not multiply examples, as they would not strengthen ais assertion that does not admit of denial.

Art. XLIV.-CASES OF GUNSHOT woUNDS, OC. CURRING IN THE MONTII OF JUNE IN PARIS.

By Geonde 1). Gibb, M. D.;
Licentiate Royal College of Sargeons, Ireland.
The following cases of gunshot wounds of the head and face, are some of the most interesting which occurred in the city of Paris during the eventful days of June-I have necessarily abbreviated them for fear of occupying too much space in the column's of your Journal, and on a future occasion shall send those of the chest, abdomen and extremities, if you think them worthy of insertion; I may remark, that they fermed the subject of a paper which I read before the Parisian: Medical Society.

The first case is that of an elderly man, a National Guard in the hospital of La Pitié, with a gunshot wound of the head; the ball had entered the right side of the forehead, penetrating the frontal bone, and becoming lodged in the cavity of the skull; on the 24th July he
presented the symptoms and appearances of a man labouring under organic diseaso of the brain, his brows were contracted; there was a peculiar stupid expression about the face, stiffness of his limbs, with nervous agitation and slight subsultu; the wound itself was circular, with irregular margins, and much larger than an ordinary musket hall, pus was oozing from it, and its centre was occupied by a greyish slough: $z$ portion of the dura mater. $\Lambda$ week after, he appeared much improved, was more collected and answered questions rationally; the wound was still suppurating, and the rise and fall of the brain, synchronous with the respiration, was beautifully seen; he complained of pain all over the head, but particularly at times near bis left ear. At the present time there is a great improvement in his appearance, his face appears quite calm with a little fullness about the right eye; his faculties are perfect, he sleeps from five to six hours nightly, his appetite is improving, and his pulse 72 , quite soft and compressille; he complains of soreness at each side of the occiput; the wound is coming on very well and is now closing, and the discharge of pus is greatly diminished. The surgeon, M. Michon, lately removed some small splinters of bone, and this morning (24th August) removed a few more from the wound. The man's feelings and appearances are such, together with his general improvement, as to permit of the most favourable prognosis.
2. Case in the Hopital Beaujon, of a captain of the 27th Regt. of the Line, who had received a wound in the head in June, the ball entering the skull a little above the supra-orbital ridge of left side, fracturing it, passing through the substance of the brain, and making its exit behind the left ear through the squarmous portion of temporal bone, and grooving the mastoid process externally ; a portion of the cerebral substance escaped through the posterior wound at the time of its infliction, and an abscess subsequently formed under the integument at the back of the ear, which was opened about 17th July: This patient, on admission in June, was highly delirions, requiring to be forcibly held down, and was copiously bled. 7th August; his intellect is wavering, he talks all sorts of nonsense, and addresses the surgeon, M. Robert, as "Aon Genèrale." His left eyelid is closed, the eyeball is not destroyed, but the sight is entire! y gore; the wound anteriorly has healed to the size of a large pea. Fron this date he became. gradually worse, and died on the 10 th instant. $\cdots$ Autopsy. - That part of the brain traversed by the ball, and to some extent around, was a mass of thick pus; a portion of a musket ball, (about one-third, of an irregular form, was found near the internal surface of the posterior wound, evidently detached as the ball was passing through the temporal bone; almost the entire brain was in a state of ramollissment, and the lateral ventricles were filled with sero-purulent fluid.
3. A frightful looking case of an elderty man in Lia Pilie, wounded in June; a musket ball had entered the skin in front of the right ear, passing forwards anteriorly, carrying away a portion of the malar hone with fracture of the fromtal bone, and destroying the cye: cxtensive sloughing followed, leaving a most terrible wound; the surgeon, M. Michon, stated that on admission the cerc-
bral substance was exposed, he had, bowever, been very actively treated, and is now doing well, hat will be much disfigured. This case presents some points of intorest, the extensive fracture exposing the brain without lesion of its substance, the total loss of the eye, and the occurence of the wound from a shot fired nearly behind the man.
4. A case in the Holel Dicu. A wound produced by a ball on the right side of the vertex of the head from before backwards, laying bare the skull, but without a solation of continuity in its substance; the patient had paralysis of the left arm with loss of sensation and motion supervening on receipt of the injury, which, however, disappeared in a few days. The bonc is exfoliating, and the case otherwise doing well.
5. Gase of a soldier of the Line in the Hopital Beaujon, where a fragment of a ball had struck the right side of frontal eminence, fracturing both tables of frontal bone, and becoming lodged in the diploe, the brain and its membranes were uninjured. "The fragment was removed, suppuration of the wound commenced without any bad symptom, and the patient was discharged weli, about a week ago.
6. Case in the Holel Dieu of a Garde Mobile; where a ball had struck the right incisor teeth of inferior maxillary bone, fracturing it, and passing through the right side of floor of the mouth into the substance of the neck on the same side, where it still remains. The wound in the mouth has healed, the two central and right lateral incisors, canine, and one bicuspid tooth are gone, the fracture has united, but the callus is not yet absorbed, and there does not exist that amount of suppuration to be naturally expected from the lodgment of the ball. The shot was fred from an upper window near one of the barricades.
7. Case in the hospital of St. Antoine; of a soldier of the Line, where nearly all the upper lip, a portion of the septum of the nose, the alveolar process with front teeth of upper jaw, and a small part of the front of the roof of the mouth were shot away by a muskel ball; the severe wound resulting is now nearly healed, excepting some redness and swelling on left side of the face near the nose. The surgeon, M. Nellaton, intends very shortly to remedy the deformity, by a rimoplastic operation.
8. An interesting case in $L a$ Charité, where a musket ball had passed completely through the face of a Garde Mobile, aged 17, cntering on the rignt side through the malar hone, and passing out of the same bone on the opposite side; there is litte or no deformity, and both wounds have perfectly healed.
9. A case equaliy interesting, in the Hopital Bcaujon, of a Garde Mobile. A musket ball entered the right side of the face, at the side of the ala of the nose, passing through the superior maxillary bones, and emerging through the cheek in front of the anterior border of as. cending ramus of left side of lower jaw; a number of the left upper teeth were lost here, and the remainder are quite loose and ready to drop out. There is some deformity on the right side of the nose, from present redness and swelling near the wound, but the case is otherwise progressing favourably.
10. Case in the hospital of St. Lomis, of a soldier of the Line; where a ball had entered the stuperion maxilthry bone under the left eye, close to the malar bone, where it was lodged; it was extracted the rlay of admission in Junc, and now the wound is perfectly healed, and the patient discharged.
11. Case in the Hotel Dien, of a Garde Mobile. 'A ball had entered the left cheek near the angle of the mouth, passing obliquely downwards, and backwards, inside of the lower jatw, escaping under it, and emerging in the border of the trapezius muscle; a highly interesting case, as the jaw was not fractured, nor the carotid artery wounded, and the course of the ball was slightly circuitous; it is doing very well, with some suppuration from the posterior wound.
12. Case in St. Loutis, of an insurgent, where a ball struck the external angular process on right side of frontal bonc, fracturing it, and passing inwerds into the socket of the cye, where it was lodged; extensive inflammation of the eye followed the receipt of the injury, which was treated antiphlogistically, and is not cven now subdued, the eyelid remains closed, and there appears to be a partial collapse of the eye itself. The ball was extracted with some difficulty on the 16 th , and in three days after, the patient was removed to the prison of St. Lazare, much improved, but with very imperfect viṣion.
13. A case in Hotel Dieu. A ball entering nver the nasal process of superior maxillary bone, on left side of the face, passing downwards, under the integument, and coming out through the lip, over the canine teeth of same side, the ball did not penetrate the deep structurcs of the face, and the shot was fired from an upper window of a very High house, the patient (a National Guard) boing in the street below. No bad consequences followed, and the wound is perfectly heales.
14. Case of a National Guard, aged 30, in St. Louis. A ball had passed through the ala and septum of the nose from right to left, traversing them in" such a manner as to leave their inferior borders intact, and at same time not to injure the ossa nasi. The orifice of the wound had contracted, after the passage of the ball, and was small and irregular. The surgeon, M. Jobert, feared scrious consequences might possibly arise in this case, as he thought erysipelas would follow upon the wound of the cartilage, while at same time a shock communicated through the vomer might have been suffficient to do some iniury to the small bones at the base of the sloull ; fortunately this last supposition was incorrect, and no bad symptoms indicating the occurence of any such irjury followed. Erysipelas did, however, attack the wound about the 4th day, and spread rapidly over the face, it yielded to proper treatient in three or - four days, and the case then progressed rapidly without further mischicf, perintting of his discharge in the th week, curcd.
15 Case ais the Hotcl Dicu. The hall hat entered the thouth just below and to the outer side of its teft bangle, passing backwards anil making its exit near the posterion forder of the ascending ramus of left side, fracturing the horizontal ramus of the jaw in its course; this ease is doing very well, some fragments of the bone have
come away through the month, and a litte deformity remains at its angle.
16. Case in the Hopitial Beaujom, of a soddier of the Line, who had fallen against a large stone while storm. ing one of the harricades, severely wounding lis right cheek, and sustaining a compound fracture of the lower jaw; the wound in the check is now healed, but the fracture has not perfectly united; from the wound under the chin some of the comminuted portions of bone have come away during suppuration, he can open his mouth a little, and is fed on a spoon diet.
17. Case in La Charité, of an insurgent, aged $2 S$, who was standing beside a barricade when a camon ball struck it, causing splinters and fragments to fly in all directions. He was severcly wounded by the latter, one mass striking him on the left forearm just above the wrist, tearing a way the shin and muscles, for a space of three inches, but without fracturing the bones. Another struck him on thic left side of the chin and neck, carrying away the front of the lower jaw, with portions of the muscles attached to it, thus producing a most terrible lacerated wound the size of the hand, with rough edges, the skin having also been torn away from the front of the neck as low down as the middle of the thyroid cartiage; the lower lip which bounded the wound idove remained almost intact, whilst the tongue and thyroid cartilage were completely exposed. Greased charpie was at first the only dressing applied, changed afterivards to poultices; the wound progressed more favourably than could be expected, no very bad symptoms ensued, and by the 23rd August it had cicatrized, leaving the patient much deformed, but still possessed of the power of distinct articulation.
18. Case of an insurgent also in La Charité. He received a wound in the neck from a bayonct, which had entered just below the angle of the lower jaw on the right side, almost directly in the line of the carotids, it seemed as if the instrument had pushed them aside in its course; it passed upwards and slighty forwards, piercing the root of the tongue, passing between the teeth, and finally perforating the centre of the left check; no hemorrhage occurred, the orifices of the wounds were contracted, very small and slightly triangular; they heal. ed very quickly, as did also the track of the wound, and the patient was one of the first sent from the hospital to the prison.
19. Case in Ja Charite of another insurgent. A ball struck the left choek, passing through it and then the dorsum of the tongue, escaping through the floor of the mouth, on the wight side. When brought into the hospital his tongue was strongly retracted, and suffocation from this cause so imminent, that the surgeon, M. Velpeat, was obliged to draw it forward and secure it by a suture. On the second day he was still suifering from impeled respiration, owing to the enormously swollen state of the innguc, which now protruded from the mouth for tivo inches; and almost filled the circle of the lips, it was dry and brown on its upper surface and fissured, the rest was of an intense red. He could not speak and made known his feelings and wants by writ. ing, he described particulaty the sense of immediate suffocation, and expected to die almost hourly, this was
much increased when in the recumbent position, he was therefore obliged to pass several days and nights sitting on a chair, resting his head upon the bed in front. On , the 4th day a copious salivation commenced, which, by keeping his tongue constantly moist, added greatly to his comfort. As the inflammatory symptoms subsided, the tongue gradually diminished in size, and his respiration became easier and more comfortable. 23rd August. The wounds are healed; he now breathes with freedom, his tongue protrudes for about an inch, and can be drawn a little invards, and he can articulate indistinctly. No particular treatment was adopted in this case.

Paris, 26th August, 1848.

## Art. Xlv.-Phrenological sketch

Of the character of Dr. Wm. Dunlop, Late Menber of I'rrliament for the County of Hiron.
By Dr. G. Russell, Montreal.
Having been particularly requested to draw up a sketch of the Phrenological character of Dr. Dunlop, as furnished by a cast of his head, taken after his death,-now in my possession,-I willingly do so. From that cast I will, in the first place, state, in a tabular form, the comparative developments of the various phirenological organs, according to the scale uniformly adopted by me, viz: "very small, small, moderate, average, full, rather large, large, and very large": and, sccondly, I will endeavour to delineate, in gencral terms, the character indicated by the developments so obtained.

## Size of Head:-Vory Large.

 domestic prorensrties.Amatitcress-Love for the opposite ves.-Small
Philoprogenitiveness-Love for children.-Very large.
Adhesiveness-Friendship.-Very large.
Inhabitivencós-Liove of home- Rather large.
selyisil riopensities.
Conbiatiocness-Disposition to uppose-conrage-Very large. Destructivencss-Disposition to injure:-Full.'
Alimentiveness-Desire for food.-Very large.
Acquisitiernes - Desire for priperty.-Average.
Secrelivencss-Disposition to conceal.-Full.
gelfisi sentiments.
Cautiousness-Fear-sense of danger.-Full.
Approbativeness - 1 ave of praise-Fall.
Self-esteem-Self-respect.--Very large.
Firmness-Decisioa of character-Full."
Concentrativencss-A_plication--Full.

MOAAY AND RESIGIOUS EENTMEATP.
Oinscientionsness-Mustice--Full."
Bericrolente-Kindness-Larir.
Venerafion-Disposition to worship.-Ruthen lage.
Hope-Expectation.- Rather large.
Alarellousness-Belief, wonder--Verysmall.
\#\#nH-INTELLECTUAL IACHATIES.
Consthtuctivendes-Contrivance.-Moderate. Alcality-Love of the beautifil-Small. Sublimity-Love of the sublime-Large. Imilation-Ability to copy-Moderate. Mirthfulness-Wit.-Large.
mtelabctualongans.-percertive fai uities.
Individuality-Knowicdge of things.-Very large.
Form-Perception of shape--Large.
Size-Pcreeption of dimension.-Large
Weight-Equilibrium - power ot judging of phyaical furec.Very large.
Colour-ierception of colour--Very large.
Order-Neatness-love of order.-Fuli.
Calculation-Ability to compute.-Avernge.
Eventuality-Mcmory of evente-Vary large.
Lacality-iMemory of places.-Very large.
Time-Memsry of duration-the lapse of time-Very large. Tunc-Perception and love of melody.-Full.
Language-Micmory of words.-Full.
reflectina or reasoning faculties.
Comparison-A bility to analyze-to illustrate.-Full.
Causality-The power which discovers the relations between canse and effect.-Average.

The head is one of the iargest which I have ever examined, measuring round the superciliary ridges, and the occiput, twenty-four and a half inches. Size of brain, cocteris paribus, is the measure of mental powers; therefore, a man with such a brain, having an ordinary icmperament, would have a powerful influence on the society in which he moved. It must be confessed, however, that the mental power indicated by the above measurement, is only that of the animal part of human nature.

From a likencss of the Doctor, which I have obtained through the kindness of a friend in Toronto, $I$ would infer that his constitutional temperament was a combination of the sanguine.bilious. If such was the case; the would have a strong, robust, physical constitution; his activity would be more of a physical than of a mental character. This temperament, in combination with his very large combativeness and self-esteem, would give him a love for the athletic sports of the field, and he would be disposed to pride hinself on his bodily prowess. From the insuficient data presented by the castalone, it appears as if, towards the close of his lifeg the nervous lymphatic tomperament predominated. Inthis case, the would be characterised by habituinl indolence; ;but when roused by any matter of importance, he would display great mental energy for a time, until again overpowered by his wonted love of casc:

Ali his domestic organs arc large, with the exception. of Amativeness ; hence he would evince great fondness: for children, and the associations of hearth and home would excite powerful emotions in his mind ; but Ideality, as well as Amativeness, being deficient, there would be
a marked want of refinement, tenderness, and delicacy in his conduct towards the fair sex. His strong friendly feeling would be appreciatcd by all who were intimate with him, although to a partial acquaintance he might appear sometimes to take rather equivocal methods of showing it. His strong social propensity, with his large Mirthfulness and Alimentiveness, would render him a first rate boon-companion. He would take a pleasure in bantering his comrades ; and although the play of his wit would be something like that of a giant, who would not take into consideration the keener sensibilitics of the inferior beings with whom he sported, yet there would be no malignity in his sallies.

He would be a daring and reckless enemy under opposition, but a magnanimous conqueror.

Firmness is scarcely large enough to render him consistent and straighiforward in the maintenance of fixed principles. There would be a good deal of the epicurcan in his philosophy.

He would be naturally sceptical in regard to religious matters; indeed, he would be very much disposed to doubt, if not to reject, everything which could not be proved by observation and experience. Nevertheless, he would be disposed to pay deference to religious ordinances, and manifest a regard for ancient and timehonoured institutions. He would, generally speaking, be an independent, thinking man, although very much disposed to yield to the solicitations of friendship.

He would have nothing of the fop or the monkey about him. He would despise every thing like hypocrisy and sham; care very little for general popularity; be inclined to rail at what the world calls fushion; and the sighing sentimentalist would find no sympathy with him.

He, would be rather too careless in regard to money matters. If he had sufficient to meet his present necessities, he would be too much disposed to let the future look out for itself.

He would be rather deficient in some of the improving, refining; and elevating sentiments of our nature, which, taken in connection with: great perceptive powers and animal propensities, would render him a dry, plain, blunt, rough, home-spun, matter-of-fact sort of a person. It is inferred that his intellect was powerful but inpracticable; a very large hrain, greatly developed in that region which gives the power of acquiring knowledge, while Constructiveness, Ideality, Imitation, and Casuality, were comparatively much inferior, these later being the faculties that enable us to turn our know-* ledge to some useful account. He would be a great experimenter without a pre-aranged plan; he would be disposed to rely too much upon his own progressive
experience, wihhout sufficiently considering the new circumstances or contingencics to which he might be cxposed.

In regard to the fine arts, he would be very eapable of detecting the most minute faults in the works of others, yct his general taste in such matters would be so peculiarly his own, that very few would be willing to acknowledge its superiority.

From the powerful combination of certain organs that he possessed, he must have had an almost super-human memory of facts, circumstances, and details. He must have had excellent powers of describing and illustrating; and his anecdotes would gencrally be "io the point."
His pictures would be strikingly graphic, without much romance or sentimentality about them.
His language would not be copious, but his ideas would be clear, terse, forcible and expressive. The bayonet would be his favourite weapon in batte, and in argument, likewise, he would generally depend upon the charge.

Upon the whole, the cast before me indicates that the man from whose head it was taken, was mentally a great, strong, rough, generous, and magnanimous individual; but from the same datum, 1 an compelled to say, that he would not be disposed to trace the relations between the vast concourse of ideas that thronged his mind, and great fundamental principles. "Facts are said to be stubborn things.". He would be master of a mighty army of facts; but in consequence of some of his superior officers being ineflicient, that army would most likely exhaust its energies rioting in Canno, while it ought to have been baticring Rome.

He would be rather too much a man of the present, and very much disposed to think, considering all things, that well fed slaves are better off than hingry frecmen.
Such is a very imperfect sketch of the character of this extraordinary man, which I have drawn phrenologically from the cast before me., It is quite possible that I may have erred in some of my'deductions. However, the cast may be examined at my cabinet by any person desirous of doing so ; and whether or not it affords any evidence of the truth of phrenology, let those deterninie who were best acquainted with the character of Dr. Dunlop.

Ant. XLVI--TIE DUTLES AND RESPONSIDILITIES OF PIIYSICIANS TO INSANE ASYIUMS.
By A. Von Ifeland, M.D., Resident Physieian, Beaupit Lunatic Asylum.
Dr. Conolly very properly and humancly ubserves, "a lunatic asylum is not intended merely to lie a place of security, but a place of cure, and that every case is curable or improvable, up to a certain point" The cure
of the curable, the improvement of the incurable, and the comfort and happiness of all the patients, should be the constant study of the physicion. But, as has been observed ly an anonymous, fat eloguent writer, (it was asked by Plato, as it is sometimes asked even at the present day), " what has society to gain by the protracted existence of lunatics? What in England, too, whose popalation, according to some philosophers, is increasing so much faster than subsisteuce?" Much. It is a law of nature, that every man should be liable to innumerable diseases-secure from mone. No one can look forward with certainty to a constantly serenc cours. The beart that beats well to-night, may tail on the morrow; the subte bain, playing in all its, might, and throwing of thick coming thoughts, may in a day be cast into irreparable disorder. You stand secure, calm, believing stedfastly in your fate, but know you all the secret cells of madness? Have you good security against exposure to its causes? Your passions, may they not be overstretched; your enthusiasm exalted? The extraordinary circumstances in which youare placed, can they not lead to distraction? And cannot that fortune, the riches, friends, household staff of happiness, on which you count in all your calculations, desert jou in the hour of trial? Oh! there are many ways to madness. What, then, sustains the provident citizen under the diseases which hang like threatening clouds over his life, and the lives of his dearest friends? Is not the consciousness that if disease should come, cvery means will be employed calculated to restore the body to health; that if the afliction prove lasting, it will be outlived by tenderness, and that at last, the head will lie let fall gently upon the breast of the parent earth.
If we bear in mind, that insanity is a malady which plays through the whole range of the human characterthrough all the faculties and functions-in al! possible modifications of sensations, of the propensities, of the perceptions, of the feclings, and of the intellect; and, consequently, displayed in different instances, in every possible form of external manifestation, we must be readily convinced, that a medical superintendent of the insane, before undertaking his important duties, should be one who, by long study, experience, and application, is enabled to direct his inguiries into the means of influencing, regulating, and restraining, their abnormal psychical phenomena; and so of gradually changing their character. In the commencement of the inquiry, some might suppose, as Dr. Thumam observes, that such strange and unusual manifestations of mind, would reguire some equally unusual special agencies to be called into play: for their suppression ; and this principle has, in fact, been too generally acted upon in fermer times,
and in some degree, even in our own day; and it perhaps affords the best apology that can be offered for the cruetties and habarities which have been so umblush. ingly resorted to in the treatment of the insane.

It is a well established fact, that throughout Europo and the Unied States of America, the appointments to the offices of physicians to insane institutions, are never confirmed without the strictest inquiry into the qualifications of candidates, extending not only to their practical aequirements in every branch of medicine, \&c., but to their experience in the treatment and management of the insane; and when we take into consideration the prudence, shill, amd tact, which are called fer in remoring sourec: of disquietude, in presenting fresh motives of action, aml in directing the thoughts of the patient from hinself and his disorder, into other channels and to other oljects, and thus permit the power of self-restraint the opportunity of developing itell, we cannot certainly bat appreciate the exaction of the highest moraland scientific qualifications for the office.
Even the importance of the duties performed by atiendants on the insane, in connexion with proper moral treatment, renders their selection and superintendence a task of considerable difficulty; indeed, as a celebrated psychologist cbserves, " the moral and intellectual qualities to be desired, though not always to be attained in all who come in contact with the insane, are of no ordinary kind." In their general character, they most nearly rescmble those sequired in an instructor and guardian of youth, and though they are perhaps of a still more peculiar deseription, and require the union of great kindness of heart and of manner, with decision of character and firmness of contuct; at all events, in the language of the poct Coleridge, it may he sail with as much propricty to the one as to the other-
"Love, hope, and patience, these must be thy graces,
And in thine own heart let them first keep school;"
and it may be added, in allusion to a certain public exhibition of lunatics, "take no pleasure in the folly of an idiot, nor in the whims or fancies of a lunatic; make them the object of thy leve and pity; not of thy pastime. When thot, alas, beholdest them, behold how thon art beholden to Him who suffered thee not to be like then. There is no difference between thee and them, but God's favour."-Quarle's Enchividion.

We need scarcely report here, that insanity is not an individual and separate disease, but embraces a large varicty of morbid conditions, which are characterised by symptons physical and psychical, almost as various as hose of all other diseases in the nosology put together ; and, conscquently, the physician cannot test, as in other uniform and individual diseases, the
efliciency of paticular plans of teatnent by the numerical method; but how is the physician to deserimmate these cases and conditions, and then aply the corresponding and appopriate remedies, uniess lone experience and olservation have qualified him? and, moreover, how will he be onabled, unless by these all important attributions, to determine whether the mental disorder depends upon primary disturbance of the hrain and nervous system, or whether dependent on some sympathetic derangement arising from disorder in distant organs, but particulany in those of the digestive, circulating, cutaneous, or utcrine systems? It is upon these inquiries that the experienced plysician can obtain a correct diagnosis, and by appiyng the remedies applicable to the disordered bodily functions, acquire one great step towards the restoration of the patient, when at the same time the patient is removed from all external causes of excitement, and suituble moral treatment is resorted to, for the purpose of directing and strengthening the mental assenciations, and of giving scope for the due exercise of the healthy powers and feelings of the mind, there can be no doubt that he is placed in the circumstances most conducive to recovery.

It has been truly observed by the excellent $\mathrm{D}_{\mathrm{r}}$. Conolly, that "the duty of a physician to a lunatic asylum, is difficuit and peculiar, and comprehends a wide and careful survey of every thing that can favourably or unfavourably affect the health of the mind or the body." He has to regulate the habits, the characters, the very life of his patients. He must be their physician, their director, and their friend. The whole house, overy great and overy trilling arrangement, the disposition of every servant, should be in perpetual conformity to his views, so that one uniform idea may animate all to whom his orfers are intusted, and the result be one uniform plan. The mannere and lan: gunge of all who are employed in the asybum should but reflect his, for every thing done, and every thing said in an asylum, is remodial, or humful. By such a system alone can it ever he proved to what extent the cure or the improvement of the insane is practicable.

That he should be a person maturlly benevolent is indispensable; and it is cxtremely desirable that he should possess an almost inexhaustible patience. The qualities to which, of old, mieh importance was attached,-a commanding stature; a stem maner, a fierce hook, a loud voice-have become etherunneesssary, or positive disqualifications. Theats or reproofs, seconded by these attrihutes, miy terrify the pationts, bat they loosen the bonds of affection, and generate
feolarg whith will hurst fort into expression in the next parexym, or revengefn tosigns, which will wait their time; even remonstrances, to be successful, must be calm and carefully timed, loing addressed to the aflicted rather than the fanty. If sielness lays open all the delusions of hee, madness often shows all human weaknesses marnified, and they must be viewed with never friling charity, at no time forgetfil that the dispositions so exhibited are impaired and deformed by insmity. The good feclings of the insane are oftea disordered-seldom destroyed-control over them, and over the propensities is often lost-the will in nowiso consenting. The illastrious Pinel, who well and intimately know them, says, "I have no where met, except in romances, with fonder husbands, more affectionate parents, more impassioned lovers, more pure and exalted patriots, than in the lunatic asylum, during their intervals of calmness and reason;" "and all my own experience," says Dr. Conolly, "confirms this raluable testimony; and to persons retaining so much feeling, all severity must he misapplied."

If the authority of the physician is properiy maintained, a task, which would be irksome and insupportable in other circumstances, becomes less difficult and produces solid gratification. His labour is considerable, but the elject is great and gnod, and the effects are real and appreciable. At their various occupations, he sometimes sees and cheers them. After the labours of the day, he converses with them, and helps to dissipate the gloom of their cuenings; he often sits awhile by the side of the irritable and desponding until he has soothed them. He visits those who are sick, or disturbed, or meditating death. Re solved, therefore, to make the asylum a place where every thing is regulated with one humane viow, and where hmanity, if any where on carth, should reign supreme, the resident physician must be prepared to make a sacrifice of some of the ordinary comforts and conventionalities of life. His dhties are peculiar, and apart from common occupations; his socicty, even, must chiefly consist of his patients; his ambition must solely rest on doing good to them; his happiness, on promoting theirs. Now but those who live among the insane, can fully know the pleasures which arise from imparting trifling satisfactions to impared minds; none else can fally appreciate the re ward of seanig reason retaraing to a mind long do pived of it ; nohe else cat fully know the value of diflusing comfort, and all the bessings of orderly life, among those who would either perish without care, or cach of whom would, if out of the asylum, be tormented, or a tormen:
tor. Constant interconrse, and constant kinduess, can alone obtain the ir entireconfidate, and this confulence is the very key-stme of all shecessful manarement.

Thus living, and thas occopice, the resident physician will learn to here his poople, with all their infirmities, which awe their allictions. The asylnm is his world, the patients are his friends; inmble, but not without cyen delicate consideration for ohers ; wayward, but not malignant, except when cuelty exasperates them; capricious, but not magrateful; distrustfil, but to be won by candour and truth; disturbed and grievously aflicted, hut not dead to some of the best and purest affections. He will almost regard his patients as his children; their cares and their joys will beceme his, amb, humanly speaking, his whole heart will be given to them.

26 h July, 1848.
(To lic Contimued.)

Ant. XLVII.-Tracts on Generation. By T. L. G. Bischoff, Professor of Physiology, Giessen. Trans. lated from the Germun by C. B. Gilman, M. D., Trofessor of Obsteirics, \&c., College of Physicians and Surgeons, $\mathcal{N e w}$ York; and Tieonore TellEstipf, M.D., Gebhard Professor, Columbia College.
This is the first number of a scries, proposed to be puilislica on ensbryology, in the investigation of which Professor Bischof has taken an important part, atd, in the tract before us, seems to have established the truth of a fact hitherto supposed uncertnin. It woull be a work of supercrogation to lay before our readers all the opinions of embryologists on the characters of the Granfian vesicle and corpus lutemm; let it suffice to say that the ovule was observed in the fallopian tube by De Grat in 1668, an observation confirmed by Dr. Haighton and Mr. Cruickshank; but Steno first pointed out the analogy between the, at that time, so termed testes muliebres and the ovaries of fishes---" non amplitis dubite (he writes in Finctitorum myologia specimen) quin mulierum testes cuario analogi sint;" and De Graf, following in his stens, more bollly avers-we may be pardoned for giving his own words-"ova in omin animalium genere reperiri confidenter asserimus, quandoguidem ea ron tantum in avibus, pisebibs tam oviparis quam vivipars, sed ctian quatrupedibus ae homini ipso cvidentissime conspiciatur." As, however, the ovale was not discovered in the Grafian vesirle, its presence in the tubes was suppoed to be dife to ifs fecumbation by the semen, and it was not till 1827 , we belicve, that Von Bacr, now at St. Petersburgh, satisfactorily aseertained its situation andexistence in what may be termed
its receptacle, namely, the Gratfiai vesicle; and now arose another doult, mhitimg the pre-existence of the ovele in the ovary, is its discharge into the tube the ctlert of the concurent action of coition and is maturation-. or is it, whely, the result of he hater, and totally independent of the former? Up to a very recent date-till the investigations of Lee, Patterson, Jones, Negrier, Gendrin, Raciborski and louchet, were made public, the prevailing idea was that an ovule was never discharged from the Graafian vesicle, and that, consequently, a corpus luteum was never formed without actual and effective intercourse; hut the tract of Dr. Bischoff, in detailing numerous experiments on hitches, ewes, sows, rabbits, rats, Ace, made with great carc and dexterity, and in describing the condition of the ovaries of four young women, in whom there was indubitable cvidence of menstruation at the time of death-proves, we believe, beyond a doubt, that the "periodic maturation and discharge of ova are in the mammalia and the human female, independent of coition, as a first condition of their propagation." His first experiments were made on animals with which coition was permitted while in heat-(a pre-requisite to fecundation,) but precautions were at the same time taken to prevent the actual contact of semen with the ova-by extirpating the whole, or excising parts of one or both of the uteri, by putting ligatures on them, \&c. \&c. ; in every instance every change in the ovary and ova was produced as in the normal state, the vesicles swelled and burst, corpora lutea were formed, ova were detached, passed into the tubes, ant wore there discovered in number corresponding to the corpora lutea; but as fecundation, - the action of the semen, -had been prevented, subieguent development of the ova was arrested, they retrograded, passed through a process resembling liquefaction, and were discharged effete. Another observation which Dr. Bischoff made, still more decidedly exhibits the independence of the action of coitus:
"With the intention of asccriaining to what point the male semen penctrates in bitehes at ine tise of coipion, I had hepit a strong, healthy young bitch, which had never been covered.Since all depended upon my knowing, with n!solute certanty, the time of the first coition, I kept hee in my civn house and watched iner carefully. In the heginining of June, 1843, I ol. scred that she was near the time of heat, the dogs began to follow her cagerly, and blood was diseharged trom the vagina; on Friday, Junc 9 h, she did not allow herself to be covered. I then chained her up and isolated her stactly till the 11th, at threc-quarters past one, when 1 pht a doy to her, and shic wais covered for the first time. That this was a first coition wasi cus. dent ly ber esistance and cries. As soon as the coition was over, I extirpated the left uterys, aviry, and tabe, and closed tho womd by suture, I first examined the userus, and found it quite full of spermatozoa in active motion. I intented next to cramine the tube to find whether the semen had penetrated into it, but while preparing it, on laying pare the ovarics, I saw, to my astonish. mont, that the ova which I had certainly expected to find in the Graafian veriele, had been already diselarged from the ovary, fer
there were five sumall opunings on the ovary, from one of which a little red mass prujected; five Grastion vesicles had, therefore, already burst. The formation of the corporat lutea had even made some progres, commencing the base and on the walls of the follicles; they even presenfed a considerable cavity filled with limpid seruni, in which, however, no ovan was contance. If was now apparent to me how such a state of hings had possibly led former observers, who were ignorant of the ovole, to the belicf that the follielus were not yet opened. I gained at once tho full conviction that they had opened, by fuding the fivo ova near each othe in the tube, about two inelies from the fimirie. Nothing new resulted from their invertigation; they had, in every respect, the characteristies which 1 had already scen in ova at this period of their development, and were entirely identical with the perfectly mature ovarian ovole. I looked in vain throughout the whole tube up to its uterinc orifice, for snermatozoa; nowhere was a single one to be scen, and I spent so much time gnd care in this search, that I venture to assert most positively that the semen had not yet entered the tube. Next mornmg, it 10 o'clock, twenty hours later (ivilhin which time I had, in my former observations, usually found that the semen reached the ovary), I ordered this bitch to be killed. The right ovary showed five small openings, and five corpora latea farther developed, and in addition quite a larec Graafan vesicle, not yet ruptured; the tube contained five ovis, which had progressed beyond its middle, and were soveral lincs apart. Three of them were quite normal in their condition, and similar to those of yesterday, but two were plaimly abnormal and abortire, the zona indistinet, the discus proligerus incompletely developed, the vitellus a small irregular mass of yolk granules. I now found epermatozoa in the lube, partly in motion, partly not; they had, however, penetrated not more than thice lines beyond the uterinc orifice. The whole remaining portion of the tube contained nonc, nor was there any vestige of them upon or around the ova; the ova hatd coidentiy not been fecunduted.

I believe that this obscrvation incontestibly proves, that the ova, when matured, leave the ovary and penelrate the tube, without any influence of the coitus. That it had not taken place before the time whein I oberved it, may be considered as ectain, in view of the great carc that had been taken ; that the ova had been discharged by any influence of the coitus camot for a moment be adnitted, becriuse,

Ist. It is certain that coition does not always produce thiscfect, as I myself have found that after coition had been frequently repeated, the Graaiian vesicles were still clused, and,

2d. As it cannot be imagined that the ova had, in the short space of a quarter of an hour, passed over tivo inches of the narrow Fallopian tube, since it requires, as we know, eight days to pass the other two or threc inches. If, therefore, quite independently of coition, the ova actually leave the ovary; and pass, unfecundated, into the tube; and may remain umfecundated after a period of twenty hours-wo are first to inquire how this agrees wilh my former observations, in which i found in bitches six, cighteen, or twenty hours after the first coition, the Graufian vesieles still closed, and the semen then penetrated through the whole extent of the tube, and even upon the ovary? The answer of these inquiries evidently is, that when the uva are mature, fecundation is possible within certain limits of time and space. It depende, as it appars, on the peculiaritics of the anmat, and on the occurrence of opportunty, whether coition is consummated while the ova are still in the ovary or nut till they are already detached and have cotered the tuive. Were aumals placed in perfectly natural circunstances, and opportunity offered for coition, it appears probable that the sexual instinct wotid exhibit itselt before the ova wore discliarged. If coition be at that time consummated, the semen may penetrate inrough the tubes to the ovary, and this, as my fomer observations have shown, may take place in twenty hours. Other bitehes admit the dogr later, or, perhape, opportunity is wanting, the animal being, us in the casc above detailed, Jocked up,-then the ova are nome the less detached, and may eyen atter that, if coition take phace, be fecmdated: how long this is pmssible, I cannot say with ectainty; butes bitches gencrally admit the male for the space of cight dnys, and as the first manifestations of development in the orum, the division of the yolk, begins in the lower portion of the tube, wherethey are met with about the ecvenh or cighth day, it ap-
pars that this is ile limit within which fecundation of the ovm is possible in the bitch."

Subsequent experments were made, and thesc without the concarrence of intercourse, and at the hazard of making our extraets too lengthy, we reproduce them in the author's own words.
"On the 4th January, 1844, I removed the genitals from a sow, which had already for forty-cight hours shown the strongest signs of heat, but had not been put to the huar; 1 fomed that the Graafian vesicles had not yet ruptured. Upm both ovaries there were, however, quite a nurber of these, strongly developed and temartable for the existence of large vessels, and a slate of san. guincons congestion. Although none of these vesicles were yet tuptured, I removed from one of them, which I had detached from the ovary and opened upon a plate of glass, an ovale; it was, as usual, surromided by the cells of the disk, whieh were still round and not at all drawn ont into tibres. The dimeter aeross the zona was 0.0060 inch. The ritellus, which consigted for the most part of pretty large fat globutes, did not entirely fill the cavity of the zona.

Afier I had removed the cells of the disk with a needte, and had placed the ovole flat upon a phate of glass, it had increased in diameter to 0.0068 inch, and now completoly filled the interior of the zona, while, at the same time, its clements were somewhat spicad, and there appeared upon one point of its periphery a clear round spot, which those familiar with it would recognise as the germinal vesiele, although its margin, being covercd with yolk granules, could not be defined.

During the examination, a slight pressure crushing the ovim, the germinal visicle with its germinal dot passed out; the latter was of considerable size, but by no inerease of the magnifying power used, could any further details of, stracture be made out.

This animal had evidently been killed at too carly a period, at a time when the progress of the heat had not gone so far as the opening of the Graafian vesicle, and the discharge of the ovalc.

A few wecks carlier, on the 4 th Deccmber, 1843, I had cx. amined the genitals of a sow which had from youth been krpt from the boar. The owner assured me, that lie had perceived several times before, indications of her being in heat, and that these had cxisted for some time before she was killed.
As to dates, however, he could not give the neecssary particulars.: On examining the ovaries, fresh corpora lutea were found on both.

On the right, cight, each of the size of a large pea, and pro. truding consequently beyond the surface of the ovary:
Their color was dark, brownish red." In all, at their most prominent point, a small spot of vivid red was perceived, but a dis. tinct openiag was no longer to be seen; yet when the tunica propria of the ovary, with its scrous covering, was detached from the surface of such a corpus lutem, then it becane cvident that it was penctrated by a small opening just at the red spot.
The corpora lutea consisted of a superficiai layer of tleshlike granulations about a line thick; as they are always thus deve. loped on the inner sarface of the Graafian vesicle, in its transition to a corpus lutcum.
'This layer inclosed a considerable cavity filled with a dark red coagralum of blood, which was closely adherent to die granulations. In none of them could I diecover an ovule.
On the left side there were two corpora lutea of the same deseription, and near them two othere, much larger, almost transparent and of a shining red colur. The small red spot appeared on their most prominent points. The superficial layer was much less descloped than that of the others; it confained a trambucent reddish coagulum, and also a quantity of uncoagulated fuid, which, however, coagulated on being poured on the plate of glass and exposed to the 'air.
Soon afterwards, I received the genitals of a young sow which had never been pregnant. I was sure that flie had been kept apart for thirteen daye. Five dayg before, the first- indications of heat manifested themelves, and after there hat already begun to decline, the animal was hilled om the morning of the fifth day.

The first glanco at the ovarics satisfied me that the ova wero alrcady discharged, for on une of them seven, on the other six, $r$ csh corpora latea were developed; no opening was found in hem, sor did they present any longer the large cavity filled with

Hood or scrous'fluid; but the Gra:fian vesicles were already as nanal quite filled with granulations; and the place of rupture could casily be distinguishod by its deeper reducss.
I procecded at once to examine carcfully the tube, eleven inches long, with its numerous folds, particularly the first half, by removing the epithelium from portions of it, and examining it under a cimple microscope. I succeeded in finding ten ova in the hwer portion, about two to four incties from the uterine orifice. They were at some distanec apart. When observed under the microscope, they appeared in general similar to ovarimn ovules which had lost the discus proligerns. Their diameter was 0.0064 to 0.0068 inch $=1.13$ line $=1.6$ millemeter nearly. Not a vestige of albuinen was found around the zona, which formed the single thick envelope of the ovum; with most of them it was 0.0005 inch $=1.17$ line or 1.8 millemeter. The yolk in most of these ova did not completely fill the interior of the zina, and varicd in its diameter from $0.00 \pm 0$ to 00054 inch $=1.51$ line $=1.9$ to $\tau .50$ millemeter.
In its composition the same larger fat globules were fuand, which distinguish the ovarian ovale of the sow, hat they were generally unequally distributed through the yolk, so that the latter had an irregularly spoted appearanec. The vuthine of the yolk was in this instance so sharp, that it might casily have led one to belicve in the existence of a peculiar yolk membrane. Especially was this the case in certain positions of the microscope. This has happened to Doctor Mayer, in regard to the ovum of the sow ; but the same precautions to which I have afready referred in regird to the ovum of the ewe afforded, in this instance also, full proof that no such membrane existed.
Of the germinative vesicle I conld discover nothing; but in some ova between the yolk and zona the palo granule was again found, which I supposed to be the nucicus of the germinative pesicle, the germinative dot, as I have before stated."
Among his arguments he introduces a fact utlittle known, relating to the castrated women of India. It is communicated by Dr. Roberts, in his travels from Delhi to Bombay.
"The individuals ${ }^{\text {bo }}$ cexaminced were about twenty-five years old, of large size, quite muscular, and in full health; they tad no mamme; no mipple, no hair on the pabis, the oritice of the vagina was completely clused, and the pubic arch so narrow that the ascending ramus of the us ischium, and the descending ramus of the pubis of the opposite sides, cume almost in contaci. The whole pulic region showed no deposit of fat, and the nates were not mure developed than in males, while the rest of the body had the usual quantity of fut. There was no trace of menstrual secretion, mor any discharge vications to it ; no sexual appetite."
And he adds, that recent anatomical proofs have been furnished of these induced deviations from the nomal type.

The later part of this pamphlet is taken up with claims to priority in the views advanced. The atthor seems inclined to give credit to thooe who have laboured in the same field-to Duvernoy, to Raciborski, W. Jones, Professors Lee, Patterson, Negrier, and Gendrin ; to Mr. Pouchet, especially, doess he give great prase, who has been second but to himself. Pouchat " made the matter in the highest degree probable, but he has not proven it.": Pouchet showed "، that the ova were matured in the ovary during the heat" (and menstruation); Bischoff "that they cntered the tube."

We have purposely, though such was not our original intention, made our notice of this "opusculum" longer than is our wont. Its originality, its deep interest, and its recent date, have cansed us to be anxions to give our
readers the latest views on a subject in which all-are socially, and medical men specially, concerned.

ArT. XLVIII - Descripition of an Apparatus for the Automatic Enregistration of Magnetometcrs and other Meteorological Instruments by Photography. By Charles Bnooke, M.B., F.R.S., F.R:C.S.E., from the Philosophical Transactions. Part I., for 1847. London: R. \& J. E. Taylor ; 4to.
The method proposed by Mr. Brooke, based upon photographic principles, and thercfore easily recognised, ellects a most important improvement in the registration of the perturbations of the magnet, whether in the form of oscillations, or suspensions, or shocks of magnetic force; and is applicable to the barometer, thermometer, or, indeed, any meteorological instrument. whose variations it is of moment to measure and indicate at the instant of occurrence. The plan proposed is now in the course of adoption at the Meteorological Observatory, Toronto, and has been employed, successfully, at the Observatory in Greenwich and varions other stations; and we have little doubt will be soon in general use in foreign countries.

## PRAGTICE OF MEDICINE AND PATHOLOGY.

On the Internal use of Turpentine Oil in Cases of Hamorrhage. By L. Percy, M. D., Lausanne, Switzerland. -The anthor, after noticing the fact that several writersAdair, Nichol, Johnson, Warneck, Copland, Ashwell, and Pereira-have spoken of the efficary of the essential oil of turpentine in hemorrhagic diseases, observes that this reme-dy scems nevertheless to be little used by practitioners. In the cases in which he first made trial of it, inematuria of two ycars' standing, in an old man of eighty, was stopped in twenty-four hours by eight drops of oil of turpentine, and did not return. He has since used it in different cases of hamorrhage, and always with a favourable result. The cases in which its use is imdicated are those of passive hamorrhage. It must not be employed in cases where there is an active determination of blood, and where the pulse is full. When the discharge of blood is the consequence of organic disease, as of disease of the uterus, or of tubercular disease of the lungs, the action of the remedy is not so efficacions; but the author has seen a case of scirnhes of the woinb, in which hemorrhare was for some time stoped by this remedy. The author has found the action of turpentine oil very rapid, an effect being manifest in a few hours, often after one small dose. In order better to ascertain its power he used it alone, without having recourse to local astringents or cold applications, where he could do so withoit fear of endangering the life of the patient. He has used it most frequently in cases of menorrhagia and epistaxis; but he mentions, that it appears to him to be particularly applicable in the cases of hmorrhage attending typhus. He roticed the Fact that turpentine exerts different actions on the body according as it is taken in large or small doses, being more readily absorbed in the latter case; and he remarks, that as its bencficial action in cases of hemorrbage must depend on its being absorbed, the inference would be drawn, that the doses in which it is given in such cases ought to be small.

His experience confirms this conclusion. He has always found a dose of from eight to thirty drops sufficient. The best vehicle for it is atmond emulsion, with a little gum arabic. When there is pain in the abdomen, a few drops of laudanum may be added.-Dublin Medical Press.

On the Hygienic Influence of Cutting the Haiv.-Medical men are occasionally asked whether it is proper to cut the patient's hair; whether, in fact, this operation has any influence upon the health. M. Fredericque resolves the question by giving the following illustration :-

A little girl, aged three, of good health in general, had her hairgrown excessively long in the course of a few months. She was a beautiful child, but had latterly wasted without any apparent cause, becoming dull and apathetic, losing her appetite and strength without any organic lesion being discernible. There was an anomic bruit in the carotid. She was piaced upon a tonic regimen, with chalibeates, but without deriving material bencfit, until her hair was cut short, at the suggestion of a friend, from which time she rapidly gained strength.

It would appear from this case that the economy had suffered aloss in the expenditure of. blood necessary for the secretion of the abundant crop of hair. M. Fredericque considers that it is the formation of the colouring matter which chiefly exhausts the blood, as this is formed at the expense of the hæmatosine.-Annales de Socicte $d^{3}$ Emulation; Revue Medico-Chirurgicale.

## SURGERY.

On Choroiditis or Infammation of the Choroid Membrane of the Eye." By Dr. Jncob.-In trating of the inflammations of the eye affecting particular structurcs only, and not extending to others, or involving the entire eycball, it becumes mecossary to consider whiether tho choroid is liable to be so attached. Have endeavoured to lead the pratitioner to the belief that in the more frequent or usual intlammation of tho cye, commonly callediritis, the whole organ is, if not frum the commencement, at least in the progress and sequel, eagaged ; but I have also endravoured to explain how far some of the cumponent parts may lie the eeat of inflamatory action withoul corrcsponding disease of the rest. That the choroid in all general inflammations of the eyeball participates in the altered vascular action cinnot be doubted; but whether it is ever inflamed alone, and without extensiut: of the disease to the parts in contact and continuation with it, is not so certain. That there is a medification of inflammatory action; called choroiditis, presenting such peculiar characters as to cutite it to be conyidered of distinet specific nature I admit, but I doubt the correctness of the inference that its seat is the choroid sxclusively. It may be said that this is a difference about words, i dispute as to a name; but when it is recollected that the name given to a disease necessarily indicates its character, and therety influences its treatinent, the question assumes importance. Howcver this may be, "choroidtitis" is one of the forms of inflammation of the eye now very gencrally admitted by writers, teachers; and practitioners; Dr. Mackenzie of Glasgow; especially, has insisted upon its clams to distinct specific character, and has given : so correct a description of the origin, progress, and termination of the disease, that 1 camo do better han introduce it here He calls it, however, sclerotico charoiditis, which proves that he does not consider the discase to be confinced the choroid exclusively :-
"As the choroid coat is completely hid from view, and exercises but a subsidiary function, it is not to be wondered at, uhat while inflammation of cvery other part of the eye has been accuratcly discriminated' that of the choroid has hitherto seareely at tracted attention. In an carly stage, choroiditis is one of the least' striking of the ophthalmix ; wien far advanced, the signs of disorganization which a tend it are more remarkable than those of vascular action; and while the effects are too scrious not to have attracted attention, and even recesived particular names, the
cause of these effects, and the seat of the original disease, have in gencral cscaped observation.
"I have already had occasion to mention that iritis is occasionally attended by inflammation of the churoid. Were we to adopt the common notion, that the iris is a continuation of that nembrane, we might be led to conclude, that choroiditis and iritis should always go together. Perhaps, in some degree, this may still be the case- At the same time, from the principal arteries which nourish these two parts being quite distinct in thcir course and distribution, the idea of a separate irits, and separate chorividitis, is $a$ priori rendered probable.
"For some time, the separate existence of choroiditis was with me rather a mater of sipeculation, and a conclusion from anaiogy, than a fact ascertained by observation. I an now con. vinced, however, that the choroid is sometimes the seat, almost quite independently, of inflammation; that in certain cases of ophthalmia, it is the focus of the disease, and tiat the neighbouring parts may be as litte affected when that is the case, as the scicrotica is in iritis, or the iris in selerotitis. That it is of impor:' tance to distinguish the discase which I am now about to describe, will appear cvident when we consider its dangerous nature. Its symptoms, ns we shall immediatcly sec, are very different from those of any other ophthalmia; and allhough ultimately the whole cye may be involved by inflammation commencing in the chorvid, yet chorruditis, in the early stage exists without any signs of discase in the irs, and without any other cffects upon the selerotica and retina than thuse which must necessarily arise from the pressure of an inflamed and swollen menbranc, placed in contiguity with other membranes more or less susceptible of suffering from that pressure. I consider choroiditis, therufiere, us completely a primary and distinct diseasc. At the same time it must not be overiouked that choroiditis is apt to le superadded to other ophthalmie, and especially to scrofutoses corneitis and iritis, and to arthritic iritis.
"The subjects of choroititis are gencrally adulta, and more fre. quently femalcs than males. Thusic of serofituous constitutionfire more subject to it than others. I have very treely seen it in ${ }^{\text {i }}$ children.
"Nymptoms : Redur, os.- One or more of the rectomuscular ar-: terics are enlarged, and rummerg towards the edge of the cornca, are seen to end there in a broul hash of small vessels. There is scarcely ever any general redness over the eycball, or much in, flamation of the conjuasiva. 'ine portion of the selerotica sub), jacerat to the enlarged vessels frequently presents, in the viily stuge of the discase, a thickened athe fleshy appearance. Thio conjunctiva also appeaza thickenc!. It is prabable that, even' in this early stage, a protematural uthosion takes phaee hetween the seleroticia and the charoid.
"Discoluration of the White of the Biye--If the discatse is, checked betire any other symploms manitest themselves than those already mentioned, the pmirtion of seleroteca which was infiamed, frequently continues to apper thiekencil, hiut gradtually assunics in opaque white colour : hat if the disease proceeds, the exterior tunics of the cye, by and hy, hecome rttenuated, so that the chornid shows jits dark colour hrough the sclerutica, which therefore appears blue or purplist. This is one of the most remarkable symptoms, and takes phace in many cases at a very cahly period of the discase, the blucness shining obscurcly through tlie inflamed sclerutica and conjunctiva. We often ubserve one parth of the sclerotica thickened and loaded with enlarged vossels, und another part thimed so as to allow the choroid to shine througlia. The degree of discoloration, is diffirent, according to the sevecrity and duration of the altack, being at the early stage merely, per ceptible on comparing the discased with thic healhy eye, or thit discused side of the cye with the hectlthy side, white in advanecd. cases it amounts to a decp, bluc.. Abut the eighth of an inch behind the edge of the cornca is the most frequent situation of the discoloration, which genorally occupies unly one side of the if eyc, but. sometimes surrounds the cornca completely. $1 i$ is at first narrow in extent; but afterwards becomes lpouder.
"Sclerotico-chorvil Staphylona--A fter continuing for a tinio discoloured inerely, the part affected protrudes. The selerotica and choroid having become proternaturally adhicent;' and being softened in their texture frem the inflammation they have undore, gone, lose their supporting power. Atrophied and thinned, thicy, cannol sustain the contents of the eyeball, bat give way and be-: cone protraded. As the previous redncss and consequent thiming:
of the sclerotica commonly occupy only one side of the cycball; so does the protrusion in question. The protrusion is generally near the cornea, as if the corpus ciliare was the seatio the discass, and more frequently above, or to the temporal side of the cornca, than below, or to its nasal sude. In some cases, thore is only one protrusion, which may enlarge to the size and prominence of a filbert; in others, a number of tumours, of various sizes, surround the cornca; while, in a third sct, the whole cye is enlarged, and the selerotica attenuated in its entire circumference. Such tamours, or protrusions of the choroid, have received the names of cirsopht!almia, varicositns oculi, hernia choroillen, staphyloms corporis ciliuris, and staphylona sclerotica:. They generally prosent numerous varicose vessels ramifying over them.
"The front of the eyc, however, is not the only scat of staphyloma of the sclerotica and choroid. Scarpat telis us that he had never met with any tumour or elevation of the selerotica on its anterior surface, resembling a staphyloma; but that he bad twice happened to meet in the dead body with staphytoma of the poste. rior hemisphere of the selerotica.
"Displacement of the Pupit.-Although the iris is seldom affected with inflammation in chordidits, the pupil, in many of the cases which I have witnessed, underwent a remartablie chme of place. The inis is always narrowed towards the portion of the choruid which it affected, and in many instances, the pupilis observed to have moved so much out of its natural sithation, as to be almost directly behind the edre of the cornca. Upwards, and up. wards and outwards, are the dircetions in which the phipil is most frequently ubserved to become displaced. It oceasionally continues small and moveable, in other cases it is momovable, but not difated; in very severe cases it is greatly enlarged, the iris having entirely disappeared at that part of the eimennforence thwards which the diaplacement of the pupil has happeneal. The pmpil does not return to its place, even alhongh the other symptoms of choroiditis are subducd. Ve sometimes observe the iris, in cases of choroiditis, to be of a slate colour, and the thanit to be more or less filled with lymph. Those change: denote the previons existonce of iritis.
"Opacity of the Cornea.-is not a necessury, although a frequent attendant on choroiditis. It is gencrally the edge of the cornca nearest to the portion of allected chorod which becomes upaque, soms to resemble part of a broad areus senilis, or as if the selerotica were intruding on the cornea, the sest of the comeat remaining perfectly clear. In other cases, there are pretty exten. sive but very irregular spots of whiteness, more the effect apparently of interropted nutrition than of infiammation. In some cases I have observed the comea smaller than matural, but more frequently it not only becomes almust quite opaque, but partaking in the staphylomatous degencration of the neighboring selerotien, it ceven andergoes a degree of dilataton, sio as to become considerably broader and more prominent that in its natual state, and searecly distinguishable from the attemated celerotien, I have sometimes thonght that in secit cases, a watery ellision
 the cornea and sclerotiratextornally, and the ins and chorvid internally. From the effection of the comea atotie, in such cases, independently of the interior changes of the eye, the patient's vision may be almost or altogether list:
"In consequence of choroiditis, the eye may enarge so moch as to protrude from the orbit to a very considerable degree, without muchinflammation of the selerotica and conjutietiva, these tunics being merely thianed by the pressure of the dis ended chicroide After a time, however, the cye, in this state of exophthalmos, is apt to suffir frum external inflammation, in consequence of being but imperfectly protected by the lids, or it may be in consequence of cold or mechanical injury. When the inflammation, thus excited, runs to a great height, the conjunctiva becomes chemosed, puriform fiud is deposited behind the cornen, or be. tween its lamelle, the eye bursts, continues to swell and protrude still more, assumes a fungus appearanec, bleeds profusely, and being productive of great pain and detormity; evidently requires to be extirpated.
"Intolerance of Light and Epiphora gencrally attend this disease in a considerable degree.
"Pain.-This varies much"in defferent individuals. When there is as yet no protrusion, the pain is moderate; when the scletotica is much pressed and distended, and especially" when this
takes pace suddenly, and is attended with considerable increase of reducse, the pain in the eye becomes severe, and sometimes finrious. Hemicrania is alsu present, affecting principally the top of the head, the high part of the temple, and the cheels. It is not strictly circumorbital, nor is it strikingly nocturnal.
cs Vision is variously affected in choroiditis. In some instances, the very first symptom complainod of is dimness of sight. The pationt gencrally complains of photopsia, and not unfrequently of iridescent vision. Hemiopia, all objects to one or other sido of a perpendicular line, or above or below a horizontal line, appearing dim, all objects apparing confusedly, and as if doviole, cren when viewed with one eyc, are symptoms which not unfrequently distress the patient long before the redness or blueness of the cye attrects attention. If the discase gues on, we sometimes find that total blindness cnsucs, even when the choroid appears but parthatly afiected; while in other cuses the whole cycball is evidently enlarred and discoloured, and yet a considerable degree of vision is retained.
" Recovery is always slow. If the disease bas gone to any considcrable leamth, it is searedy ever completely removed. Tho vestiges of it ate in general permanent, evenafter it has been completely checked in its ;uyress. In muny cases wo may reckon ourselves firtumate if we arrest the discase. Yet it sometimes happens that de cure proceets to a degre beyond our expectation. I attended a genteman who many years belure had lust all useful $y$ ision in the tefl eye frem this discasc. The right was now attacked. Woth pupils were greatly displaced; the visible arterics of the right eye were nuch dilated, and the selerotica at different paces considerbly attenuated; the left cye was onlarged, of a pretty deep blue colour, and a great part of the cornea opaque. By bioodetting, comber-irviation, and other remedies, the discuse was arrested in the right ege, and very micxpectedly the left eye reenered to sueh a dentes, hat be was again able to read with it an ordinary type."

The "redness" whieh Ir. Matkense deseribes above as tho first and must prominent symptam is one of the most characteris: tic features of the discase. Hesays, "one or more of the rectumuscular arterics are enlarged, and ruming towards the edge of the cornea, are seen to end there in a lash of small vessels,' but I think the practitioner cannot rely on this as a constant appearanec to suide him in his diagnosis. The reduess probibly always commences in the direction of these ateries, but it does mit' always appear confmed to their course. The selerotie vascularity in this diseare, in fact, difiers fions the nsual eclerotic vascularity of irtis or general infammation of the eyebath. Instead of being produced by numerons vesets regularly and miformly con. verging towards the margin of the comea, and there forming a pink zone, it is the effect of more insulated ant citcumseribed vas: cular mbergement. It appears at fist, th use more common lamerage, as a small pink pateh in the white of the eye, neat the cornca, thent a quater of an inch in diancter, whe the remainder of the selemie retains its natural whitenas, or is marked by one or more pathes of a simitar nature. The red patehes soon becoms elevated, and asoume a thickoned or fieshy appearance, the conjunctiva often participating litite mo the inflammatory action. It should not, however, be forgotten, that. a vascular pateh answering to this description often remains affer the disappearance of a pustule or pimple in common pustular ophthalmia, and may be mistaken for the change which 1 am describing $:$ but as it be:longs to the conjunctiva, it may be moved over the selerotic by drawing that membranc on one side, and thus bo distinguished. As the discase atvances, these vascalar patehes become diffused and mixed with each other, antil at length the whole white of the cye, or exposed part of the sclerotic, becomes red, although not presenting the usual vascalar arrangement observed in come. mon iritis. Distinct vossels are not visible converging to the cornea, but a general redness or stain, more intense in some places than in others, and more of a light purple tint than the forid or scitrlet vascularity of more general inflammation.

As the discase advances, the change in structure is more conspicuots. The selerotic loses its natural semi-opaque fibrous condition, and becomes thin and transparent, allowing the dark colour of the subjacent choroid to become visible in dark spots or patehes, which ultimatcly become elevated into blue or black prominences or projecting tumours; a kind of hernia or protrusion of the latter membrane from wamt of the support of the selcrotic thus, disorguized. In treating of inflamation of the bye in general,

I alluded to this effect upon the sclerotic, and stated that it was not confined to the peculiar form or variety called choroiditis, but that it often took place in the other species of inflammation. It may, however, I think, be admitted, that it occurs more frequently in the disease now under consideration, although it may take place in any form. In fact, I consider it one of the inevitable conscquences of inflammation implicating the selerotic and choroid of whatever character, when that inflammation is protracted or chronic, or when it is renewed in frequent relapses*" I believe also that it is more liable to oceur in persons of scrofulous habit or feeble frame, and hence its greater frequency in this so.called choroiditis which is seen gencrully in persons of such constitution. In treating of inflammation of the cornca, I also alluded to this effect of inflammation upon the firm or supporting structures of the eye, and insisted upon the fact that this is one of the inevit. able consequences of continued infiammatory action upon such parts, and that it is not to be attributed to any physical forec or pressure, but to the destruction of the original organization or peculiar vital condition of these membrancs. It is not in the in flammation of the eye alone that this alteration in the nature of parts takes place, it is the fertile source of permanent defect and deformity in other parts of the body. When describing the progress and consequences of scrofulous inflammation of the cyc, I ditected attention to the changes in organization and form produced by it, and mentioned that they are sometimes so great and peculiar that they are liable to be mistaken for malignant disease. In the inflammation now under consideration, the same mistalte may be made by those who have_not frequently seen its cffects. The general enlargement of the whole eyeball, deformed by irre. gular black prominences of various shapes and dimensions, projecting from a leaden-coloured sclerotic, crowded with tortuous blue veins, iffords an appearance which even exporienced surgeons might suspect $i$, be fungus hematodes, were it not that the history of the casc, and the flaid nature of the contents, convinces them to the contrary.

As this discase proceeds, wher structures of the eye, besides the selerotic and choroid, become engaged. The cornca, at that part in its margin which touches the original red patch or subscquent dark tumour, becomes opaque, and is some time thin, and permeated by red vessels, so as to form part of the blue prominence; and when severai of these taike place, they coalesce all round the margin so completely, that it forms the centre of one general tumefaction, losing its original correct curvature, and becoming enlarged in its circamference. This extension of the disease to the cornea, when not accompanicd by any considerable formation of separate bluc tumours in the selerotic, but by a general attenuation of that membrane, and miform enlargement of thecyeball, constitutes the disease called hydrophthalmis. It is remark. able that this cxtension of the infammation to the cornca does not induce the gencral disease of that structure, which has bern described under the head of comeitis; the centre of it often remains transparent while all this mischief is in progress.
$\because$ The iris also partakes of the discase. It dues not at the com. mencement exhibit the appearances observed in any of the forms of iritis; but as the sclerolic yields, and the cornea becomes flattened and enlarged in its circumference, the pupil becomes eccentric or drawn to one side, irregular in form, and meapable of contracting ; the colour, also, is changed, and the matural perfect organization disappears. Adhesions are sometimes formed between the margin of the pupil and the capsule of the crystalline lens; accompanied by loss of transparency, and consequent general Hazincss of the transparent parts.

This extension of ite inflammation in this discase from the scle. rotic and choroid to the cornea and iris streng thens the conclusion that it is not a mere ehoroiditis, while the escape of the retina, lens, and vitreous homour, from participation in the malady, proves that it is more or less circumscribed or insulated. It cannot, perhaps, be said that opacity of the lens and insensibility of the retina (cataract and amaurosis) never take place in these attacks ; in some, where the primary inflammation is seyere and rapid in its progress, they undoubtedly do; but it may with safety be asserted that in many cases the crystalline lens and retina are unaffected. I have often been astoniehed on observing the comparative perfection of vision cnjoyed by patients having the whole eyeball eciarged, and the sclerotic and cornca forming one irregu. lar covering of seni-transparent membrane, spotted with dark patches and blue tortuous wins. This disease, whatever may be
the name given to it, appears in fact like corneitis and inflamma. tion of the membrane of the aqueous humour, to be confined to the anterior part of the organ, and not to extend to the decper scated parts, except in very violent and destructive attacks.

Loss, or great imporfection of vision is, from the facts above stated, not to be enumerated as a prominent symptom in this dis. ease. In the first stage, when there are no visible pronfs of the existence of inflammation except. the red patches described, the sight is not much impaircd. 'There may be complaints of a haze or cloud, but none of that alarming loss of sight which accom. panies common iritis; and as the disease advances to its most de. structive degree, there is no corresponding amount of blindness. Pain and intolerance of light are also frequently so inconsiderable that they do not attract attention as remarkable symptoms, although in some cascs they are distressing, and require special care.

Of the nature or causes of this varicty of inflammation of the cye, it is not casy to pronounce a decided opinion. It evidently differs in its original condition, progress, and effects from the more frequent and ordinary species. This, as I have already intimated, I am, however, more inclined to attribute to peculiarity of constitution than to peculiarity of the structure suppssed to be the seat of the discase. In other words, I do not consider it to be a mere choroiditis, but a destructive disorganizing inflammation ennfimed to the more antcrior part of the cye, and including the sclerotic, cornea, membrane of the aqueous humour, and iris. In its naturo it is less active, and in its progress less rapid than common inflam. mation. The redacss is nut so great, or of the same tint or vas. cularity, and pain dues not so gencrally pecompany it. Hence it is more insidious in its approaclics, and by its slow progress more likely to throw the practitioner off his guard. There are excep. tions, but this is, I think, the gencral character of the disease. It is also to be kept in mind that it occurs more frequently, if not exclusively, in persons not enjoying rubust or vigorous health, but suffering from languid circulation and defective nutrition, or even scrofulous diathesis. It also is observed at a particular period of life from about fifteen to five-and.twenty; and in females much more frequently than in males. I do not think I have seen it in children, and do not consider the alteration in shape of the cye, or the dark staphyloma of the scleratic produced by inflammation in persons advanced in life, to be the came discasc. It is also a character of this discase to return or relayse, the final destuction of the organ being generally effected in this way rather than by first and single attacks.-Dublin Medical Press.

On the bse of Chloroform in Surgery. By M. Valielx, Physician to the Hotel Diell.- [We extract the following communication from a late number of the Union Medicale:]

The case of death during the inhalation of chloroform, which has been presented to the Academy of Medicine by M. Gorré, and the discussion to which that communication gave ise, prove, it appears to me, that if the question of etherisation has been perfectly stodied experimentally and physiologically, it has not been so practically. I do not see, in fact, any mention of the three stages of etherisation, whether with ether or chloroform ; it is only by possessitig a perfect knowledre of those stages, that one can practise etherisation with the necessary safety.

I am far from attributing the terrible accident, of which M. Gorre's patient has been the victim, to any defect of attention or observation ; it appears to me, as well as to M. Roux, on the contrary, to result, from the details furnished by that surgeon, formerly a very distinguished interne of the Parisian hospitals, that the canse of death must be sought for elsewhere than in the inhalation of chloroform. But it appears to me that many medical men want an exact appreciation of the phenomena produced by chloroform; that the unfortunate case just related is one of a nature to inspire lively fears in those not familiarised to the use of this substance; and that it would be well to take this opportunity to specify the signs which announce the degree of etherisation, and the moment when it should be arrested. If all this can be rigorously determined, one need no longer fear the painful doubt remaining in the mind after sudden deatls
in the course of operation; "and if the moment when we ought to discontinue the chlonoform has been well observed, or if the stages are regulatly shown, we shall be able to say, with a centainty ahnost mathematical, whether the death ought or oupht not to be attributed to etherisation. If these rules had been well estahlished, M. Gore would not have prosctibed the use of chloroform in so many operations.

For myself, who have employed etherisation in a very great number of painful but stight operations (as cauterization and moxas,) I am not at all disposed to give it up, for I have always been able to arrest its action" in time. I am about to give the result of my experince. There is, doubtless, nothing new in what I am about to say, but I believe that there will be found, in the following expose a litlle more precision than in the usual descriptions ; and it is exactly this precision that is important. . It is with the employment of chloroform as with the administration of centain very active poisons: we ought, before giving them, to know exactly what phenomena they produce, so as to stop jnat at the moment when the therapeutical action ceases and the ;oisonous begins, otherwise we are liable to the most serious results.
Ether and chloroform produce exactly the same phenomena, only the latter acts with an incomparably greater, sometimes an extreme, rapidity. But, even in these latter cases, we may observe three marked stages.

In the first stage, the phenomena of suffocation first show themselves, and then of stupefaction. The patient struggles, but his movements are still subject to his will: thus we often see him carry his hands to the apparatus to withdraw it from his mouth, and push aside those engaged in the inhalation. He still answers questions, and usually complains of a humming noise or sound like the wheels of a water-mill. Sensibility remains.

In the second stage, he can still speak, but he no longer answers questions: he speaks of very different things, which have no relation to surrounding objects; it is a true delirium, absolutely like that of drunkenness. Sometimes there are neither cries, nor songs, nor loguacity; but we notice a phenomenon which is never absent,-it is a stiffening of all the limbs; sometimes, also, violent efforts are made by the patient to escape from those who hold him.

Finally, the beginning of the third period is marked by one or several deep inspirations, and the rapid retaxation of the limbs.
Experience, then, has shown me that while the patient is in the two first stages there is nothing to fear for him; but, on the contrary, when he arrives at the third slage, we must immediately discontinue the inhalation: bad effects may come so quickly at this moment, that we may find it difficult to bring the patient to himself. This occurred to me several times formet!y, but not since I have becn accastomed to watch attentively for the moment I have pointed out.
What renders this surveiliance difficult is, as i have said above, that the progress of the two finst stages may be excessively rapid; I have seen it scarcely half a minute.This time is so short, that one mirht helieve the first slare not yet passed, although the third has alroady atrived. This is the danrer. A very attentive examination is necessary to recognise this joint.

I think that medical men who have not yet practised etherisation, ought at first to study these stares from the action of ether. It will occupy the:n some mibutes longer, but they will see the stages succeed cach other very distinctly, and they will easily recognise them duning the action of chloroform.

Il will necessarily lessen the danger, if the operation be commenced before the thisd period manifests itself. We bnow that this produces no inconvenience, for if the patients
do cry, they have but a very indistinct consciousness of the pain they undergo; they suffer as if in a drean, and that can have no injurious influences.

As to slight operations, if thete be any fear, it is only needful to juerform them daring the second period; the trifling concem of the patient after the operation-on the contrary, his air of gaiety-prove, in fact, that he has experienced very ittle pain.

Finally, in grat operations, etherisation ought to be confided to some one who will not allow his attention to be distracted by the operation, or it may be well to wait until the begimning of the third stage, and then remove the inhaling apparatus before beginning the operation.

What makes me think that, in the case related by M. Gorre, there was some sjecial cause of death, is this, that insensibility supervened immediately, and while the patient was in the act of speaking, that is to say, in the first stage. Sudden and unexpected death is more frequent than is usually suposed; and not only may it be produced by very slight causes, but it may occur without any assignable canse. MM. Roux and Velpeau have acted wisely in fhrowing doubt on the fatal action of chloroform in this unfortunate case. The employment of this substance is become more precious, since, by statistics, we have learned that the results of operations are markedly more favourable when they are performed under its influence. We ought only to admit, after the most attentive examination, and after having submitted them to the most severe criticism, those cases which would tend to make us reject from the practice of surgery this, the so precious discovery of our day.

> Vableix,
> Physician to the Hotel Dicu.

From M. Valleix's letter, it appears that the successive stages of chloroform, so thoroughly understood here, have not yet been recognised in France, where this communication will be of service.
M. Valleix's first stage is evidently the combined effect of chloroform too suddenly administered, and of the want of a proper supply of air. It is very scldom observed here that the paticut feels suffocated, complains of tinnitus aurium, or attempts to push aside the inhaler. It appears that French inhalers admit an imperfect supply of air, like the early English ether intualers; and that, in France, the chloroform is given of the full strength at first ; hence the sense of choaking, and the attempts to withuraw the apparatus.
M. Valleix's second stage corresponds exactly to our second and third stages of chloroformisation. The first, with us, being the stare of excitement; the second, that of intoxication; the thid, that in which there is unconsciousness, stiffening of the limbs, and, in most instances, contraction of the puipils. The latter part of this third stage, that of sopor, is the proper time to commence operating.
M. Valleix's third stage is our fourth, being that of complete muscular relasation, dilatation of pupil, and, in fact, coma; it is, in truth, the stage of danger, and ought only to be reached in attempting to ieduce hernia or dislocations.

The successive stages pass gradually one into the other. If chlorofom is to. be used in the severe minor surgery of cauterization and moxas, so seldom resorted to here, it is well that the exhibition should only be pushed to the state of semi-conseiousness, as M. Valleix advises. This will not, however, answer in dental and minor operations: in minor operations, the patient should be quiet; and in dental surgery, the chtoroform must be pushed to the stage of relaxation or that of danger, as the stiffening of the mnscles of the jaw must he overcome before the operation can com-mence-an insuperable objection to chloroformisation in such cases.
M. Valleix, and the French surgeons generally, do not
seem to iccognise or bear in mind Dr. Snow's important discovery of the accumulative effects of chloroform.--Lon. don Medical Getzette.

New mode of Treating Deafucss arising fion destruction of the Micmbrana Tympani.-Mr. Yearsley (Lancel, July 1,) mentions a simple means of remedying the less of the membrana tympani with which he became accidentally acquainted through the instrumentality of a patient. This consists in inserting a small portion of cottou-wool moistened, into the meatus, and passing it with a probe to the site of the missing tympanum. He relates two very astonishing instances of the improvment in hearing thus accomplished. The remedy is a simple one, and its usefuhess or fallacy will doubtless soon be amply ascetained.-Provincial Mc. dical Journal.

## MIDWIFERY.

Rupture of the Unimpregnated utcrus.-M. Gozen, of Napirs, marrates tho following extraordinary ense:- $\Lambda$ woman, aged 34 , the subject of dysmenorrhoea, and sterile, cxamincd. The uterns was felt above the pubis, as large at the fifth month, but perfectly destitute of inequalities of its surface. The uterus continned to increase until its fundus reached the xiphoid catilagn; the menstrual discharge was irregular, and followed by cunsiderable lencorrhea. She was shortly seized with symptems of inestinal obstruction, from which stic was recovering, when she was suddenly ecized with collapse and abdominal pain, and died in less than twenty-four hours.
After death the peritoncal cavity was forme to be almost filled with pus, mingled with serous ilhid and fatid gas. The uterus adhered to the lateral parts of the abdoucn, from the pubis as high as the umbilicus,' filling the iliac regions; it was covered by the large omentum. The intestinal surface was irregular, and covered with fungous excrescences and tubcrcular massos of various sizes and forms, its cavity being filled with a white inodor. ous pus. The uterine walls were thickened, and contained several smail absecsses, some of which were close to its peritoneal surface.

The posterior aspect of the organ exhibited a rent, through which the mattcr had escaped into the abdonmen. An cncephaloid tumour was likewise found occupying the lower serment of the uterine surface.-Archives Gencrales, Murch, 1818.

Mrdicated Pess urics.-The fullowing are those chielly used by
br. Simpon:Dr. Simpson :-
Zinc Pessaries.--R. Zinci Oxidi, dr. j.; Cere Albr,dr. j.; Axungix, dr. vi. Misce et divive in pessiss quatuor.
Leadl Pessaries.-R. Mlumbi Acet. dr. es. ; Cerm Albe. dr. iss.; Axungie, dr. vi. Misce.
Mercurial Pessaries.-R. Unguent. Hydrarg. Fort. dr. ij.' ; Core Flave, dr. ij. : Axungie, oz. s. Misco.
Todide of Lacul Pessaricss-R. Plumbi Lodidi, scr. j ; Cele, Flave, scr. v. : Axangix, dr. vi. Misce.
Tannin Pessarics.-Rt Tannina, scr. ij.; Ccrac Alber, scr. v,' Axungie dr. vi. Misce.

Bellaidonna Pcssarics.-R. Extr. Belladon., scr. ij.; Cere Flaver, dri iss.; Axmpgie, oz. vi. Misce. -Monthly Journal, June, 1848.

Occlusion of the Vagina--Dr. Hayne, of Charleston, has reported, in the May number of the Charleston Mes. Jour. for 1848, a case of occlusion of the vagina, following sloughing of the os externum and vaginum, five days after delivery with twins. Previous to delivery the patient suffered from intractable edema of the labia majora.

Nine months after she was seen by Dr. H., who found her guffering from retention of the menses, caused by complete
occlusion commencing one inch within the vulva. The size of the abdomen was that of a womm advanced seven months in pregnancy, the fuadus nteri as high up as the umbilicus. The plan of treatment pursned, was that of the use of the compressed spenge of a conical slape, allowed to remain twenty-fom hours, and thea icmoved, and the ragina cleansed by warm injections. This phan was pursued for four weeks, when, owing to the inflammation of the pats produced, it was disconfinued for a week. The treatment was then lesumed and continued for threc weeks longer, when the seat of the stricture could be felt three aid a quarter inches from the vulva. At the end of this time, a severe flooding set in, which was arrested by means of the tampon. The next day the tampon was removed, and a large flow of dark uncoagulated blood followed. Four weeks alter she had completely recovered, and her natural menses appeared for the first time in eleven months.
A scond ease may be found reported in an " Introluctory on Atresia Vagine,; liy Prof. Hard, of Ind. Med. Coll., a sketch of which is given in the 2nd vol. of "The Annalist," p. 271. The occlusion, in this instance, resulted from instrumental delivery. An operation was performed by Prof. H., by which an opening was made "into the uterus, at about the anatomical division hetween the cervix and body." Abont ten ounces of menstrual fluid flowed. Dangerous inliammation followed, requiring active depletion. At the end of four months, the patient bad so far recovered, that she menstruated regularly through an artificial vagina large enough to admit the finger.

A third case of occlusion is reported in the Annalist for June 15th, 1848, in the Proccedings of the N. Y. Path. Soc. It occurred in the Hospital practice of Dr. J. O. Stone, of this city. The patient, cight mouths previous, had phagadenic ulceration of the vulva and vagina, which resulted in complete occlusion one inch and a half from the vulva. The fundus uteri was felt a little to the left of the umbilicus. A large globular tumor was detected by an examination per rectum, completely filling the pelvis. The operation of puncture through the cicatrix by means of a trochar, was resorted to. During the first twenty-four hours, thirty-five ounces of a dark tar-like substance was discharged. Symptoms of metro-peritonitis'set in on the second day, rapidly progressed, and the patient died on the fourth day after the operation. Autopsic examination revealed the presence of a cicatrix five lines in extent, the opening had been made directly through it into the sac. The sac was found to contain pus. Active inflammation of the cavity of the uterus and fallopian tubes, peritoneal covering of the pelvic viscera covered with effused fibrin of a caco-plastic character, that of the intestines and abdominal walls less intense.
This case is one of interest in the following point of view, viz., as showing most conclusively the direct transmission of inflammation from the inucous to the serous covering of the uterus. The order of palliological phenomena seciated to be, in this case, inflammation followed by suppuration of the sac, endo-metritis, inflammation of the fallopian tubes, inflammation transmitted by conlinuity over the pelvic and afterwards abdominal portion of the peritoncum.-New York Journal of Medicine.

Vaginal Hysterotomy.-Dr. W. K. Scott, in the Buffalo Medical Journal for June, 1818, has published the notes of a case in which he performed this nperation. "Abnut twenty-five years since, the patient was seen by Dr. S. in consultation wilh Dr.' F. B. Hicks. She had been in labour for more than a week, during which time no traces of the os tincer could be foumd. She was a heallhy woman and had borne children. The pains were regular from the first; when exhausted she woull sleep quietly for a short time."

Tre operation was performed by Dr. S. by means of a small sealpel, gnarded by the finger; a gush of blood followed the incision. The placenta was adheront to the cervix uteci. Dr. Hicks proceeded th tun and deliver the child, which was aceomplisbed in a shoit time. The patient iccovered rapidly and has since botne childien.
Two cases have previously been teported in American practice-for the first, see vol. $2,1.199$, of this Journal. The second will be found in the American Journal of Medical Science, vol. 15, p. 348. Both of these cases occurred in the practice of Prof. Bedford, of the New York University; in neilher, however, was the placenta attached over the os or cervix uteri. The operation was successful to both mothers and children.-New York Journal of Medicine and Collateral Sciences.

## MISCELLANEOUS.

## GENERAL AND MEDICAI, INTELAIGENCE.

Secretion of Milk in an Aged Woman, without I'regnancyThe Dublin Medical Press, August 30, contains an authenticated instance of the above, in the case of an old woman, aged 61, whose youngest and last child is 18 years old. The child of her danghter, who liad dicd, was taken home by the ofd woman, in whose bed it slept. She felt pain in her breasts for three days, and they finally liccame full of milk, and she has suckled the child for the last two months. The quality of the milk is not good, as the elild has emaciated.- Berzelius died at Stuctsholm on the 7th August, from paralysis. His intellect was elcar to the last.-The graduates of the University of London are making a move to of. tain such an amendment of its charter as will enable them to participate in its managenient, and become a part of the corporate body of the University.-The Committe of Management of King's College Hospital have purchased a large plot of ground whereon to crect a new Howital.-Sccret Poisoning.-This species of Thuggism is on the increase in England, and is cvidenty promoted by what are called the Burial Clubs-institutions, in which, for 1s. 3d. entrance fee, and 4d. per quarter afterwards, any party may secure $\mathbf{E l}$ on the death of another, or to his own family, in the cevent of his nwn. A woman of the name of May was lately tried and exceuted at Chelusford for the murder of her brother by arsenic ; she, without his knowledge, having entered his name at a club of this nature at Harwich. The cold-blooded vilhny of this wretch is almost incredible, there being the greatest probability that she had, some years previously, made away with her husband and sevcral of her children, under precisely similar circumstances. The London Medical Gnzette. Sept. 1, has a most able cditorial article on this subject.-In the Indiann and Illinois Mfedical Journul, a case of quadruplicates is reported by Dr. Welch-two boys and two girls. There were two donble placente.-There is every probability that the lecture terms will be gradually extended to six montha in the United Strics.-Pay of the United States Medical Staff.-The naval statio of the Ame. rican fleet for 1848 contains 68 surgeons, 40 passed assistant sur. goons, and 37 assistant surgeons. The pay of naval surgeons is as follows:-For first five ycars after commission, waiting orders, $\$ 1000$ per annum. In mavy yards and receiving vessuls $\$ 1250$. At sea service, $\$ 1333.35$. Surgeon of the flect, \$1500. For second five years, when waiting orders, $\$ 1200$. In navy yards and receiving vessels, $\$ 1500$. Sua service, $\$ 1600$. Surgeon of a flect, \$1800. For the third five ycars, waiting orders, \$1400. Navy yards, Sc., \$1750. Sea service, \$1866.66. Surgeon of the fleet, \$2100. For the ferurth five ycals, waiting orders, \$1600. In navy yards, \&c., $\$ 2000$. Sca service, $\$ 2133.33$. Surgeon of a flect, $\$ 2100$. For twenty y cars and upwards, waiting orders, $\$ 1800$. In navy yards, \&o., \$2350. Sueu scrvice, \$3.500, and if surgeon of a flect, \$2700. The pay of a jaseed assistant rur. geon, waiting orders is'\$850 per ammm. In navy jards and recciving vessels, $\$ 1150$, and atse; $\$ 1200$. The pay of assistant surgeons, the lowest grade in, when waiting orders, 8650 ; in navy yards and receiving vecsels, 3950 , and at sea servlec the Bamo.-(Anmqlist).-Extract of Belladonna issued foi Extract

Thraxicum.-This grio, vous mistake has been committed by the Shakens of AII. Lebanom, N. Y., and one fatal case has been the result. P'ots latelled Eat. Taraxicom werg found to contam Relladouna insteat of this amont in N. Y. We do not helicse this caution will be very urcessaty hele, as most of our extracts come from Lhoh had, hit it nut, nevertheless, be useful. Itie mistake sems to us unpardonahile--Comet.-The long-expected periodic comet of 1904 and 155f, has lion discovered in the comstellation Auriga, by Dr. Petersm, of Altona. It is described as smail, the brinht, and casily observed. By its positions on the T! and loth Ausnst, it would appear that it passed its perihelion on the last week in July, and is now descending to the southerin hemispherc.-Drogress of the Cholera to Augusl 23.-Lettejs from St. l'elershurgh state that it was disap;eaing from that city. The Cholera Hospitals; were closed by arder of the Emperor. Private letters from Paris amome that it had broken out in Deriin. The followine details, copicd from the Dublin Mcdicol P'ress, of Angnet 2:3, are of interest :- From the weekly sanatory reports of the city of Constaminople, it apmars that there is a de. cline of cholera case: in the capitit. On the 11 th, aug died, among whom were only fifty five females. Tho greater number of dealis have eccurred in Galata-namely, twenty, and in Pera, seven; (these are suburbs of the city beyond the harbour). Let. ters from Egypt, dated Alcxandria \$2d ultimo, announce that the cholera has manifested itself with considerable intensity at Cairo, and that tho epidemic had aleo reached Santah, a town on the Damictia branch of the Nile. The Examiner states, "that from a late number of the Military Gazctte of Russia, we find that since the apprarance of the epidemic, there were seized at St. Peters. burgh, from the 30th of June to the 21st of July, 19, 772 persons, of whom 4831 recovered, and 11,068 diced. In the whole of Rus: sin, since the first appearance of the cholcra, the 28 th of October, 1846, to the 5 :h of July, 1848, 290,315 persons were scized with the epidemie, and 116 ,65S died. On the 28 th of July, there were at St. Ietershurgh, 2396 cholera cases; in the rourse of the day, 137 fresh cases oecurred; 211 recovered, and 82 died. On the 29th, there were 2240 sick, 132 new cases; 188 recovered, and 68 died. On the $30 t h$, there remained 2116 cases under treat: ment. We larn, that at Berlin four cases of cholera have appeared. At Munich, the ministry is taking active preparatory measures in the event of the appearance of the cholera in Bavaria. At Konigsherg, wo cases have uccurred, in consequence of which a commitice of health was sitting in that city to take men. sures against the spread of the cpidemy. The Malta Board of Health have ordered all vessels coming from Egypt, Syria, Constantinople, Dardancles, and nther parts of the Ottoman Islands, to perform a quarantine of fifteen days." Six large cholera hos. pitals were opened in St. Petersburgh haring the prevalence of the cholera, and the nombers received were-

| On Iuly | 11th, | Fresh cases. 692 | Died. 399 | Recovered. " | Total under fratment. 16 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| " | 12h, | 606 | 386 | " | 4006 |
| " | 14th, | 525 | 312 | 218 | 3972 |
| " | 15th, | 432 | 274 | 268 | 3843 |

At Abo (Grand Duchy of Finland), on the 15th of Joly, 162 per. soms had been attacked with cholera: of these 225 died, and 139 recovered, or were convalescont. Since then the cholera has disappeared from Finland. Several cases of cholera had occurred at Orsawa, Pesth, on the 14th of July. The cholera, which had scusibly increased in Constantinople during some days previous to the 5th July, lessened in severity after the occurrenec of a violent storm. There were 196 deaths during the last seven days. The epidemic is declared to he prevalent in Asia Minor and the Dardanclles, The Kolner Zeitung has a letter from Posen of the 5 th inst, staling that a case of Asiatic cholcrat had occurred in that city. The patient, a woman, was at once conveyed to the Chio. lera Iospitil, where it is asserted she is doing woll, and likely to recover. Cholers hospitals have, hy order of the Government. been prepared in all the Prussian towns and large villages, and every care is taken to lessen the horrors of the appraching pestilence. The twentyone deaths from chulra in Liondon, for the week cnding July 22, are not from Asiatic cholera.-Dr. Mayer of Besangen has recontly compared the rate of mortality among persons who have taken the religions vow of celibacy, and lay in: dividuals in the different walks of eocicty. His results are similar to those obtained by Demareaux in 17746; proving that celibacy
is not injurious, but, on the contrary, favourable to a state of fongevity.-Mir. Ancelon has lately discovered a trenia in a fish: It was 11 inches in leugth, and differed from its analughe in the human epecies, in buving a head ending in a point, which the animal conld clongate or retract at will.-A new narcotic has been diseovered, the Deiamba, or Congo tobaceo, growing on the marshy banks of the Congo or Zaira. It womld not surprise us In see it rivalling the common nicotiana as an artich of luxury. It is now used by the Portugucse residents on the African coate ha such.-A few cases of vellow fever, with black vomit, oceured at Staten Island, N. Y. It crested a good deal of pathic among the New Yorkers. The disease axisted on the castermmot border of the island, and, although opposite thy quarantine station, there can be little doubt of its pres!y iucal erigin. The diseaso is dis. appearing.

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MONIREAL, OCTOBER $2,18.18$.

DR. CODERRE AND THE REPEAL ASSOCIATION.
Having in our last made all the observations on the professional parts of $\mathrm{D}_{\mathrm{r}}$. Coderre's letter which we decmed necessary, and having pointed out the very peculiar position in which one of his own friends has thrust himself by publicly denying a statement which he lad openly made, it now remains for us to deal with Dr. Coderre for his breach of the ordinary rules of conventional intercourse. If we can glean anything from a careful perusal of Dr. Coderre's lengthy communication, this fact would be most forcibly impressed on us, that he considers verboseness, vituperation, and personality, weapons of no ordinary kind of power; that "in war every advantage may be legitimately taken," wo matter what its nature ; that cumning and artifice may with every propriety supplant more noble and more honourable means; and that in literary warfare the sanctity even of private intercourse may be invaded and exposed, the end justifying the means. We quarrel not with Dr. Coderre for the selection of his weapons; their quality cannot but be appreciated by every right-thinking and honourable mind, and the very pecultar position of Dr . Coderre himself, thus indicated to a nicety. We confess to the entertaininent of the private opinion which has been attributed to us. That opinion, from legal advice taken months ago, we have found to have licen based on error; and on that legal advice we have since pursued our course, the unflinching advocate of the incorporated College, in which the best interests of the Profession of the Province are involved, and the mimompromising enemy of those restless demagogues, whose vanity forces them into a position for which neither mature nor their status in the profession ever designed them, and whose paltry subterfuges it is our delight to expose, and to treat
in the only serious way of which we are capable, and they are worthy-namely, by ridicule; for we have seen nothing in the lucubrations of any of the Associa. tion, worthy of any more elevated notice.
We thus express ourselses freely; and our opinion of men and matters in the present state of professional affairs, has been wrung from us by Dr. Coderre's violation of decorum. What if we expressed that opinion to Dr. Coderte. Has Dr. Coderre any right to publish it, or without our sanction? Ceriainly not. If Dr. Coderre has violated the etiquette of genilimanly intercourse, we at least will forbear the expression of the ideas rhich rise in our mind, hut which his conduct might well deserve. We will be merciful, lecause "merey is twice bessed."

Written Examinations.-We have received from one of the governors of the College, resitlent in Quebee, the copy of a proposal, the essence of which is, to conduct the examiantion of candidates for license hy a serics of written questions, instead of the customary viva-vocconcs-the candidate to answer in writing. This is the plan generally adopted now in Great Britain, and we think that none affords a more effectual test of the knowledge of the candidate. As we like both the principle and the plan, we would not have the slightest objection to sec it carried out.

Lea and Blanchard's .Medical Publications.-We understand that these enterprising publishers of medicoliterary works, have appointed Mr. John McCoy, Bookseller and Stationer, Great St. James' Street, their Agent, where may be had a number of their most valuable recent publications. We think this is right, and we think that publishers generally in Philadelphia and New York, will find it their interest to have agencies in this city, in which, during the winter months, a large number of students congregate, besides putting in the way of medical men an easy method of obtaining works they may de. sire. We would wish, for the sake of the profession, to see Messrs. Lea and Blanchard's proceeding imitated by other houses, for we are certain it would be mutually advantageous.

Act of Incorporation for Upper Canada.-We have been given to understand, that altempts are being made to obtain an Act of Incorporation for the profession in the sister province. We have no knowledge of the particulars of the Act, but we have been notified from several sources, that one is in progress. The profession in the sister province has our best wishes in
their favour, and that when obtained, no blighting influences from a misdirected ambition will mar its progress.

## BOUKS, \&C., RECEIVED.

Medıcal Lexicon, a Dictionary of Medical Science, Sc., By Robly Dunglison, M.D., Professnr of Institutes of Medicine, Iefferson Medical College; 7th edition. Philadelphia: Lca and Blanchard; 1848.
On Bandaging and other Operations of Minor Surgery. By F. W. Sargent, M.D. Philadelphia: Lea \& Blanchard; 1848.

Medical Chemistry, for the Usc of Students and the Profession, \&c. By D. P. Gardner, M.D., \&c. Philadelphia: Lea and Blanchard; 1848.
An Analytical Compendium of the varions branches of Medical Science, for the Use and Examination of Stadents. Dy Join Nuill, M.D., and F. G. Smith, M.D. Philudclphia : Lea and Blanchard; 1848.
A Dispensatory or Commentary on the Iharmacopeias of Great Britain and the United States. By, Robert Christison, M.D., with copious additions and illustrations. By R. Eglesfeld Coldsmith, M.D. Philadelphia : Ica \& Blanchard ; 1818.

The Principles and Practice of Modern Surgery. By Rubert Drewitt; a new American, from the last and improved Lond,n Edition. Edited by F. W. Sargent, M.D. Philadelplaia: Lea and Blanchard; 1848.

A System of Human Anatomy, Gencral and Special. By Erasmus Wilson, M.D.; 4ti American, from the last London Edition. By Paul B. Goddard, A.M., M.D. Philadelphia : Lea and Blanchard; 1843.

A Practical Treatise on the Diseases of Childran. By J. For. syth Mcigs, M.D. Philadelphia : Lindsay \& Blakiston; 1848.

Our usual exchanges have also come to hand.

## NOTICES TO CORRESPONDENTS.

Lellers have been received from Coptain Lefroy, Dr. Marsden, Dr. Sewell, Dr. Hunter, Dr. Stratton, Dr. Gibb, Messrs. Lea and Blanchard, Dr. Foster, Dr. Poinchaud. Dr. Hunter's re. guest has been complied with. We will be happy to receive Dr. Gihb's other paper with remarks on the general practice pursued in the I'arisian Mospitals in the cases reported.

We are obliged to Dr. Earle, Bloomingdale Asylum, N. Y., for his atication.

I'rofessor Croft'e letier just reccived.

## OBITUARY.

At Paris, C. W., on the 12th August, after a sbort illness, Dr. Alfred Busworth, cldest son of the late Lev. Newton Bnsworth.

At Guelph, Gith Sept., ared $\mathrm{DS}_{3}$ yea:s, Robert Alling, Esqu., M.D., during 16 ycans a resident of this town, and formerly of Laxficld, Suffolk, England.

At Bytown, on the DSth August, Doctor James Stewart, for. ancrly of the 81st Regimest, aged 60 years.

MONTHLY METEOROLOGICAL REGISTER A'T MONTREAL FOR AUGUS'T, 184.

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|  | 29.759 | 29.757 | 29.770 | 29.76 | 56.6 | 76.8 | 59.9 | 65.5 |  | ． 479 | 411 | ． 44 | ． 83 | ． 53 | ． 81 | ${ }^{.} 73$ | Calm． |  |  |  |  |
| 3, | 29.802 | 29．741 | 29.665 | 29.72 .2 | 60.4 | 73.7 | 67.0 | 68.8 |  |  | ． 537 | ． 524 |  | ． 66 | ． 83 | ． 76 | Calm． | S．E． |  |  |  |
| 4 | 29.548 | 29.357 | 29.348 | 29.405 | 65.4 | 72.6 | 65.9 | 65.5 |  | ．613 | ． 529 | ． 560 | ． 93 | ． 79 | ． 85 | ． 92 |  | E． |  |  |  |
| 5 | 29.460 | 29. | 29.664 | 29.593 | 66.6 | 71.8 | 59.0 | 63.8 |  |  | ． 409 | 433 | ． 72 | ． 62 | ． 83 | .75 | WbyN 1.0 | N． N. | Calm． | ． 975 |  |
| ${ }^{6}$ | 29.781 | $\begin{aligned} & 29.754 \\ & 99.790 \end{aligned}$ |  |  | 66 | 1.2 |  |  |  |  |  |  | ． 47 |  |  |  |  | S．S． |  |  |  |
| 8 | 29，83 | $\begin{aligned} & 29.790 \\ & 29.774 \end{aligned}$ | ${ }_{29.787}^{29.757}$ | 29.807 | 58.1 | 75.4 | 61.8 | 65.5 |  |  | 427 | 451 | ． 78 | ． 53 | ． 79 | ． 74 | Cal | S．S．W． | S．W． |  | Clear，exc a few ligm clds round hor． |
| 9 | 29 | $\begin{aligned} & 29.774 \\ & 9.695 \end{aligned}$ | $\xrightarrow{29.758}$ | 29.795 29.710 | 58.8 | 77.8 | 59.4 | ${ }_{710}^{66.2}$ |  |  | ． 314 | ． 401 | 8 | ． 52 | ． 69 | ． 63 | Calm． | S．E． | Calm |  | ad horizon． |
| 10, | 20 | 29．60 | 29.590 | 29.624 | 69.4 | 84.9 | 68．4 | 73.1 |  | 6： | ． 54.3 | ． 557 | ． 79 | ． 57 | ${ }^{.81}$ | ． 76 | Calm． | S．by | Calm． |  | Wruy clr，Afuw dense el |
| 11, | 29.614 | 29.594 | 29.664 | 29.637 | 70.3 | 84.0 | 68.0 | 72.1 | －579 | ．643 | ． 5886 | ． 595 | ． 80 | ． 57 | ． 81 | ． 73 | $\xrightarrow{\text { Calm．}}$ | S．by E． | Calm |  | Mrety clr．A few light pa |
| 12， | 29.725 | 29.699 | 20.740 | 29.721 | 69.2 | 81.2 | 68.4 | 72.9 |  | ．641 | ． 611 | ． 631 | ． 87 | ． 62 | ． 91 | ． 81 | Calm． |  |  |  | did，Distant thund |
| 13, | 29．792 | 29.736 |  |  | 76.8 | 80.0 |  |  |  |  |  |  | ． 72 | ． 63 |  |  |  | E. S.E. |  |  | ded．Hazy round |
| 16, | 29，65 | 29.567 | 29．743 | 29.60 | 71.4 | 77.8 | 71.8 66.6 | 71.9 |  |  | ． 5459 | ． 6388 | ． 8.1 | ．72 | ． 87 | ． 81 | N．by | E by N | E．S．E． |  |  |
| 17 | 29.60 | 29.595 | 29.615 | 29.609 | 63.2 | 66.0 | 63.4 | ${ }_{63.8}$ |  |  | ． 490 | ． 504 | ． 89 | ． 85 | ． 86 | ${ }^{.84}$ |  | Calm． |  |  | O＇retit cids all day．sidern $11,40 \mathrm{pm}$ |
| 18， | 29.6 | 29.590 | 29.635 | 29.617 | 62.8 | 72.2 | 62.0 |  |  |  | ． 392 | ． 415 | ． 55 | ． 76 | ． 72 | ． 67 |  |  |  |  | Sler rentill 9 am．Dens．ó |
| 19， | 29.659 | 29.6 | 29.642 | 29.649 | 62.0 | 73.2 | 56.2 | 63.9 |  | ． 435 | ． 409 | ． 365 | ． 67 | ． 51 | ． 92 | ． 67 | N．by |  | d |  | Li |
| 20, | 29.655 | 29.6 |  |  | 71.5 | 73.1 |  |  |  |  |  |  | ． 50 | ． 59 |  |  |  |  |  |  | rsave a few cl |
| 21, | 29，653 | 29 | 29．709 | 29.701 | 59.3 | 70.4 | 59.0 | 63.6 | ． 336 |  | ． 415 | 447 | ． 67 | ． 68 | ． 85 | ． 78 | N．by E． |  |  |  | ht clouds gen |
| 22 | 29．760 | 29.7 | 29 | 29.726 | 61 | 72.6 | 64.4 | 66.7 |  | 594 | ． 482 | ． 493 | ． 67 | ． 76 | ． 81 | ． 78 | NEby | ． |  |  | $\begin{aligned} & \text { in. Light } \\ & \text { Lis } \end{aligned}$ |
| 23, 24, | 29．704 | $\stackrel{20.6}{ }$ | 29 | 23.679 | 67.6 | ． | 67.0 | 69 |  |  | ． 558 | ． 535 | ． 80 | ． 53 | ． 87 | ． 77 | N．E． | E．by |  |  | Ligh |
|  | 29.751 | 29.71 | ${ }_{29.783}^{29.710}$ | 29.711 |  | 71.9 | 67.2 | 69， |  |  | ． 55 | ． 58 | ． 91 | ． 70 | ． 91 | ． 53 | Cal |  | Calm |  | Mrasty orc＇r．Light clo |
| 96， | 29.845 | 29.8 | 29.852 | 29.798 | 63.0 | 72.6 | 63．0 | 68.9 | ． 511 | ． 527 | ． 488 | ． 5371 | ． 91 | ． 68 | ． 87 | 78 |  |  |  |  | L＇s clds ithaze am，Mrto |
| 27， | 29．803 | 29.69 |  |  | 71.0 | 72.6 |  |  |  | ． 527 |  |  | ． 80 |  |  | 78 |  |  |  |  |  |
|  | 29.303 | 29.29 | 29.492 | 29.378 | 68.6 | 77.0 | 66.1 | 70.5 | ． 658 | ． 662 | ． 493 | ． 611 | ． 97 | ． 73 | ． 77 | ． 22 | S．byW 1.0 | $\begin{aligned} & \text { E. hy N. } \\ & \text { N.N.W. } \end{aligned}$ |  | 355 | Raininy occass am．Aur |
| 29, | 29.5 | 29 | 29.575 | 29.577 | 61.8 | 75.8 | 63.2 | 68.5 | ． 505 |  | ． 523 | ． 56 | ． 9 | ． 63 | ． 93 | ． 51 |  |  |  |  |  |
| 30, | 29.612 | 29．53 | 29.489 | 29.534 | 63.8 | 78.2 | 64.3 | 69.9 |  | 570 | ． 561 | ． 545 | ． 84 | .61 | ． 9 |  |  |  |  |  |  |
| 31, | 29.39 | 29.23 | 29.278 | 29.286 | 67.6 | 75.0 | 66.2 | 69.2 | ． 609 | ． 623 | ． 379 | ． 505 | ．92 | ． 73 | ． 60 |  |  | S. by W | W. |  | Mostly clear．Pass，Clioded till 3 pm ．Remainder clear． Clo |
| an | 29.658 | 29.625 | 29.646 |  | 64.7 | 75.9 | 64.2 |  | 507 | 554 | 498 | 5\％． | ． 84 | ． 51 | ． 84 | ． 77 | 0.1 | 0.3 | 0.1 |  |  |

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$$
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