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## MEDICAL AND PHYSICAL SCIENCE.

## Vor. I.]

## MONTREAL, AUGUST, 18456

[No. 4

## METEOROLOGICAL OBSERVATIONS.

To the Editors of the British American Journal.
Gentlemen,-In continuation of the meteorological observations transmitted to you for publication on previous occasions, I send you herewith a series of general results of the quantity of snow fallen during the six winters specified in the tables, compiled by myself from registers kept by Wm. Belin, Esq., M.D., Long Point, about four miles from town. I scnd you, also, a table indicative of the mean temperature at Fort Co. longe, on the Ottawa River, C. E.

I remain, yours very truly,

## J. S. McCond.

Table of the Quantity of Snow fallen, in inches, on the 1sland of Montreal, compiled from Registers kept by Willam Belin, Esq., M.D., at Long Point, ncar Montreal, by J. S. McCord.



Table of Mean Temperature at Fort Colonge, Ottawa River, Lower Canuda, Lat. 45 deg. 50 min .10 sec. N., Long. 76 deg. 55 min . W., calculated, and compiled from Tables kept by John Siveright, Esq., of the Hon. Hudson's Bay Company, and by him presented to the Natural Ilistory Society, Montreal; by J. S. McCord.


ON TIE ANALYSIS OF THE TUSCARORA SOUR SPRING', NEAR BRANDTFORD, C. W.
To the Editors of the British American Journal.
I have this morning received jour journal, (Vol. ii. No. 2,) in which you have been kind enough to publish my rough notes on the Tuscarora Spring, and in which you state, that M. De Rottermund has announced the presence of antimony in the same spring water.

This, if true, would be a most astonishing discovery, for I cannot remember that this metal has ever been noticed in any spring. Rose and Berzelius certainly do not mention it, nor do I think there is any notice of it in the treatises of Daubeny, Bischoff and Osann. I was so struck with the announcement, that I instantly made an experiment with some of the waters in my possession.

A current of sulphuretted hydrogen was passed through four ounces of the water for a quarter of an hour : a considerable milkiness was produced, arising from the decomposition of the sulphuretted hydrogen by the sesquioxide of iron, which I have shown to exist in the water; the opacity or milkiness is produced by precipitating sulphur. Not a trace of any orange coloured precipitate could be observed.

As a proof of the delicacy of the test by sulphuretted hydrogen, I took a quantity of tartar emetic, less than half a grain, (the oxide of antimony must therefore have been less than one-fourth of a grain), this was dissolved in four ounces of water, a little sulphnric acid added, and the solution treated with sulphuretted hydrogen. $A$ dense orange coloured precipitate was $i m$ mediately formed.

I have no hesitation in saying that there is no antimony in the water that $l$ have examined, and although I hear there are several springs differing considerably in their properties, I very much doubt whether that metal will be found in any one of them.

## Yours very truly,

Henry Croft.
King's College, Toronto, June 12, 1846.
[Professor Croft will excuse the non-appearance of his letter in the previous number. It arose in consequence of the original department of that number having been set up before its reception.]

## POISONED CONFECTIONERY.

## BY DR. VON IFFLAND.

Several years since, $I$ invited the attention of the educated portion of the Province, to the flagrant impositions so frequently practised upon the credulous, by the proprietors, agents, and vendors of Patent, but more generally and properly called, Quack Medicines: to many of which, were then, as now, ascribed curative properties to every disease and accident, incidental to
suffering humanity, but, which results shewed, were fraught in their administration; with the most serious and dangerous consequences.

These expositions, although submitted in the cause of reason and science, and strengthened; as well by the purest and most beneficent considerations, as by the justice and candour of those possessing public confideince; were deemed too bold and intrusive by the interested to escape the keenest reproaches, malevolence and personal abuse. It cannot, therefore, but be with some apprehension, that I approach a subject, whose importance most sensibly interests the whole human family, while it also involves the speculative gains of an industrious class of citizens, but who, too often, in pampering the luxurious palates and tables of customers, become the cause (sometimes innocent) of much serious evil, from the various metallic poisons in their preparations of confectionery.

Having had occasion to visit Montreal sometime since, my atiention was directed to the variegated and attractive colors of numerous specimens of confectionery, tastefully displayed not only in splendid shops, but also exhibited for sale by smaller retailers in the public markets; but sweets always seductive to the child and youthful branch of the community, are rendered more particularly so, from their beauty of color and fantastic shapes, and never fail to incite cravings, which the indulgent parent, not aware of their pernicious properties, too readily gratifies. From these considerations, the demand naturally keeps pace with the cupidity of the manufacturers, who, unscrupulous of the means employed, seldom feels anxiety or apprehension for consequences.

Conscious then of honestly obeying a strong impulse of public duty, I had written thus far; but, with a view of ascertaining, whether an application to a matter of so much importance, might not already have been brought to view by others, whose position and circumstances offered more favorable opportunities of investigation, I searched numerous works of authority and popular periodicals, and I am giatified to discover the publication of Dr. W. O'Shaughnessy, of such distisgushed talent, that I cannot better meet the intentions with which I set out, than by submitting extracts from that gentleman's article on Poisoned Confectionery, and although it appeared fourteen years since, may not probably be generally known to the junior members of the profession.

He has evidently taken a deep interest in the subject, devoted to it much time and labor, and pursued the inquiry with all the calmness and caution which its importance required, and I am fully convinced, that the facts he has established, atford irresistible evidence of the deleterious properties of several preparations of confectionery.

Mr. Chevallier, in a recent article in the Journal de Chimie, tome vi.p. 608, commences by observing that at several times he had related in the Journal de Chimie, various accidents produced by the consumption of sugar confectionery, colored by mineral poisons- of these he particularizes the schweinfurt green, a compound of arsenious acid (arsenic) and copper, the chromate of lcad, and the sulphuret of mercury.-Lastly; he enumerates Gamboge, a drastic purgative, and consequently an active irritant poison. Despite of the notification of this dangerous practice, made in nearly all the jouruals, literary, political, and medical, this mode of coloring was persevered in, till at length the Council of Health was consulted on the subject. This body lost no time in investigating it as it deserved, and the result was, an ordinance of police for the suppression of the nuisance. -The following document, which led to the ordinance, is well worth attention:-
Report addressed by Mr. Andral to the Prefect of Police, on the dangers which may result from the use of colored sugar confectionery.
" M. le Prefect, you have instructed the Council of Health to report to you, on the danger which may result from the consumption of colored confectionery, and on the measures necessary to be adopted to prevent the manufacture and sale of any such pernicious articles. The delegates of the Council have the honor to submit to you the following pro-positions:-
"1. It will be important to specify in the ordinance, what are the coloring substances which should be prohibited. These are, in the first place, all those derived from the mineral kingdom, except the oxides of iroin, ferrugineous lakes, or Prussian blus: all of which may be safely employed. Of vegetable substances gamboge should be severely proscribed, as being a drastic ca!hartic, which even in minute doses, necessarily occasions violent intestinal irritation. Litmus should be equally prohibited, as well on account of its being occasionally incorporated with putrified urine,-as that some manufacturers mix it with common arsenic and the peroxide of mercury.

## Observation.

"The most diversified colors may be obtained by the confectioners from totally harmless compounds. Thus from the lakes of cochineal and carmine, they can prepare all the reds; the lakes of logwood will afford them the vinlet; the lakes of dyer's broom (genista tinctoria) will give the yellow, the lakes of Persian grain (polygonum Persicaria), with Prussian blue, forms a more beautiful green than any mineral can produce ; finally, by the mixture of these harmless, colors all the intermediate tints and shades will be obtained.
"2. The papers used for wrapping up sugar confectionery should alsobe strictly attended to, since they are colored with the same poisonous materials, and children will invariably suck or eat these papers, from which it is evident the most fatal accidents may occur. A member of the Council of Health, a short time since, snatched a colored paper of this description from an infant's smouth, and by analysis obtained from it both Arsenic and Copper.
"3. The delegates of the Council are of opinion that to ensure the observance of the ordinanse, you should determine M. le Preféct, that a committee be appointed to visit the workshops of the manufactories of this species of confectionery: all the poisoned articles should be seized and
their vendors fined. Lastly the delegates of the Council recommend as a measure of great utility, that on the day following the seizure, the names of the confectioners should be published in all the journals and placarded over the walls of the city.
In conclusion, the delegates of the Council believe that an ordinance, founded on the principles thus pointed out, will prove of essential service, by suppressing a practice so pernicious to the public health."
The immediate result of this pointed and satisfactory report was the issuing of an ordinance from the prefecture of police, dated the 10th of December 1830, and signed by the Comte Treilhard, in which the practice is denounced in the most energetic terms, the piononous ingredients specified, the harmless enumerated, and in addition to the proposals of M. Andral, orders were given that no confectionery should be sold, unless wrapped up in paper, stamped with the name and address of the confectioner. Further by this edict, the vendors are held responsible for all accidents occasioned hy the confectionery or liqueurs sold in their establishments.
" Pursuant to these resolutions, the visits were made, and several poisoned specimens were destroyed. Generally speaking, the confectioners gladly banished from their laboratories the pernicious materials, and availed themselves of the harmless substitutes recommended is the report. Lastly, M. Chevallier describes the mode in which the sulphuret of mercury (vermillion), the chromate of lead, and the arsenite of copper (schweinfurt green, may be detected by chemical analysis.
"The preceding abstract, sanctioned by the name of Mr. Chevallier, and of that illustrious pathologist M. Andral, is amply sufficient to entitle me to the attention of the public, while I describe the extent to which the practice of using poisonous colors is carried in London, and thence disseminated over the United Kingdom, and its foreign colonies and possessions.
"On the subsequent day to that on which I perused the article just alluded to, I purchased, in company with my friend Dr. Green, at several shops, different specimens of colored confectionery, and of colorless articles, wrapped in stained paper. Of the colored articles, the greater number (class 1) were sold expressly for eating, some (class 2) cast into small figures of cards, \&c., were apparently rather intended for ornament, but were sold without restriction, and lastly, some (class 3) were expressly designed for ornament alone. Of the first class, 1 examined about thirty different kinds, and found the reds tinted as follows:-

Ten specimens of Red Comfits, §c.
1 Minium, or red oxide of lead.
2 Red sulphuret of mercury (vermillion).
1 Mixture of both the former.
2 Of a yellowish or orange tint, chromate of lead, and a vegetable lake of lime.
2 Cochineal, with a trace of vermillion.
2 Vegetable lakes of alumina and lime.

## 10

"It is here seen, that of the ten specimens of coinfits sold for eating expressly, six contained mineral poison ; all these specimens, with one exception, were only colored externally.
"Of the yellows, class 1, se ven specimens of different forms and tints. Four Gamboge, colored externally; one Colored throughout, a vegetable lake of lime; one Colored throughout, oxide of lead, and traces of antimony, or Naples yellow. Six of the seven consequently contained deleterious substances.
"Of the greens, class 1, several sprecimens, all were colored by Prussian blue and a vegetable yellow lake of alumina, mixed with the sulphate of lime, except one specimen of which I had only two comfits, and which gave me a mixture of copper and lime.
"The blues, class 1 , were chiefly Prussian blue, and
contained no hurtful compound.
In the second class, or those apparently intended for ornament, but sold without restriction, and formed in all sorts of fantastic shapes, of eight forms of ycllow, three contained chromate of lead, one of Naples yellow ; one massicof or yellow lead, and three vegetable lakes of alumina and lime. All these were colored throughout, and contained moreover sugar, and the sulphate of lime or Plaster ot Paris.
"The reds in this class were of six specimens, three vegetable lakes of alumina or lime, one chromate of lead, with a red vegetable lake, two red lead.
"The greens and blues were composed as I described in class 1.
"In the third class, the composition was precisely the same, and the proportion little different from class 2.
"The papers were next examined, especially those used for enveloping the sugar drops called "Kisses"-without exception the reds were colored by the red sulphuret of mercury, the yellows, by the chromate of lead, and many of the greens by verdigris, or the carbonate of copper.
"With respect to the quantities of the poisonous substances, I had not leisure to submit the various products to the tedious process of delicate weighing; moreover, it a ppears to be altogether unnecessary, as the mere presence of the minutest possible quantity of any such substance should not be allowed; I will merely remark that one concern in the city from which I have obtained the greatest number of poisonous specimens, employs eleven men daily in the preparation of these articles, furnishes immense quantities of them to country confectioners, supplies many of the minor shops in the metropolis, and, if I am rightly informed, exports to our forcign possessions to a considerable amount. Extent of manufacture always implies extent of sale, and in this case the ratio of the consumption of course equals hoth. I cannot, therefore, he accused of exaggeration, when I assert that millions of children are thus daily dosed with metallic and vegetable poisons, in minute quantities it is true, but in quantities dependent on their amount on the caprice of a workman or a machine, and sufficient in the minutest degree to exercise their peculiar insidious effects, if taken as a practice from day to day-neither are these effects chronic alone, for not long since an acule case of poisoning arising from the use of confectionery of this description occurred in the children of a highly respectable family in South wark, and, on analysis, the comfits were found to contain minium or the red oxide of lead."

It would appear almost incredible, that England, "whose legislation confers inestimable benefits on its subjects, and which sheds its radiance over the world, should, to this day, remain so far behind its continental neighbours, as to afford no protection against offences and abuses of the description now brought to public view. No subject can be of deeper or more vital importance, as that which is intimately connected with the general safety of the community; and none ought therefore more imperatively to call into action, the patriotic feelings of statesmen in every country-yet England and the United States are still the only nations in which a code of laws for the preservation of the public health, does not form a material part of the jurisprudence of the country-there are, it is true, in maritime towns, quarantine regulations to guard against the introduction of pestilential and conagious diseases from abroad-these laws include a few
provisos for the removal of any sources of infection that may exist, independently of those arising from shipping, but here they end. Both countries are alike destitute of a general medical police-and I fear much, that, notwithstanding the philanthropic exertions of Dr. O'Shaughnessy in bringing the subject of these articles before Her Majesty's government, both by submitting documents of the most irrefragable nature and authority -specimens of the poisoned substances and personal interviews with the Secretary for the Home Department, the evil has been left undisturbed, if not, without consideration, at least, as far as my information goes, without penal statute or municipal surveillance or restriction.

With regard to the right of England to export its manufactures to its colonies we can claim no interference save the exactions of certain imposts, but so far as those of a domestic character are concerned, the Provincial Legislature may exercise its control and authority, and by its enactments, render penal the manufacture and sale of such preparations of confectionery as are decidedly destructive and injurious to the healths of the inhabitants. It is therefore to be hoped, that during the next session of Parliament, the subject will engage the attention of government, and meet with that consideration from the Legislature, which its importance so justly demands.

## Yamaska (near Sorel,) <br> 15 h June, 1846.

To the Editors of the British American Journal.
Mr. Editor, - -Should you think the annexed case worthy of publicity, I shall feel obliged by your giving it insertion in your valuable Journal. It tends to illustrate with what scanty means an operation, generally considered difficult, can be performed in case of emer-gency.-I am, yours, \&c.

George Holmes, Surgeon.
Perth, C.W., April 21, 1846.
In 1840, I was visiting one of the back townships, about 30 miles from home, when I heard that a poor old man, residing a short distance from the house where I was stopping, was suffering from obstinate constipation, and was considered by his neighbours to be in a dying state. I volunteered my services, which were thankfully accepted. On my arrival at his house I found the patient, who was 63 years of age, in great suffering; the bowels had not been relieved for five days, and he was then vomiting stercoraceous matter, pulse 130, and occasional hiccup. On examination, I found a tumour, about the size of a small hen's egg, in the groin,* in the situation generally occupied in femoral hernia; rather tender

[^0]on pressure, but elastic, and increasing in size on the patient's coughing; the abdomen tense, and rather tender. He gave the following history of the case:-When about 30 years of age, he had a violent attack of hoop-ing-cough, and, after a severe paroxysm, felt a swelling rise suddenly in his groin. This soon disappeared, but returned again at intervals. He consulted a medical man in the United States, where he was residing at the time, who gave him a truss, which he wore for eight years constantly, when he left it off, as the tumour did not return, and, to all appearance, he was cured. Indeed, it did not again show itself until five days previous to my seeing him, after a lapse of 25 years.

I bled him, used the hot bath, and applied the taxis, but all in vain. The symptoms being so unfavourable, and the case appearing so manifestly urgent, that I determined to lose no time, but to operate. To my extreme mortification, I discovered that I had left my pocket-case at home. What was to be done? There was no medical aid within 20 miles, and to send to my own house in the bad slate of the roads would occupy too much time; indeed, the delay would have been fatal. I had in my pocket a sharp, long-bladed penknife, and with this I determined to hazard an opera-tion-having first made a director out of a piece of hard wood. I commenced by making an incision through the shin over the tumour, and then a transverse one at its base, forming an inverted $T$. Having dissected back the flaps, and divided the cellular and fascial covering, and exposed the hernial sac, I found, on opening it, a a large fold or knuckle of intestine of a dark brown colour, and of a very glazy appearance. The sac contained very little serum. The next step was to insert my director under the stricture which was very high up, and having guarded my penknife, by rolling some thread round it to make it resemble a hernia bistoury-passed it upon its wooden guide, and divided the stricture with very little difficulty, and returned the intestine. Very little blood was lost; the wound was closed and the patient put to bed. About an hour afterwards I administered an enema, which thoroughly emptied the bowels and having left the poor man an opiate, I consigned him to the care of an old midwife, hardly expecting a recovery. About a month afterwards I had the satisfaction to hear that he was quite convalescent; and i afterwards saw him-about two years after the operation-in very good health and quite free from any herniac swelling at all.
I may here remark, that one very singular feature in this case is, that it was a crural or femoral hernia occurring in the male. Of this there can be no doubt, as the tumour began at the edge of Pouparts ligament, and then proceeded downwards between the crural vessels and the os pubis, and the abdominal ring, and the parts above the
ligament, could be distinctly felt, perfectly uncovered by the hernia. This form is very rare in the male, although Lawrence, in his work on "Hernia," states his belief, that it is not so uncommon as many authors consider it. It is the first instance that has ever come under my observation, either in private or public practice, although Juring a period of nine years I was constantly in attendance in some of the largest hospitals both in England and Ireland, where operations for hernia were of frequen occurrence.

Third Annual Report of the Managers of the State Lunatic Asylum, made to the Legislature, January 23,1846 . Albany, N. Y.
Embodied in the report of the managers of the New York State Lunatic Asylum, at Utica, for the year 1845, we find the physician's report, by Dr. A. Brigham. The whole constitutes an interesting and useful document, and, as in previous pages of this journal we have. devoted some space to remarks on the operations which have taken place during the same period, in a few of the chief asylums of the United States, we purpose now to lay before our readers the chief features of interest in the present one.

The Asylum was opened for the reception of patients in 1843, but having been found ill suited, in point of accommodation, to the numerous applications, by an act passed in May, 1844, the Legislature appropriated a further sum of $\$ 60,000$, for the erection of two additional wings of brick, each 240 feet by 38 , and which will be completed during the present summer. The original grant, however, being still found inadequate to carry out the design, an alditional appropriation of $\$ 17,000$ is required ; and when finished, the building will afford ample accommodation for the reception of 600 patients.
From Dr. Brigham's report, we obtain the following general return of admissions and discharges:-

| Remaining in Asylum from preceding ycar, |  | Men. Women. |  |
| :---: | :---: | :---: | :---: |
|  | 260 | 131 | 129 . |
| Admitted during year 1845,. | 293 | 151 | 142 |
|  | 553 | 232 | 271 |
| Of this number discharged, Recovered, | 135 | 76 | 59 |
| , Improved,... | 78 | 39 | 39 |
| Unimproved, ... | 34 | 14 | 20 |
| Died,.......... | 21 | 10 | 11 |
|  | 268 | 139 | 129 |
| Remaining in Asylum Nov. $30,1845, \ldots .$. . | 285 | 143 | 142 |

During the three jears, since the opening of the institution, we find that 844 patients have been admitted, viz. -431 males, and 413 females; who thus rank in number, in accordance with their civil condition, married, 409 ; single, 392 ; widows, 31 ; widowers, 12;
thus presenting an anomaly in the reception of more married than single. Most asylums in the States reccive more single than they do of the former class.

A number of tables are comprised in the report, some of which are of little more than mere local importance. The third table, is one of interest, however, and serves to confirm the fact; that the age at which insanity begins to manifest itself, most chiefly, is between that of 20 and 30 , a point confirmed by the statistics of other countries. Thus, of 844 patients, in 173 it developed itself between the ages of 20 and 25 ; and in 140 , between 25 and 30 ; or in 313, in the third decennial period of life, forming a proportion of nearly one-third of the whole.

The report comprises a full detail of the general curative measures adopted in the Asylum. Among them Dr. B. "considers labour as among the most essential of the curative means," and, when practicable, agricultural employment is that kind which is generally selected, the labour of the patients being rendered serviccable in the support of the establishment. In the winter months, when out-door employment becomes injudicious or impossible, patients are employed in different mechanical occupations within doors, or in amusing themselves in some other manner. Schools are in successful operation, and appear to have been "especially beneficial to the demented or those approaching this condition. In such, the active state of the disease which originated the mental disturbance has passed, and left the brain and faculties of the mind in a torpid state. In these cases, medicine is of little use; but they may be improved, by arousing and calling into exercise, the dormant powers of the mind." There appears to be another class of patients, to whom mental exercise of this kind appears to have proved, also, pecularly serviceable, viz., "the uneasy and nervous, and the restless and irritable." We think that this variety of moral treatment has been too generally overlooked in the management of the insanc; and we cheerfully diffuse this general result, which appears to have flowed from this part of the treatment of such cases: "If we are not greatly deceived, our schools and other mental exercises have been very beneficial to our patients; contributing largely to their contentment and cheerfulness." "By these means, we have the satisfaction of seeing many patients, not only recover from their mental disorder, but that their minds have been improved, a fact of which they themselves are conscious, and for which they feel grateful. In repeated instances we have been informed by the relatives and neighbours of patients who have here recovered and gone home, of their increased intelligence and marked improvement of mind.".

Dr. Brigham concludes his report by offering some
general obscrvations: 1st, on the provention of insanity; 2nd, on the neglect of the study of insanity by physicians; 3rd, on the predisposing causes of insanity; 4th, on the immediate or cxciting causes ; 5th, on asylums for idiots; and we cannot betier conclude our remarks on this able report, than by quoting the author's words on the last head emmerated.

## asylum for iniots.

By the term Idiot, we mean to designate a person in whom the mental faculties have been wanting from bith, or have not been manifested at the usual period, owing to an original defect or to disease of the brain in very early life. The same persons are sometimes denominated imbeciles.

From each enumeration of the inhabitants of this State, we learn that the number of idiots is very great. By the census of

| 1825, there were | $\ldots \ldots \ldots$ | 1421 |  |
| :--- | :--- | :--- | :--- |
| 1835, | $«$ | $\ldots \ldots$ | 1684 |
| 1845, | $"$ | $\ldots$ | $\cdots$ |

We have already stated our opinion that some demented insane persons are classed with the idiots in the census; still we believe the actual number of the latter is very great.

What is their present condition? Where and how are they kept? We fear that full and correct answers to these questions would reveal a mass of wretchedness and misery wholly unexpected to the people of the State.
Some we know are in the county houses, while many are left to wander about, exposed to the inclemencies of the seasons, to want and suffering, and very frequently to the insults and gross abuse of the vicious. Not unfrequently some become mothers. Several affecting instances of this kind have come to our knowledge. One of the most abject and pitiable of this class, a white female, has had two children, one white and one black. Humanity. the preservation of public morals, and true cconomy, call for the better guardianship and protection of this unfortunate portion of the human race.
Can any thing be done for the improvement and welfare of this neglected portion of our fellow creatures? If so, we have no doubt the benevolent spirit of the age will soon require it to be done.
We are of opinion that very much may be done for their improvement and comfort ; that many, instead of being a burden and expense to the community, may be so improved as to engage in useful employments and to support themselves; and also to participate in the enjoyment of society.
Idiots exhibit different degrees of intelligence. While some possess no more knowlet!ge or capacity for acquiring it, than the brutes-others exhibit considerable intelligence or aptitude to acquire particular kinds of knowledge. They are capable of learning trades and to read, and of being taught music. Some are particularly interesting from the simplicity of their manners, quick observation and witty. remarks, as we know from the history of those times, when it was common to have such at the courts of kings.

But they all need protection and guidance, and as they now exist in this State, are a very necessitous and altogether too much neglected class of persons.
As we have said, we believe many of them may be much improved and be rendered far more'intelligent and comfortable, and capable of supporting themselves. This has been found to be the case in other countries where asylums and schools for idiots have been established.
Various have been the attempts of benevolent individuals for the improvement of idiots, but no thorough and systematic means have been adopted until within a few years.
So early however as 1828 , M. Ferrus, Inspector-General of
the Lunatic Asylum, of France, organized a school for
idiots in Paris, and in 1830, M. Voisin, Physician to the idiots in Paris, and in 1830, M. Voisin, Physician to the Bicectre Lunatic Hospital of Paris, and to whom the honor seems chiefly if not wholly due of directing. attention to the various capacities of idiots with a view of improving them, prablished a work on the subject. Since then successful attempts have been made to cultivate their intellects and improve them. In France, Switzerland and Prussia, asylums and schools have been established for their benefit, and from recent accounts we learn that more good has'resulted to these unfortunate beings than the most sanguine expected.
In Paris, at the school of M. Seguin, and at Abendberg in Switzerland, at Dr. Gugrenbuhl's Institution for Cretins, and at Berlin, under the care of M. Saegert, many have been raised from the lowest and most wretched state of animal existence to comparative happiness. Their habits have been improved, propensities regulated and their affections awakened. A considerable number have learned to read, write, draw, play on musical instruments and to labor. The change in some is described as almont miraculous by gentlemen from England and the United States, who have visited these institutions.

Abundant proof of the vast improvement that has been effected in the condition of idiots, is furnished by a recent report of a committee appointed by the Acade:ny of Scisnces at Paris, to examine the Memoir of MI. Seguin, on his method of instructing young idiots and imbeciles. This able report drawn up by M. Pariset, after'inentioning the wretched condition of the idiotic, and the great dificulties to be encountered in efforts to instruct them, declares that M. Seguin has, for the most part, overcome these difficulties, "opened a new career to benevolent exertion, and given to hygiene, medicine, and moral philosophy, an example worthy to be followed."

Confident in the success of an experiment to improve this class of persons and to render their condition far more comfortable, we cannot but hope that it will soon be made so under the direction of the State of New York. We scarcely know of a subject more worthy of the attention of the patriot, philanthropist and Christian.

Etements of Physiology including Physiological Anatomy, for the use of the Mcdical Student, by Wiliman B. Carpenter, M.D. - Philadelphia: Lea and Blanchard.
So rapid has been the progress of Physiology within the last few years, particularly in that department of the science to which the name of Physiological Anatomy has been given, that the student has hitheto not been able to obtain, in any one work, sufficient materials to lay even the foundation of his knowledge of this important branch of his profession; and yet the history of medicine does not present an era in which greater discoveries have been made in Physiology, or in which so much talent, industry, and energy have been called into operation for the elucidation of its mysteries.
In the work before us, this deficiency is supplied; it contains a clear and concise resumé of the present state of the science, without being too much condensed for the beginner.-With the works of Dr. Carpenter we have long been familiar, and for his talents we entertein the highest respect, yet we have often thought that in
his various treatises on Physiology, he would have been more successful as a teacher had he not been so brief in the manner of treating his subjects,-he would have taught better had he consilered his reader more ignorant. The truth of this, has been frequently forced upon us, in reading his descriptions of various parts of Physiology, with the details of which we were at the time familiar, and we have asked ourselves, "could we have obtained a clear notion of this subject, if ignorant of it until we met with this description?" In illustration of this we need only refer to the chapter on "Cytogenesis," to some passages on the Blood, Digestion and Respiration, in his treaise on Human Physiology, and we feel satisfied, that a mere heginner would obtain any thing but a definite idea of what the author wished to convey. We can casily imagine, that one like Dr. Carpenter, who has made a branch of knowledge his particular study for several years, and whose writings have been either directly or indirectly connected with that subject, should, when compiling a manual for students; err, from_too great anxiety to crowd into as small a space as possible a great mass of facts, forgetting that these fucts must be accompanied by detals to make them intelligible to minds to whose consideration they are for the first time presentex.

In the present work we are glad to perceive a complete absence of the faults alluded to; each subject is treated fully and satisfactorily-and we have no hesitation in stating, that it is admirably adapted for the use of the student, who is about to commence the study of, Physiology; and for the Practitioner who wishes to place himself au courant with the state of the science.

In the preface, the author informs us that henceforth he purposes devoting his talents and time to original investigation. We have no donbt his researches will tend much to the elucidation of the many questions still unsettled, a task for which he is well suited, not only on account of his freedom from prejudice, but from his possessing in so high a degree, strong reasoning powers and great candour.

Fevers, their Diagnosis, Pathology and Treatment, prepared and Edited, with large additions from the Essays on Fever in Tweedie's Library of Practical Medicine, by Meredith Clymer, M. D. Philadelphia: Lea \& Blanchard.
The above work is a collection of the various articles on fever published many years ago in England, and furnished by Drs. Christison, Shafter, Burrows, Gregory and Locock. The original essays are deservedly held in high estimation, and their value is now greatly en. hanced by the copious and judicions notes of the American Editor. We have noticed, that besides bringing
the information on each subject down to the rresent state of our knowledge, he has supplied many omissions in the text of the articles, and has, in this manner, presented before the profession, each subject in a more perfect state than could probably have been done by the respective authors themselves. He has also supplied an able original article on Typhoid Fever, which we strongly recommend to the perusal of those who have not'ret made up their minds as to the true nature of this disease. Dr. Clymer adopts the views of most modern patholo-gists-that it is separate and distinct from typhus. He has supplied much valuable information on the subject of treatment.

As there are many of our readers who do not possess the "Library of Medicine," we strongly recommend them to purchase the above work, for it contains the most recent and valuable information on this important class of diseases.

## ANATOMY AND PHYSIOLOGY.

## ANALYSIS OF THE BLOOD,

## ay m. dumas.

Fibrin is easily separated by whisking recently drawn blood, and the albumen is also readily separated by allowing the serum to coagulate. It is not so easy, however, to obtain the globules free from albumen and fibrin, ind a method indicated by Berzelius, and improved by Muller, suggested to MM. Lecana and Figuier a process for effecting this object. This method is founded on modifying the relations of the blood to the pores which exists in filtering paper. If blood, deprived of fibrin by whiskaig, and therefore liquid, is thrown on bibulous paper, the globules pass through the filter slowly, but almost completely. If, however, the blood before it is thrown on the filter is mixed with three or four times its volume of a saturated solution of sulphate of soda, it is so modified that all the globules remain on the filter, while the liquid in which they floated passes through, and thus the globules car be collected. But the application of this method is attended with some difficulties,
Thus, if blood has been defibrinated forsome hours, or attempt. ing to filter it after the addition of even an exaggerated quantity of sulphate of soda, it passes with difficulty, and the filtered liquid is always discoloured. It is therefore necessary to employ recently drawn blood; and after it has been defibrinated, and the albumen has coagulated, it is passed through a fine linen cloth into a solution of sulphate of soda, and is then thrown on the filter, a limped or alightly yellow fluid passes through, and all the globules remain on the filter. On washing the globules thus collected with a fur ther quantity of solation of sulphate of soda, it soon happens, however, that the liquid passes through coloured, dightly at first, but ultimately of such a deep red colour as clearly $t_{0}$ indicate a material alteration of the giobules collected on the filter, It is, however, necessary, in order to obtain the globules in a state of purity, to wash then several times with a solution of sulphate of soda, as otherwise they retain a certain quantity of the serum of the blood-that is to say, of an albuminous liquid, whose presence masks their real characters.
After many frutless attempts, M. Durnas has discorered a remarkable property of the globules of the blood whereby this difficulty may be ubviated. So long as the globules remain in contact with air or with aerated water, while they are arterialized in a word, the solution in which they float passes the filter colourless, and leaves them behind; but when the globules assume the violet colour of venous blood, the filtered liquid becomes coloured. It is consequently necessary to maintain the globules in the arterial state during the entire process of filtration and wasking; and this M. Dumas effects br immersing in the filter
a small tube through which a constant and rapid current of air is made to traverse the liquid; while a continuous stream of soltion of sulphate of soda replaces the liquid as it filters away. It is bowever, essential to the success of the process that it shall be quickly performed; if the globules are suffered to collcet in ever so thin a layer on the sides of the filter, those in contact with the paper are deprived of air and assume a violet colour, and the liquid then fiters througia coloured.
The globules, in fact, under those different circumstances behave, as it were, like living beings, capable of resisting the solvent action of the sulphate of soda so long ss they retain thicir vitality, but yielding to its action when asphyxiated by want of air. Chemists, then, should endearour to maintain their vitality-by agitating the liquid, kecping the liquid constantly aerated; and finally, by maintaining it at the temperature of the animal body. By means of these combined precautions, the globules may be obtained pure in a few hours, provided we do not attempt to prepare more than five or six grammes ( $Э$ v. to 3 ii.) at once.
The rapid alteration of the globulcs when deprived of the direct contact of atmospheric air; the extreme energy wherewith in a layer of globules those on the surface scize on tiac whole of the oxygen dissolved in the water, are circumstances highly calcu. lated to attract the attention of physiologists. In discussions and calculations respecting respiration, the blood has always been con. sidered as a homogencous tiquid plaved in contact with air in the lungs, aid undergoing changes more or less rapid. The serum of the blood is doubtless an homogencous liquid, but the globules are so many vesicles floating im the serum, and endowed with a proper respiration, whose effects, confounded with those that result from the respiration of the serum, produce by their com. bination the general phenomenon of respiration. Putting aside for a moment the proper action of the serum on the air, it may be said that the respiration of one of the higher animals, of man in particular, has especially for its object to furnish oxygen to the globules of the blond, and to expel the products into which it is converted.
In attemping, then, to calculate the effects of respiration, tho membranes forming the envelopes of the globules must be taken into account, for it is known how different pure and simple solution of gases is from the strange phenomena of endosmose through membranes separating two reservoirs full of different gases, or of two liquids charged with different gases. Respiration, then, to be well understood, should be studied in these vesicles-i.e., the globules of the thood, the seat of the prinsipal phenomena which it is intended to accomplish, and whose organization strangely complicates the law of physics. : The mode of action of the blood globules on air, whether circumambient or in solution, and the conditions under wiici that action proceeds, naturally becomes consequently a matier of great interest.
The microscope and agitation with oxygen afford two equally certain methods of recugnizing the integrity of the globules and the preservation of their fundamental property. When the globules arc entire, the microscope indicates the fact; while "hey retain the power of being arterialized, they redden on contact with oxygen. This property remains after the blood is taken from tho animal and when it has been deprived of fibrin, of albumen, and of serum, it is therefore independent of fibrin, albumen, and serum, and the vital influence of the animal. Sulphate of soda does not destroy this property, but many of the other alkaline salts do. Common phosplate of sode exists in the blood as sulphate of soda does, and, like it, its saturated solution when added to blood does not prevent it assuming an arterial colour when agitated with oxygen. Thus, so far as this property at least is concerned, the blood may contain, without inconvenience, much larger quantities of sulphate and phosphate of soda than naturally exist in it.
Salts of organic aeds, such as Rochelle salts, are in the same predicament, whence it is probably that lactate of soda may exist in considerable quantity in the blood without the property of the globules in question being interfered wilh. Experiments shows that the case is quite different with sea salt, and with chlonde of potassium. If recent whisked blood is saturated with sea-salt, and then agitated with oxygen, it remains violet coloured. Sal ammoniac has the same effect.
Is there any relation between those facts and the influence attributed to the abuse of salted meat in predisposing to scurvy? Is the action of sal ammoniac on the blood connected with the poisonous effects of all the ammoniacal salts?
It is to be observed that salts which preserve to the blood the
power of becoming arterialized, at the same time preserve the integrity of the glabules, and allow the serum to filler colourless. On the contrary, salis which destroy the property of becoming arterialized, allow the serum to pass the filter discolourcd. 'Hhose experiments render it probable that the colouring matter of the blood is especially fitted to assume the characteristic colour of arterial blood while it remains combined with the globules-a property which is lost or impaircd when by the destruction or alteraton of the globules the coiouring matter becomes really dissolved. A carcful comparison of specimens of bood treated with alkaline eults, capable of saturating it cold and agitated with oxygen, gives the following results : Salts containing complex organic acid, as the tartaric and citric, preserve the integraty of the globules better than salts of mincral acids. Salts of soda preserve the same property better than salls of potash and of ammonia.
An unexpected retation, then, seems to exists between the integrity of the globules, the arterial condition of the blood, the phonomena of respiration, and the nature sand propurtion of salts diselved in the blood. The perfornance of a few experiments of this kind will produce the conviction that asphyzia may be excited in the midst of the air or of oxygen without any other change than the introduction of a salt which modifies the blood globiles.
M. Dumas then indicated the importance of examining the properties of the blood globules in disease. It seems proinathe that their degree of tendency to alteration might be estimated by mixing blood, defibrinated or not, with graduated quantities of a sutable salt, such as sea-salt or sal ammon:ac.
In order to effect the clementary analysis of the globules of the blood, M. Dumas first isolated them by means of suphinte of soda. He then, having thoroughly separated the serim, dried them in vacuo with concenirated sulphuric acid. Boilng alcohol or ethor then render them insoluble in water, and by meians of the latter menstruum the suiphate of soda with which they are mixed wos then dissolved out. M. Dunas concludes from his analysis that the globulcs belong to the family of albuminoid compouads. They cuntain somewhat more carbou than casein or albumen do, which he attributes to the red globules containing a colouring matter more carbonized than they are themselves, -Gaz. Need. te Paris.

ROYAL MEDICAL AND CGIRURGICAL SOCIETY. May 12.-Dr. Babington in the chair.
On the relation between the constituents of the food and the systems of animals.

## By R. D. Thomson, M.D.

Lecturer on Practical Chemistry in the University of Glasgow. (Communicated by Sir B. C. Brodie, Bart.)
The first individual who showed that wholesome food should contain matters identical with animal substances, was Beccaria of Bologna who wrote an excellent paper on the subject in 1742. Dr. Prout has taught and extended this view for more than twenty years, and his opinions are now followed by all physiologists. That the systems of animals are capable of sustentation by a supply of fibrinous matier alone, is obvious from the history of the primitive inhabitants of the prairies of America; but it appears from experiments made on the nutrition of animals with pure fibrin, that an auxillary in the production of animal heat is either indispensable or ad vantageous, since animals fed on fibrin alone have invariably declined in health-(Magendie.) That the amount of calorifient, or heat-producing food, in contradistinction to nutritive food, properly so called, as it has been well defined by Liebig, is out of all proportion greater than that required to supply the waste of solid matter of the body is otvious from an experiment made by the author on a cow, in a state of rest, in which it was found that 15y lhs. of food were taken into the circulation in one day. of this, only 111ll. was nitrogenous or nutritive food, the rest being calorifient and saline. From this experiment, frequently repeated with near! y the same results, the author concludes, that in such a condition of the system, the natural relation of the nutritive to the calorifient constituents is nearly as 1 to $8 \frac{1}{3}$.

The author gives formule for calculating the amount of nutritive and calorifient food, with a view to determine the laws of dieting. He gives tables from his own analyses of the amount of nutiitive matter in about twenty different kinds of vegetables, (principally farinaceous food.) By these it is shown that oatmeal consists of 1 nutritive and 5 calorificn matter, and barley 1 and 7 -facts which explain the miversal employment of these substances. From these tables it is also inferred, that as milk is the natural food of the infant mammailia, the constitution of their food should be formed on the same type, and that the use of arrow-root or starchy food, where the relation of the nutritive to the calonibent matter is as 1 to 26 , instead of being, as in milk, 1 to 2 , is opposed to the principles attempted to be established by the author. He observes that, in nutritive tables, it is ustal to give a column of equivalents-repesenting, for example, 100 parts of beans as equal in nutritive power to 1160 of starch; but according to the author's riews, such a methot is not founded on scientific principles. In a correct plan of dieting a proper equilibrium must be maintained between the wants of animal organism and the constitution of the fool. The importance of this view is supported hy the results of an extensive series of experiments, made by the author, with different kinds of food, upon cows. These results are highly interesting, and were given in a tabular form, but our limits will not allow us to detail them at length. The author concludes by observing that, when more condensed forms of regetable are required, the ojject might be obtained by mixiug certain portions of American flour withi differenthinds of meal, which could not otherwise be raised by fementation -for example, by mixing equal parts of flour and oatneal, flour and pease, or barley meal, excellent bread coull be formed; and two-thirds of Indian corn, with one-third of hlomr, yielded an excellent loaf. Specimens of bread made wilh various mixtures of grain were exhibited.

Dr. Thomson, in answer to a question, stated that the quantity of water consumed by the animals in these experiments was truly enormous. The brown cow swallowed six galions at a time. His observations on this point weint to prove the correctness of these made by Sir 13. Brodie, who had found that these large quantities of water had been disposed ;of in the colon; the stomach could not hold them; thereby proving that absorption of saline matters weit on in the colon.

Dr. Snow said that he considered organic chemistry would have to be much further advanced than it is at presenit before it would be. safe to follow it, in giving directions on dict, instead of being guided entirely by experience. It was true, that farinaceous food did not suit young infants especially in large quantity ; so far, experience coincided with Dr. Thomson's theory; but if we were to argue from the chemical constitution of the food to be adopicd after weaning, it would have to be a sort of diet that we had never known given to children; they could not digest beans, and the only alternative would be, an exclusively animal diet. But the fact was, that the chemical constitution of milk was no criterion of what should be the food afterwards; there was the smallest possible difierence in the chemical constitution of the milk, which was the earliest food of all the mammiferous class; but no sooner was this left off, than they beteok themselves to the most different kinds of nutriment, some living on grass, and others exclusively on flesh. This was in accordance with the circumstane, that there was a sreat resemblate in organization in the early period of the development of animals, and that they took in their sjeciec characters as they grew up. Dr. Thomson bad spaken of the albumen and other nitrogenous constituents of food oo the nutritive part, and of the farina as the salorific potion:. Ife had indeed allnitted that the Ermer might asisist in the function of respiration, but he had not admite, ithat starelt might assist in nour:shing the fibrinous tissues. It happened, however, that many animals living exclusively on coarsa ve-
getable food, of which the nitrogenized elements formed bu a small part, were amongst the strongest and most active of the animal lingdom, and possessed a lower temperature than did in general, the carnivora, many of which were lazy and inactive in their habits. Taking all circumstances into consideration, the opinion of Dr. Prout must be the true onethat the saccharine elements of food, as he called them, combined with the nitrogenous principles of the bile, were thus capable of renewing the waste of the body, and that the vegetable feeders were not condemned to burn off the greater part of their food as fuel in the lungs.
Dr. Golding Bird, whilst he bore testimony to the industry and patient investigation which characterized the researches of Dr. Thomson, could not agree in the conclusions at which he had arrived with reference to the dietary of persons in health and disesse. It should be recollected, that previous to the labours of Liebig, the proportion of carbon which existed in various articles of food was thought to offer a fair indication of their nutritive power. That distinguished philosopher, however, had shown the fallacy of such a view, and had proved, that with the excerytion simply of the fatty tissues, every structure in the body was supported, and its waste supplied, by the nitrogenized elements of food. Dr. Thomson's paper had the merit of satisfactorily showing that animals could not be well nourished on either nitrogenized or carbonized food by itself, but that there should be a certain proportion between the two, so that the richly-nitrogenized food might make up the waste of tissue, whilst the richly-carbonized wonld become a source of animal heat. He (Dr. Bird) did not believe that the composition of the food of the infant animal, or milk, gave us any sure indication, in our selection of nutriment for the adult; for milk, nearly identical in composition, afforded nourishment to the infant cat, sheep, and porpoise ; whilst, in after life, how remarkably different was the food of these different animals. Admitting that the tables of Dr. Thomson were correct, it would seem that the most nutritious food for infants and invalids, next to nilk, would be beans and peas. This could not be followed out practically. White bread, according to the tables, was below the beans and peas in nutritious power; but, trusting to the same authority, a portion of cheese added to it would theoretically raise it high in the scale of nutriments : yet who would carry out this view practically? He admitted that infants might be literally starved from eating arrow-root, in consequence of their supply of nitrogen being cut off; he yet believed that in these inquiries sometimes more than mere chemical principles must be taken into the account in our determination of the diet we shall select for our patients. The ease with which different kinds of food were digested, and the vital endowments of the stomach, must not be overlooked.

Dr. Babington observed that the last speaker had gone much too far in his criticism, as every one must be aware that animal food and some other kinds of condensed nitrogenous matter might not be suited to children, from their difficulty of digestion. He considered the paper a very valuable one, and deserving of the thanks of the society.
Although one of the speakers stated that there was not much novelty in the views brought before the society by Dr. Thomson, we confess, that to us and to all with whom we have conversed on the subject, many of the facts and deductions are quite original. The table, which exhibited an increase in the butter of the milk of the cow, in proportion to the augmentation of nitrogen in the food, is perfectly new, and apparently at variance with the theories of Liebig, who derives the butter from the starchy constituents of the food ; but which Dr. Thomson reconciled, by considering the food in these cases to be so formed as to restore the proper equilibrium of the system of the animal. This view also leads to the novel suggestion, that by experiment we should determine the amount of matter removed from the system
under different circumstances of rest and exercise, and that a true plan of dieting should be founded on such knowledge, and should not be left to mere instinct. We believe, with Dr. Thomson, that on this consideration depend the true laws of dieting-a subject of so much the greater interest in an artificial state of society, where the food is too frequently concocted to minister to the palate instead of to the condition of the waste of the system. The relation which Dr. Thomson instituted between the food serving for nutrition and that for the mere production of animal heat was very striking, and we have certainly never seen the subject so treated before. The analysis of arrow-root, tapioca, and sago, employing them as food for children. The table, already alluded to, showed, contrary to the statement of une of the speakers, that arrow-root could not produce fat, and that such views are imaginary. The table containing the amount of albuininous matter in various kinds of vegetable food was highly important. The higherposition occupied by Scottish oats and barley-meal over English flour was sufficiently striking, and explains the cause of the great fact of entire nations subsisting mainly upon these kinds of grain. We firmly concur in the concluding observation in Dr. Thomson's paper, that his remarks tend towards an extensive field of experiment and deduction, of a highly practical nature, and may assist in indicating the direction in which the physician should pursue his inquiries when studying the laws by which the animal system is to be retained in a state of health.-Reporter of Lancet.

## SURGERY.

## RADICAL CURE OF TWO LARGE UMBILICAL HERNIE OF TWENTY YEARS STANDING.

By G. Heaton, M.D.

A lady, aged 54 years, had given birth to many children and become very corpulent, muscles loose and pendulous, in consequence of which she had suffered for 20 years from a large increasing omental and intestinal tumor, situated above, and to the left side of the navel. The omental portion of the protrusion had resisted every effort at reduction by taxis and other measures, from time to time made use of. In truth, it had been considered, by the patient and friends, an irreducible rupture for twelve or fourteen years; causing great suffering, at frequent intervals, from colic pains, constipation of the bowels, flatulence, swelling, sinking at the pit of the stomach, soreness, \&c. After ten days' perseverance with the usual treatment and manipulation, the whole hernial tumor was returned into the abdomen, leaving and opening through the abdominal parietes sufficient to admit three fingers. The subcutaneous operation for the radical cure was now performed, giving but little pain or uneasiness to the patient, and resulted in the most gratifying success. But four or five weeks were necessary to cure the patient of her troublesome and dangerous complaint, so rapid was her convalescence. She has since continued well; general health and spirits greatly improved.
A gentleman of about 55 years of age, very fat, weight over 300 pounds, has been troubled with an umbilical rupture for 20 years. The protrusion had assumed a double form, situated on either side of the navel ; that on the left side was much larger, more prominent, soft, and elastic to the feel, than the one situated on the right side. The patient, betore applying for treatment, had made use of a great variety of bandages, belts, trusses, \&c., hoping to retain the protruding: parts, but had utterly failed in all his attempts, and was now going about without any external support. The tumor of the left side of the navel had been constantly present, projecting freely, apparently without any hernial sac, and thought to be irreducible in part, for many years. Moderate and gentle pressure, even in the recumbent posture, made but Ilttle
impression for the first few days on the protrusion. It was not until one week of great perseverance in the usual preparatory treatment, that the hernia could be sufficiently reduced and retained within the belly, to admit of the operation for à radical cure, as in the above case. After subduing the constant.tendency to protrude, existing in the parts concerned, situated on the right side of the navel, or median line, I operated for a radical cure, and was somewhat surprised to find a considerable escape of fluid from the, slight puncture made in the integuments. Water is frequently found to exist in the hernial sac of an old scrotal hernia, but very seldom in an umbilical. As there were no indications of the presence of fuid on the left side of the navel, it is reasonable to believe that this must have existed for some time in a sacculated state. The operation and treatment which I find so uniformly successful in other forms of hernia, proved eminentiy so in this case, closing up the broken parts in a few days' time, and completing the cure in about three weeks. The patient, just before the commencement of his treatment, took a severe cold, which brought on an attack of spasmodic asthma, accompanied with cough, thereby preventing him from lying down in bed, day or night, for about two weeks. He felt no pain from the operation, and but slight pain at any time subsequently during the whole treatment and cure. He was also able to walk about his room from day to day, and go out back when necessary. What to me seemed not a little remarkable in the case, was that the protrusion on the left side of the navel, although seeming to be unwilling to yield by taxis and other means, and return into the abdominal cavity, showed no disposition to re-appear externally, after the first six or eight hours from the operation.-Boston Medical and Surgical Journal.

## TREATMENT OF ANEURISM BY GALVANISM.

The following case of treatment of popliteal ancurism by gal. vanism has been just published by M. Petrequin, head surgeon of the Hotel Dieu of Lyons, who had read a paper on the same sub. ject in October last before the Acaderny of Sciences: "A man, aged 70, presented himself for treatment of popiteal aneurism; and on the 22 nd January, M. Petrequin commenced his mode of treatment in the following manner. The patient was laid on his right side, and a tourniquet was put on the thigh high up. Four very fine stcel necdles, fifty-six millimetres long, were introdeced into the aneurismal tumour ncar to each other. Two of the needles were introduced on the inner side, taking care to avoid the trunk and branches of the saphena veins, and their direction was from above downwards; the two other needles were introduced on the outer side, also from above downwards in such a way as that the needles of opposite sides should cross each other within the tumour without. touching each other. This done, the tourniquet was tightencd on the femoral artery, mercly to the extent of stopping the pulsation in the tumour and artery without affecting its size or tension; a pile made on the instant composcd of twenty-one pairs of plates, nincty-three millimetres square, connected by bits of cloth steeped in a solution of comraon sall, was then applied by means of a couple of slender silver wires held in the naked fingers, and the electric current was soon in action; but as it was found very weak, the number of plates was increased, after three minutes, to thirty pairs, the action of which was continued for twenty-five minutes. A single needle only was touched with each pole of the battery at a time, but every kro or three minutes the contact was changed to another, so that each needle received the current in succession, and of course passed in every direction, with the view of causing fib. rous silaments in the tumour to interrupt the current of the blood through 'it, and so favour coagulation. Each new contact of the wires with the needles produced a smarting in the tumour, then contaction of the muscles of the calf, and a kind of shock in the sole of the foot. To remedy these unpleasant effects the needles were raised, and while the compression on the femoral artery conitinued to prevent pulsation in the tumour, the latter was enveloped with a bladder of ice ; the compressiun was then taken of the vessel, and the ice continued for six hours, at which time the pulsation in the tumour was as before the proceeding had
been commenced. At noon, on the 23 rd, twenty-four hours after the galvano-punciure, there was no longer any throbbing in the tumour; the patient got out of bed, and walked some steps, but continuing to feel a slight stiffness in the leg. The following days the tumour gradually diminished in size, and became more firm, the lateral depressions at the knee showed, the stiffness of the joint disappeared, the leg could be completely extended, the motion in walking became free, and there only remained a slight sensation of weight in the foot."
This case speaks much for the further trial of electricity for the curc of ancurism, more particularly when we reflect on the dangers of operation, and the apparent harmlessness of the battery. We consider it particularly useful in the infancy of the method, as pointing out to those who may hereafter try it, how very weak the current may be, to produce the desired effect.-Revue Medicale.

ON SYPHILITIC INFLAMMATION OF THE EYE. Ey A.' JACOB, M.D., F.R.c.S.I.,
Professor of Anatomy and Physiology in the Royal College of Surgeons, and one of the Surgeons of the City of Dublin Hospital.
That inflammation of the eyeball is one of the forms of disease in which syphilis displays itself, is now generally admitted, notwithstanding the doubts of Mr. Hunter on the subject. It is generally called syphilitic iritis, because the inflammatory changes are more conspicuous in the iris; but the remarkable redness of the sclerotic, the great imperfection of sight from the very commencement, and the subsequent opacities of the membrane of the aqueous humour and crystalline lens, prove that all parts of the organ are engaged, and that therefore the practitioner should have his attention directed perhaps more to the retina than to other parts. Whether it is to be looked upon as an accidental inflammation, modified by a peculiar and specific state of the constituticn produced by syphitis, or as one of the distinct forms in which the venereal disease displays itself, may perhaps admit of doubt; but that it is different from other forms of inflammation in its nature, symptoms, and consequences, can scarcely be questioned. The place it occupies in the order in which secondary symptoms appear has not been unequivacally determined, and it not very uncommonly occurs unaccompanied or preceded by any of them. Mr. Lawrence, in his work on Venereal Diseases of the Eye, says, that "although sometimes occurring alone, it is more commonly accompanied by other secondary symptoms, such as eruptions, ulceration of the throat and mouth, pains of the limbs, and swellings of the perinsteum. It is seen in conjunction with papular, scaly, tubercular, and pustular eruptions. As it belongs to the earlier class of secondary syphilitic affections, it sometimes shows itself like the other symptoms of that class before the primary disorder is cured." Mr Carmichael, in his Clinical Lectures on Veneral Diseases, published in this journal in 1840, says, that "though this formidable affection is not confined to the papular disease, yet for one instance we meet with in practice connected with the symptoms of the other forms, we at least find twenty connected with this." Mr. Mackenzie, in his work on Diseases of the Eye, observes, that "the local secondary symptoms with which he has most frequently found syphilitic iritis associated, have been pustular, papular, and scaly eruptions on the face and over the body, and next to these sore throat. The pustules on the face, which he has met with as attendants on syphilitic iritis, have frequently been large, hard, and seated so deeply in the skin as almost to deserve the name of tubercles. $:$ The scaly eruptions on the face have occasionally presented an approach to the areolar form of lepra. Over the body, again, where the eruption has generally been of a more acute character, the appearance has been that. of numerous circular elevated spots of a brownish-red colour, about the size of a split pea, ending in a desquamation of successive thin pellicles of
cuticle. Mr. Hewson, in his excellent treatise on "Ophthalmin accompanying the secondary forms of Lues Venerea," makes the following observations on this subject :-
" lt is only when lues vencera has advanced to its secondary staris, and more or less emtaninated the sustem, that the eye is stecertible of this sisease; an hall-cured, indoent charere or hobo mey be present win it, but some degree of constituional taint is necessary to its production.
"Some facts buve led me to believe, that where the constifu. timbal symptoms are most distinctly and strongly marked, and are at:ended wit' most general distarbance, in the same preportion will these attending the ophthatmia be viokent and severe; and, on the other hand, where the former are few and feebly developed, so will the latter be slow and instious in its progress, and mild in ins symptoms. I have ulso pretty generally remarked that, in tho cases in which no mercury has been used in the primary stawes, or previons to the occurrence of the opithalmia, this has appeared in its severest and most exasperated form; whereas, with those in whic., this remedy has to a certain catent been emplogcd, the contrary has been observed. Thus, among the cases noted as hating the ophthalmia in the former state, many have been nures who were infected by suckling poeky children: to these the disease is generally communicated in a manner unexpected, and its nature not being known, is allowed to proceed to its secondary stages without the intervention of its proper remedy. Women, aiso, who have been disordered by their husbands, have been placed under simlar circumstances, and similar results generully attend their cases. On the other hand, the patients with whom the ophthatraic symptoms have manifested most mikhess and indolence, who are by far the majority, have been thuse whose perious treatment has been conducted on what is called the altemative plan-by pills, and without confinement, I must, however, acknowledge, that the worst and most unfortunate cases hare been preceded by an irregular, inefficient, and protracted use of mercurg.
"lt would lead me out of my limits, and would be searcely pos. sible to examine and enter on a minute description of all the varictice and forms of constitutional symptoms, whish in different cases will be found to accompany the ophthalmia, for this would embrace a listory nearly of the whole vencreal disease ; it will, however, be necessary to take a short view of the most frequent and renarkable.
"Some species of eruption most commonly attends it, and this is usually either of the papular or scaly kind. We are not, however, 10 credit the statement of a recent speculative writer, who would have us believe that it is only joined with the papular. Though appearing most frequently in company with the cruptions i have mentioned, it is not necessanly connected with these or any of the eruptive symptoms, which in such endless variety in. dicate a constitutional taint. It may be associated with any general symptom; or, as it is distinct from, and independent of all, so it may exist alone. When the characters of any of the eruptions, of which I have now spoken, are sufficiently distinctive of their morbid origin, this concurrence will be decisive of the nature of the ophtiamia, if any previous doubt exists respecting it ; but when these ore faint and obscure, oher circunstances of the case should be locked into: we must examine into the present and previnus state of the patient's health, the time he had received any renercal infection, the treatment that had been employed, and the occurrence or not of any succeeding symptom.
"If, in conjunction with some suspicious appearance about the skin, we observe him pale and emaciated; that his health and strength have been for some time on the decline; that he is less equal to his usual bodily exertions; that he complains of pains a bout his limbs and joints, particularly at night, together with nocturnal perspirations; that at some recent period, generally withis the twelvemonth, he contracted venereal symptons, in the treatment of which there appears something faulty or objectionable; we have strong grounds for concluding the case to be syphilitic.
"If the skin is free from any symptom to which we can attach suspicion; we are next to examine into the state of the throat, which is very frequently affected at the same time with the cyc. We will here often find one or more ulcers, or a greater or less degree of excorialion, or irritation, either actually present with, or immediately preceding, the ophhalmia; and in some instances the transilion of the disouse frum the throat to the eyo has been remarbably rapid, a day or two only intaryening betweon its disup.
pearance from one and its scizing on the other. As the symptoms about the throat are often of an extremely dubious character, we can seldom solely rest our judgment on them; but must, as has been observed above, take our view of the case from an inquiry into the other circumstances attending it.
"Besides the symptoms now enumerated, there may likewise be discuvered, in diffurent parts of the body, morbid cicatrices, hintches, or ulcers; or the patient may have pains and swellings in his joints, on part of the peri steum or botes; and, in short, any symptom, even the latest or the most remote, may be con. jnined with the ophthalmia. Not a few cases, however, will offer, in which the ophthalmia is, for the most part solitary; for, libe many other symptoms of lues venerca, it may cxist alone, and be our only evidence of a diseased state of the system. In one temarkable case, in which the ophthalmia followed the healing of some warty tubereles about the scrotum and folds of the nates, by means of local applications; it was the first and only symptom indicating this effect. And amongst women, also, we shall often find that, in addition to the ophthalmia, the only circumstance loading to a suspicion of the constitution being fainted, is their having had reqeated abo:tions, or still.born children. Under these circumstances, a familiar acquaintance with the characteristic ap. pearances of the ophthalmia will be particularly useful, as by this means the attention will always be directed to such inquiries as will afford the clearest insight into the nature of the case."

In my own practice, I think I may safely say that I more frequently meet with the disease unaccompanied by any eruption or sore throat than otherwise. So much so, that I can only satisfy myself respecting its nature by inquiries as to the previous occurrence of primary sores, and the present existence of nocturnal pains and perspiration, periosteal tenderness, emaciation, and general ill-health. On the changes which take place in the eye, I rely very much for the purpose of diagnosis, as I shall have to explain presently. This discrepancy as to the place iritis occupies in the order of secondary symptoms admits of explanation. Patients labouring under eruptions or sore throat, if attacked by inflammation of the eye, will go to the practitioner most celebrated for the treatment of syphilis, because he naturally suspects they are owing to that discase; but if attacked by iritis alone, he will apply to the person he relies on for the treatment of discase of the eye. Hence the one sees most of his cases with cruptions or sore throat, and the other without them.

As it is desirable, if possible, to distinguish the syphilitic from other forms of infiammation of the eye, and as this often cannot be effected from the history of the case or constitutional symptoms, it becomes necessary to consider carefully, whether or not the changes which take place in the organ itself are peculiar, or different from those which occur in simple, uncomplicated, or idiopathic inflammation. In the first stage of the disease, when the changes in structure and appearance are owing to mere increase of vascularity, it is I believe impossible to pronounce an opinion as to the character of the discase from inspection of the eye; but in what I consider the second stage, the period of adhesion, effusion, and loss of transparency, I think a satisfactory diag. nosis may generally be made, especially when the inflammation has been permitted to go on for some time unchecked. The opacity of the membrane of the aqueous humour takes nlace more frequently, and is more remarkable; the efflusions of lymph or purulent matter into or upon the iris is more usual and characteristic; and the adhesions of the pupils to the lens are more rapid and extensive in formation. The opacity of the membrane of the aqueous humout is indeed almost exclusively found in syphilitic iritis. It occurs in that form of inflammation of the eye which is in a great degree contined to the chamber of the aqueous bumouf, and which is generally observed in delicate females of feeble frame or scrofulous constitution ; but seldom, if ever, in the simple idiopathic inflammation of vigorous and healthy men, It is to this opacity I alluded on a former occasion wher describing the changes which take place in the membrane of the açucous humour in consequence of simple inflammation!
and I again noticed it more in detail when enumerating the permanent effects of inflammation. Mr. Wardrop notices it when treating of inflammation of the membrane of the aqueous humour; he says "it is indicated by one or more spots which distinctly denote an opacity of its substance. These do not resemble any of the common form of speck, but have a mottied appearance ; and Mr. Hewson describes it in the inflammatory stage, considering it to be a clouded or opaque condition of the aqueous humour itself. He observes, " this humour is always more or less clouded by an opaque fluid which is generally seen floating in the anterior chamber. This prevents a clear view of the iris and pupil, and causes an appearance as if there was an opacity of the cornea." In this I am convinced that he was mistaken, because I believe that the aqueous humour is very seldom, if ever, rendered opaque by effiusion of purulent or other matter into it; but on the contrary, when purulent matter is secreted, it does not become diffused or mixed with the natural fluid, but falls down; presenting the peculiar appearance called hypopium. That it appears very like a muddy or clonded state of the aqueous humour 1 admit, and this is rendered still more deceptive by the circumstance that the opacity seldom occupies the whole of the membrane of the aqueous humour lining the back of the cornea, but is confined to its lower half or two-thirds, leaving the upper part transparent, as if the opaque material had subsided towards the bottom. It is, however, to be observed, that the mottled or speckled appearance is not seen during the inflammatory stage; it is one of the effects or consequences which remain long after the inflammation has subsided. The opacity is at first a diffused, uniform, muddy, or clouded patch resembling, as has been seen effusion into the aqueons humour.
Syphilitic inflammation of the eye, although unaccompanied by any cutaneous eruption, sore throat, or other secondary symptom, may generally be recognized from the greater amount of disease affecting the iris. That the yellow depositions of coagulable lymph or purulent matter already described, may sometimes occur in other forms of inllammation cannot be denied, but that they occur far more frequently in the syphilitic form is equally certain. Whether we call them globules of lymph or abscesses, they are found in their most perfect and characteristic shape and appearance in this species of inflammation; so much so, that when present I hesitate not to predict at first sight that on inquiry ${ }^{\text {the }}$ existence of syphilitic disease will be established. These depositions have already been described when treating of the consequences of inflammation in its simple or uncomplicated form; it only remains to add, that the dull-red or light-brown irregular ring surrounding the puipil is perhaps found almost exclusively in the syphilitic species. The greenish-yellow stain, on the other hand, is as often, if not oftener, observed in idiopathic inflammation, or after injury.
These depositions, tubercles, or globules, are described by Mr. Hewson as follows :-
"Likewise, we will have in many cases to attend to a very singular, and, I might add, characteristic symptom to which I have alrcady alluded-namely, the formation of one or more small tabercles on some part of the iris. When these occur, there is ulways more pain and tenderncss felt in the eyeball than usual; they commonly present themselves at or near the pupil, and on that part of it where the morbid process is most active. Now and then they are seen on the surface of the iris, between the pupil and its ciliary attachment: they are found from the size of a large pin's' head to that of a small split pea; sometimes there appears but a solitary onc, at others we sce two or more of them unconncted ; but in some cases a number are clustered together, and project into the pupillary space, so as nearly to fill it up, or protrude forward into the anterior chamber; at one time they hang pendulous, at an other they are attached by a broad base; when small, they are of a dark red colour; but when large and prominent, they are more or lees white at the apes, while about
tho base the redness continues. By closely examining them in this later state, we shall distinctly observe that the inflamed superficial'membrane of the iris is reflected over them, and forms their anterior covering; and thus, when these tubercles are small, their covering retains the redness caused by its state of inflammation; but when they are larger and more peinted, it becomes transparent about the apex, where, as happens in a common postule, their whitish contents are visible.
"While in this state, in some rare cases, the tubercle bursts, and its purulent contents are poured into the anterior chamber. thus giving rise to the symptom called hypopium, so common in idiopathic internal ophithalmia. The different circurnetances, however, I may here shortly remark, under which this symptom occurs in these respective species of ophthalmia, ars, with a little attention, sufficiently manifest; for, in the veneral case, we clearly observe that the matter is deposited into the anterior chamber from the pustular tubercle, which is previously formed and always preenent; whereas, in the latter instance, we cannot distinguish from what direct source it is produced.
"After the disappearance of these tubercles, we may often dis. cover a fissure of cicatrix in that patt of the iris where they have been situated. Witl regard to their nature, from what I have observed of them, $I$ would conclude that they are either pus. tular or for the most part furmed of a parulent deposition. Having never found them attendant on any other kird of inflammation or morbid action, I have always looked on them as characteristic of venereal ophthalmia."-Dublin Medical Press.

## PRACTICE OF PHYSIC AND PATHOLOGY.

## CASE OF HYDROCEPHALUS IN A CHILD.

## By James Edward, M.D., L.R.C.S.E.

As medical attendant on the family of William Boath, residing in this place, I was called upon, in the summer of 1839, to attend one of his children, eight months of age, which, upon examination, I found to be laboring under chronic hydrccephalus-a disease which had carried off two of Boath's children at a former period.

I found the child fretful and peevish, leaning his head alternately on his mother's arm and breast, with a small, irregular pulse. He was restless and disturbed in his sleep. In the course of my attendance on him, he was alternately affected with diarrhea and constipation of the bowels, the tongue being sometimes clean and at others foul; the face had generally a bectic appearance; the skin was occasionally hot and dry.
I scarified the gums, applied a leech to each temple, and had bim occasionally bathed to the middle in warm water. The bowels were rectified as occasion required by aperients or astringents. Cold applications were occasionally applied to the head when it felt very warm, but were discontinued when the temperature was reduced. Blisters were applied to the nape of the neck successively for a considerable time, and latterly these were re-placed by a liniment of croton oil rubbed over the head and neck, which produced an eruption on the latter, but only an erysipelatous blush over the former.
Notwithstanding the continuance of this treatment during a period of six months, the disease gradually gained ground. Convulsions and squinting made their appearance, and I considered that tapping for the evacuation of the effused fluid afforded the only chance of recovery. I determined, therefore, that the operation should be performed, and in the presence of David Murray, M.D., and other assistants, proceeded as follows :-
The child was placed across the knee of Dr. Murray, with his head towards myself, and I applied loosely a starched bandage, the ends of which were given to an assistant, that he might tighten it as the fluid was being evacuated. I then introduced a common hydrocele trocar and canula a little to the right of the lateral angle of the anterior fontanelle, to the depth of about an inch in the direction
of the right lateral ventricle. Having withdrawn the trocar, a reddish fluid was allowed to flow to the amount of $\overline{5}$ vij, when I withdrew the canula, applied a compress on the wound, and tightened the bandage for the thorough supprart of the cranial bones. A sliglit oozing of blood took place from the nostril, and continued for twenty-four hours: whether from an accidental wound of any small vessel within the cranium, in the course of the operation, I am unable to say.

Nourishing diet was ordered; aperient medicine when necessary; and the body to be kept comfortably warm. All the former symptoms gradually disappeared, the child recovered his health, and now, after a lapse of seven years, is a fair scholar, and has every faculíy good. He appears, however, to be increasing in height more slowly than is usual at his age.-Edin. Monthly Journal of Med. Sci.

## CURABILITY OF HEPATIC ABSCESSES.

## By M. Faucomenu-Dufresne.

(Rend at the Society of Medicine ef Paris, May, 1846.)
The subject of this memoir is interesting, but we can only give the substance of the papcr itself. Pus is formed in the liver, either from inflammation beginning in the organ itself, or from metastasis; that from the first cause only is considered here. Suppuration presents itself in this organ under different aspects; infilration of pus through the whole extent of its structure is very rare, but an example of it was sent mue this year by M. Chomel; one or more circumscribed abseesses are much more common. If the absecss be recent and quickly formed, it is thin, like whey, and contains flocculi; in other cases 14 is thicker, unctuous, oi a yellowish, grecnish, or whitish culour. If one of hic biliary ducts opens into the cavity of the abseess, the colour of the bile is casily récognized, and the matter is particularly viscid; traccs of blood may be sometimes discovered in it, giving it the appearance of lees of wine, or clocolate, but this is purcly an accidental circumstance, and is not a necessary character of hepatic abscess. The quantity of matter found varies from a single drop to twelve or fitten pints. There may be but a single abscess, but more generally three or four, and occasionally as many as thirty or forty have been discovercd. Usually in size tlicy would contain a small orange i.s their carity ; screral absecsses in the neighbourhood of each other generally communicate; they are offen traversed by vessels, not so of:chi impervious as is supposed, for they frequently give way, beive obliteration; at first the cavity is lined by a soft membrane, which in time will be. come a firm thick cyst, intimately connected with the parenchyma of the liver; sometimes no cyst or circumscription can be discerned. When matter forms dcep. in the substance of the organ, and in large quantity, little can be huped from the power of mature to effect a cure, the patient gradually sinks under hectic; but if the collection is small he may recover, by its slow abzorption, and that of the cyst, which leares behind: a hard fibrous knot, sometimes cretaccous; containing plosphate and carbonate of lime; in numerous investigations which I pursucd at La Charite, it nust beadmitted, that I conld not trace the origin of those latter to an obliterated cyst of an abscess; but my friend Dr. Charcellay, Professor of Clinical Medicine at 'Tours, has satisfied himself that these deposits have been the remains of ab. ecesses. When matier forms near the surfate of the liver it may escape externally :without getting into the peritoncal cavity; but this is not always a fortunate circumstance. Not withstanding the adhesions which generally form round these abscesses which tend to come forward externally, many examples have been ob. served where the matter did get intu the pertoncal cavity, and offen caused a fatal perilonitis, particularly where it formed at the concave surface of the liver, as was the case with Vietor Jacquemont; the traveller. Abscess of the liver has made its way into the substance of the spleen. It has got into the thorax, and a cure was effected in two cases given by Taillard and Morand by operating as for cimpyema. There are two cases on record where the matter got.from the liver into the puricardium, which were of course fatal. The most favourable cascs are where the matter escapes directly or indirectly through the walls of the abdomen; sometimes they point at the umbilicus, or between the ribs, or as Portel saw in a subject brought in for dis-
scction, between the lumbar muscles, where the matter insinua. ted itsell along the ribs, even up to the axilla. Schenkins is said to have seen one of those abscesses pointing low in the thigh; it may make its way between the pleura and ribs without perforating the membrane and getting under the superficial muscles of the chest; they sometimes make their escape by the iniliary, urinary, or digestive canals, or may get through the sub. slance of the diaphragm, pleura, and lungs into the bronchi, and be thus discharged. After reciting a number of eases, M. F. concludes that abscesses of the liver, cven of considerable size, are carable by the vis medicatrix nuture, and that there are suf. ficient proofs to warrant hopes from the assistance of art in several cascs from opening these abscesses.-Dublin Medical Press.

## CASE OF EXCESSIVE HYPERASTHESIA.

## By Henry Haines Fux, of Columbia, Penn., in a Letter to Professur Dunglison.

Dear Sir,-The case of gencral paralysis followed by hyperacusis, in a boy aged 11 years and 9 months, at the time he was first attacked, and concerning which I consulted you last winter, has evidently improved in many respects under the treatment recommended by you; which was, as you will recollect, to avoid as much as possible everyithing that would tend to irritate, or aggravate him in any respect, mentally or corporally, and to trust to the recuperative powers of the system.
As the case is a singular one, and may interest you, I will give you a brief history of it from the commencement. The first thing that attracted the attention of his parents was a hard rough cough, which occurred in January, 1844. He had, however, complained occasionally of wandering pains in his shoulders, with slight weakness of his limbs upon rising from bed in the inorning, for some months previous to that time, but these soon passed away. The cough became gradually worse, accompanied with pains and soreness in his teeth, month and throat; until the latter part of February, the coughing was almost incessant; especially in the day time, alihough not attended with any expectoration. At this time a physician was called in, who pronounced the disease to be inflammation of the lungs, and treated it accordingly; he did not, however, order the patient to lose blood. After the application of the sccond blister to his breast, the cough left him entirely, and the physician ceased to visit him. It was not long, however, before he began to complain again of his jaws and throat; so that it was, with difficulty that they could prevail on him to take nourishment, from the pain and diffculty attending deglutition. From this time he began to lose strength, and became very costuve, having no evacuation for several lays; but by repeated injections they succeeded in procuring one. After the first enema he wholly lost the use of his limbs, and has not been able to help himself in the least up to the present period. After the second enema he lost all control over his. eyelids, for several days, but it has since partiaily returned to him. If requested to move them when open, thy almost inyariably closed in an instant: this condition contirued for a period of several months, but he gradually recovered, so that now they are under the influcnce of the will as well as before his illness. About the first of April, 1844, he began to complain of his head, whenever he was moved, and in a short time his parents were unable to move him or change his position in bed. Owing to his weakened and prostrated condition, they have been unable to ascertain, whether there is tenderness along the spine, as the least movement or change of position is attended with the most alarming symptoms; the last time his bedclethes were changed he remained senseless-perfectly unconscious of everything-for a period of two hours. It was in Aprii that he began to complain of noise affecting him ; and the hyperresthesia of the organ of hearing soon became so great, that the barking of a dog outside the house would throw him into an insensible slate for minutes. Although his ears were well filled with cotton, to prevent as much as possible the im-
mediate contact of noise with the super-sensitive brgan, such was his impressible condition that his father was compelled to relinquish farming for several months, being unable to thrash his grain, or drive his team pasi the house.
In the latter part of summer, he experienced sitithes in the posterior part of his head, which were followed by pain in the back, shooting ip to the head; but these finally left him, so that at the present time he does not complain of any. His reason seems to have become impaired with the increase of the malady, esprecially on some points, though not on alloften conversing for hours without showing any impairment of the mental faculties whatever. His memory has remained perfect throughout the illness ; he recollects apparently everything that has occurred, but his temper is greatly changed; he often breaks out into violent rage, and, at the same time, makes use of language which he never did before his sickness. His shyness, or dread of strangers, commenced abont the time he lost the use of his linbs. He cannot be prevailed upon by any of the family to permit many of his near relatives to see hina, but above all he objects to physicians; for whom he has the greatest dread imaginable. For more than a year anorexia was great, so that it wns often dificult to prevail on him to take the least quantity of nourishment; consequently he hecame greatly emaciated ; of hate, however, his appetite has improved greatly-he has become more fleshy, and has cridently grown within the last nine months. He has had no medical treatment since his first attack: upon this point his father-in a letter dated February 19th, 1845 - speaks thus: "I sincerely believe it was impossile to have resorted to any active means since last May, owing to his great prostration and utter ohhorrence of all physicians. I have been expecting every day would be his last for some months."
Since last April the super-sensitiven ss of the auditory nerve has been gradually diminishing, until it has become nearly natural; and he now seldom complains of noise disturbing him, unless it is very loud. His appetite has returned, so that he tales a grod share of nutritions aliment; consequently his nutrition has greatly improved, and he has evidently grown in stature within the last hine months. Althongh still unable to exert any control over his limbs or lody when awake, it has been observed, of late, that he does change their position in his slecp. These are among the more marked changes which have occurred since last winter.-Medical Examiner.

## MATERA MEDICA AUD PHARMACY.

## ON THE EFFECTS OF EXTRACT OF CONIEM maCULATUAI.

By Hosea Fountain, M.D., of Somers, Westchester co., New York.
I was much interested in reading an article in the number of the American Journal of the Mledical Sciences for July last, from the pen of Dr Earte of New York, on the effiects of the extract of conium maculatum. As I have heen in the habit of prescribing this remedy occasionally, and always observing marked effects from its use, I was much surprised at the slight results obtained from the large quantities mentioned by your correspondent. - His communication describes the symptoms arising from the internal use of the dury as Tusually found, I suppose, in the shops, which were so slight and transitory, that we may safoly conclude that the mediThine is either inert, and should, therefore; be discarded from The materia medica, or that the extract experimented with fras improperly prepared, or had lost its virtue by age or some other cause.
That conium is an active agent, few who have witnessed Whe effects of a well-prepared fresh extract will be disposed
to doubt ; and that it is useful in disease must be admitted, when such troublesome complaints as chronic affections of the liver, habitual costiveness, jaundice, sce, are relieved, and often cured by this remedy alonc.

To show that conium does act with some energy on the system in less quantities than taken by Dr. Ealfe, I will describe the effects of a single dose on myself. The extract was prepared from the fruit, or seeds of the plant, with no other care than that the infusion was not at any time allowed to reach the boiling point. When of a syrupy consistence, the evaporation was finished in shallow pans, in the operi air.

Fearing, from its dark color, it had been injured in its preparation, I swallowed about twelve grains, to test its activity, and quietly awaited its effects. Half an hour passed away without any alteration in my feclings, when supposing the medicine worthless, I threw part of it, from which I was preparing some pills, in the street, and started on my daily ride. In a few minutes, however, I observed a dimness of vision, with bright joints scintillating, or rather quickly moring in the distance." This caused me to turn from side to side to notice them: and from this cause, I suppose, I found myself reeling in the sadale. There was no vertigo or unpleasant sensation about the head to produce this effect, save a slight fecling of lightness. Very soon, a numb, pricking sensation was folt in the fingers, extending gradually to the clbows. producing a stifness of the muscles of the parts, making it difficult to move the forearm and hand. In a few minutes the same sensation was observed in the feet, creeping slowly upward, until it reached the upper part of the thigh. The cyes now began to feel uncomfortable, causing me to brosh them frequently, to clear apparent obstructions from the lids. The pulse was soft and feeble, but not more frequent than usual. In dismounting, about an hour from the commencement of the symptoms, I found so much difficulty in walking as to require assistance to reach the house, the inferior extremities appearing nearly paralyzed. So litile pain or distress was felt, however, that I laughed heartily at the predicament I had so mavittingly placel myself in. Feciing anxious to get rid of this amoyance, as well as from the solicitude of those around me, i tried what effects smoking of tobacco would produce. I had been in the halit of using this luxury occasionally, and at this time had a strong desire for it. Whether from this cause, or from rest and conprosure, I soon felt very much relicved. Vision became clearer; the limbs less troublesome; and whilst sitting, little or no apparent effects of the poison remained. On rising. however, the inferior extremities persisted in their unwillingness to move ; but much less so than before. The whole day passed away without being entirely rid of these feelings, and it was not until I enjoyed my usual sleep that perfect vision was restored. I will observe, that the intellect appeared unaffectel, the bowels and kidneys were not disturbed, neither was any soporific effect produced. The action appeared to be confined to the brain, exhausting it of blocd, and dimishing its energy. Hence the partial paralysis, which a few more grains would, perhaps, have rendered complete. The aberration of vision arose from the same cause: and convulsions from exhaustion, as from loss of blood, would probably have followed, had a larger quantity been taken.
As I quote this case from momory, I cannot speak positively as to the lapse of time between the taking of the extract and is effects; otherwise this statement is as correct as one can be expected to describe from one's own experience and feclings.
In this instance; it will be olserved that a small quantity compared with what Dr. Earle took, produced symptoms of the poisoning of hemlock; so much so, that I could not be persuaded to experiment on myself with a larger quantity of: the same extract. A single pill of this, of three or four grains, produced very unpleasant effects on a young man af-
fected with chronic peritonitis. He described his feelings as a snapping and crackiing of the eyes with a drooping of the lids, and darkness before him-this was attended with a feeling of great weakness generally. An aged lady, affected with chronic inflammation of the liver, attended with constipation and indigestion, as well as extrene vigilance, the pulse frequent and toirgue coated, was put under the nee of this' remerly. She took four grains of the extract thrice daily. On the second day, she complained very much of soreness of the globes of the eyes, and a feeling of weight and tightness over the eyebrows, and dimuess of vision. The pulse became softer and less frequent; in a fer days the bowels moved naturaily, and she was soon able to enjoy calm and refreshing sleep. The disease, in this case, was of more than twenty years duration; and as no other medicine was given her at this time, the relief must be attributed entirely to the conium.
I mention these cases to show, that it was not from any peculiarity of constitution that caused the small quantity taken to produce the effects as described on myself. And although the seeds of the plent fumish the most active extract, I have known ten grains of that prepared from the fresh leaves cause very severe effects.

From these cases, I think we can safely conclude, that the extract of conium is an active remedy ; and that a few grains of a well prepared fresh article are sufficient to preve its nature and efficacy in disease. As the plant grows luxuriantly through the country, would it not he better for physicians to obtain the fruit or fresh leaves, and prepare an extract that would not deceive them, rather than prescribe hundreds of dollars' worth of such inert preparations as those experimented with by Di. Earle? At least, should not druggists be industrious enough to prepare it in sucla a manner as to insure an uniform effect from its adminisitration? -Amer. Jour. of Med. Sci.

## MOWHERY.

## THE USE OF INSTRUMENTS IN CHILDBIRTH.

## (To the Editor of Boston Medical and Surgrical Journal.)

SIR,-I noticed in your Journal of the 21 st inst., a communication of Dr. Comstock, in which he puts some interrogatories to the profession. The first is," What proportion of cases of midwifery, that have fallen within your practice, have required insirumental aid; and of those, what have been delivered by the forceps?" In order that 1 may answer this question to the understanding of your readers, it will be necessary to state how many cases of midwifery have been under my care. I have attended twelve hundred cases of midwifery at the full period of utero-gestation; of these cases two have had the forceps applied, and in one cranintomy has heen performed. In answer to the second question, I would say that the application of the forceps in one of the cases was umnecessary, the powers of the woman not flagring at all; and the consulting physician acknowledging that the labour would take place in two hours by the unaided efiorts of nature. To the third question I can only say that I have never seen a woman injured from a too long retention of the head; whereas, in the forceps cases it was a long time before the parts recovered their tone. To the fourth interrogatory"Have you ever scen a ruptured uterus from the use of ergot ?" I answer that I have not, nor any other injury to the woman. There has occured one case of ruptused uterus in the twelve hundred, and that took place from a hydrocephalous head without any irritation of the uterus by artificial means. The woman lived four days, and died from peritoneal inflammation. The ergot may often supersede the application of the tarcens where there is no
disproportion between the head of the child and the pelvis of the mother; but the pains are feeble, and there appears to be a want of muscular power in the uterus. I should have ro fear of errot ever proving injurious to the mother, but to the child it is somewhat hazardous unless there is a long interval between the labour pains. When that is the case, ergot may generally be given with safety to the child.
Of these twelve hundred women, several have had puerperal fever; but one has died of it. One woman died of pleurisy, being attacked with it on the day previous to the labour. By far the greater number of deaths have occurred some months after confinement, from consumption or canker. The proportion of deaths that have taken place from all causes, I have neglected to notice.

> Yours respectfulls,
E. Woódward.

Quincy, Mass,, Jamuary, 22, 1846.
[We strongly recommend the above article to the consideration of some of our "Meddlesome Midwifery" brethren. We could probably find some who have used the forceps rather more frequently than E . Woodward of Quincy, Mass.]

## MEDICAL JURISPRUDENCE.

UPON THE POSSIBILITY OF PRODUCING AFTER DEATI SOME OF THE CHARACTERS OF BURNS gCCURRNG DURING LIFE.

Py M. Chanpamlon,
Professor at the Military Hosiatal, Val-de.Grace.
To determine whether a wounu was inflicted during life or after death, is sometimes attciued with great difflcuities, and involves the medical witness in considerable perplexities frequently. The essential point to set ont from in such investigations should be an acctrate knowledge of these phenomena which characterize ine vital reaction upon the different tissues. The appearance of burns varies according to the agent-that is, whether it is caused by fire or some chemical substance; in the latter case, the appearances differ with the nature of the substance inflicting the injury. It is often necessary in legal medicine to form a precise opinion as to the intensity of burns, which is drawn simply from the redness of the surrounding skin or its greater or less carbonization. But brtween those there are intermediate shades which show themselves under the appearance of phlyctens and escars either superficial or deep. The question presents itself-Can these signs which are given as characteristie of burns taking place during life, be produced alter death? M. Léguy gave it as his opinion before the Tribunal in a particular case that a burn which took place before death, may be distinguished from one after death by the appearance of a red circle surrounding the part in the former; M. Accarie, on the other hand, that this distinction was of no value whatever, as the redness would disappear atter death, as the redness of erysipelas did. It has heen asserted that the presence of bullc indicates to a certainty that the burn had taken place during life;-but M. Leuret discovered by chance that heat applied to a part of the surface of the dead body can produce these blisters, provided the person had died anasarcous, and froti a aumber of experiments he made subsequently, he proved the possibility beyond a doubt in such sulyects, but was unable to produce them where there had heen no anasarca before death. This should be recorded, but sumething more than the isolated fact would be requiled before rigorous and satisfactory conclusions cou'd be safely drawn as to the main question. M. Champanillon has endeavoured to supply some deficiencies in our means of arriving at the trufity It is not, so to speak, by
the immediate contact of a heated body with an anasarcous part that blisters can be raised in a dead hody-in such a case the cuticle may indeed be elevated at the part, but it will be $b_{y}$ air, and never will contain a liquid; the number and size of the ampulla appear to him to depend upon the quantity of combustible employed, the distance of the beated body from the skin, and the duration and intensity of its rays. If a metalic ball heated to redness, or a metallic vessel filled with biling water, be placed within an inch or two from the anasarcous limb of a dead body, no vesications will be produced, because the heat is not furnished as quickly as it is dissipated; but if, on the contrary, the body be placed at a convenient distance from a fire, the rays of heat from which continue for some time of the same intensity, phlyctene will constantly be produced. By known physical laws, when the heat has diminished the atmospheric pressure on some spot of the trank or limbs, the serous fluids fow to the part, raise the epidermis, and form collections perfectly like the phlyctene which characterize burns in the living body. In prool of this theory of the phenomenon, take a cupping-glass of the proper size, apply it on an cedematous spot of a dead body, and exhaust its air, numerous vesicles filled with reduish serum will be immediately produced. The einoval of the atmospheric pressure from an cedematous part in a dead body, whether by heat or other means, seems the only cause of the production of these appearances; but the resications are produced in a different way in the living body-are in fact the result of the organic sensibility of the part. M. Leuret remarked that the serum was bloody in his observations, but the red colour is rare, for in M. C.'s experiments the serum was red in but six out of twenty-two instances. In experiments on dead bodies the blisterings do not appear suddenly in general-it takes from two to six hours for their appearance, but no donbt the time might he shortened by increasing the degree of heat. M. Champatillon having only experimented on youns subjects, cannot say but modifications might the found in the results from age, sex, Sc. In no cases has he remarked any difference to occur from the experiments being made immediately after death, or darins cadaverous rigidity, or when putrefaction has cimmenced; the productions of the vesications did not seem either favoured or retarted by these conditions of the subject. Christison has laid it down as an established principle that a permanent red circle round the part indicates that the burn look place duing life, and it has become therefore a guide in evitence, but M. C.'s observations are far from sanctioning the value of this test, as an appearance almost identical can be produced in the deat body, and in fact every experiment in which resications were prodaced, but one, the red lince, regularly indented, was also produced, and is considered by him accordingly as necessarily connected with the vesications. In the dead as in the living body the red line has the same superficial appearance, but an incisior through the ekin distinguishes them from each other beyond any doubt-in the one case, it is found a simple injection of the cutancous capillaries, perfectly resembling the vascular ramilications on the intestines of persons killed by drowning-in the second case, the blood is found extravasated amoner the tissues, and incomorated with them; the inflammation in the one is marked by an opaque homogeneous layer, but in the other there conld have been no vital reaction to cause it. When the cuticle is removed from the vesications caused by heat to the anasarcous limb of a dead body, the cutis is found converted into a white mass, its surface glucy, and a total absence of injected vessels- is this the case with burns occurring during life? M. C. had occasion to examine the bodies of four artillery-men covered with these vesications, who had been killed by the explosion of a mine; the cutis beneath these vesicles continued to present a high degree of inllammatory redness whioh could not be effaced by refrigerants, From all that has been said it appears demonstrable
that whether the hurn is caused before or after death, the appearances are precisely the same; that it is not possible to distinguish them except by a careful dissection of the skin; that even dissection funislies results too inconstant and subtle to be much depended on; and finally, that Christison's diagnosis is worth nothing when the subject for examination is anasarcous.-Annales d' Hysíne Publiquc.

## THE IYYDROPATHICSYSTEM.

## MMORTANT CORONER'S NQUEST.

Friday the investigation was concluded before Mr. W. Payne. concerning the death of Mr. Richard Dresser, who was alleged to have died from the effects of improner trestment received at the hydropathic establishment of Dr. Entis, Sudbroke-park, near Petersham.

Th• inquiry excited the most intense interest, and the jury-room was deasely crowded hy the professors of the hydropnithic system, and other members of the faculty, amengst whom were nliserved Dr. Schnitch, :he celuhrated German professor of hydropathy, Dr. Carié, Mr. B. Rotch, the edonty Magistrate, \&c. Dr. Elis was also in attendance, supported by Mr. Prodergast, the barzister, and Mr. Hance, sollcitor. Mr. Jones, soliciter, of Bucklersiury, attraded on behalf of the friends of the deceased.
The evidence taken prior to the adjournment went to show that the deceazed had for the last three weeks been subject, as he considered, to rheamatism and seiatica. IIe was very ill, and expresed himetf much in favour of the hyertropathic system of medi. cal treatment, and in cons-quence, his wife was incuced to write to Dr. Elis, who keeps is hydropathic establishment at Sindbroke Tark, Petersh:m, Surrey. The deceased went to Dr. Elis's es tublishment on Friday week last, and was there subjected to the water syitem of ireatment, under which he died on the following Tucsday.
John haynard was first ealled.- He suid, I am bath attendant at Dr. Ellis's, "stablishment, near Petershan. I reenifet meing the deceased Mr. Dresser, from the Friday evening thll the lues. day moning. When he came on Fridey evening 1 saw him, and he appared very ill. I saw nothing done for him before he was put to hed. On Saturday morning he had a bath at a temperature of 65 . He was in the bith for 90 secends. He w:s attend. ed by Dr. Elis daring the day, hat I waw nothing mowe done for him that day. I carricd water into the reom, beth hot and cold, during the day, two or three times, but I da't know what was done with it liy Dr. Ellis to Mr. Dresser. There was :hout half a gallon of cold and half a gallon of hot water cach might. On Sunday moning I prepared decenced a bath as before, and also carried in hot and cold water. When I carried water in, Mr. Dreser was lying on the bed in blabhets. After Mr. Dresect had the bath on simbay morning, he went out and wailked in the pleasure ground with me for abut five minates, and afterwards with Dr. Eilis. He then went to beeak last wath other pationts in the pablic rom. He afterweth lay down wiblathathens orer him, and I corried in water as before. I saw Mrs. Dreser there on the sumat. On Monday moming he again hat a bath, and tapioca and head and buter as nomsiment daring the day. I caraied ao water in on Monday unti the evening. A buth might have been given to Mr. Dresser without my hnowledge. I mate no observation on Monday evening abint the persiration in which deciased had previonsly bea having stoppus. I did not see Mrs. Dresser in the rom on Monday night, or make such an ohservation to her. I saw unceased on Tacsday momens, and I be'ieve that the Ductor sat up with him all Munday nigit. He had no bath on the Tuesday morning. It was about 7 orelock in the morning, and he was lying on the bed. I did not see him afterwards ative. I am nut aware that he had any other food than the tapioca and bread and butter 1 have spoken of. Une of the batbmen was ill on Monday, und the "boots" attended for him.

By Mr. Jones-The "hoots" was in deceased's room on Monday evening, and might have taken a bath without mu knowledge. There are no writien minutes of the temperature of the baths, but there are writeen orders us to the heat hung up in tie patient's rooms. We try the heat with a bermometer.

By Mr. Prendergast-On the Suaday 1 taok some castor oil to decensed by order of the Voctor, The dectased took all the food le desiyed.

By a Juror-We changed the temperature of the water frequent. ly, according to the Doctor's orders. I never tork the cold water without the hut.

Mr. Charles Waterworth, examined-I reside in Bengal phace, New Kent-road, and am a surgcon. I have known the deccased, Mir. Dresser, for six or seven years. Daring that period his gene. ral state of health bas been qood. I attended him for hecumatisut four years ago, occasionally in the stomach. I last attended him for jaundice and stomach derangement in March last, which arose from impediment to a natural flow of bile into the bowels. There was not discase of the liver. I have not secn him since the mid. dle of Aprit, when I attended the post mortem examination of the deceased's body. 'There was mothing to account for death but the congested state of the lungs and the heart. Mr. Hicks was present with me, and we both agrecd at the time as to the cause of death.
The Coroner here handed the paper, purporting to be the cause of death, to the withess, which Dr. Ellis had given to the de. ccased's cousin, and asked if he had read it?.

Witness-Yes, I have.
The Coroner- ${ }^{\text {los }}$ that statement agree with what was ascertained on a post moriem examination?

Witness-Not in any one point.
The Cormer again read the paper in question, and called the attention of the witness to varions symptoms the deceased was stated therein to have exhibited by Dr. Fillis, the whole of which he contradicted from his own observation of deceased.

Evidence resumed-From reading this paper I have no doubt the deccased was treated for disease of the liver and its consequences. Deceased was a man of very fecble power as regarded the action of the heart. I don't think there could have been any reason for treating him for diseased liver. The only judgment I can form of what discase deceased was labouring under from that report is difficulty of breathing. . Had the liver of the deccased been diseased as deseribed, nothing could more rapdy have de. strofed his life than the hydropathic system. The placing him in baths weuld pern the life of a patient labouring under djecase of the liver, particularly with suppuration, by lowering the power of the eystem.
By the Coroner- I attribnte the consestion of the lungs and heart of dectased to the external application of cold.

By Mr. Pendergast-A depression of animal powers-depression of the action of the heart, may cause congestion of lungs and incart, but not to this extent. The liser was not congested, although Mr. Hicks thought so; but I ean say I hardly ever saw a more healthy liver in my life. It is as falschood for any one to eay that this inveshgation has been induced by me. I never suggested to the widow to have her husband's body opened.

Mr. Prendergast here procecded to cross-examine the witness, and Mr: Waterworth loudly complained against the coursc of proreeding:
The Coroner interfered, and remarked, that as Mr. Prendergast was attending in belalf of a person whose position might be affected by the inquiry, it would, perhaps, be necessary to answer all the questions pat by that gentleman.

Mr. Waterworin was then cress-examined at great length, as to conversations he had with Mrs. Dresser, since death, and as to the post mortem cxamination.

Mr. Prendergast again commenced calling out to him-" Come, Mr. Medical man, do you mean to answer that?"
Mr. Waterworth again appealed to the curoner for protection.
The Coroner-I cannot, Mr. Prendergast, allow you to insult a respectable genteman, under examination in this court, by using such terms as-" Come, Mr. Medical-man;" do behave as a gentleman, Sir.
Mr. Prendergast (with great warmth)-Oh, you say that to me, do you?

The Coroner-Yes, and if there is a repetition of the conduct, $I$ shall have you removed from the court. I am always willing to give every license to professional men to diseharge their oncrous: duties before me as coroner, but I again siy if there is a repetition of such conduct as yours, Mr. Prendergast; I must order your re. moval. (Thes declaration of the coroner was acceived with a loud burst of approbation from all present, which was with some difijculty siinnced.)

Cross.ezamination enntinued-I think any buths in deceased's case, whether hot, or cold, or tepid, to have been injurious. I
think that warm water at 85 would, improperly used, produce
congcstion. It would depend upon how long it was applicd. I think it must be the opinion of every well-educated medical man, that tepid water improperly applied would produce congestion.

The Coroner said, as far as he was concerned, all the witncsses had been examined; if, bowever,- Mr. Prendergast chose to call uny on behalf of Dr. Eilis, he was quite at liberty to do so:
Mr. Prendergast said he did not lnow if it was necessary to call any one, but he claimed his right to address the jury, as there was a serious charge against Dr. Ellis, which might affect him criminallf, and he wished to show the law is it affected medical men; who were not responsible for the death of a patient under them when they were striving to do him grod.

The Coroner said that was the argument adduced in the case of St. John Long, and the judges overraled it.
Affer a long discussion between the coroner and the learned council, the former decided not to hear any address; as it was irregular.

Mr. Prendergast then desired to oficr cvidence as to Dr. Ellis'日 competency.

The Coroner said ho would hear any one called to prove that Dr. Ellis was a really qualifed practitioncr in the oye of the law.
Mr. Prendergast said it mattered not whether Dr. Ellis belonged to a certuin College of Surgens or not, he could practice legally without that. The learned counsel not calling any witness on this point.
The Coroner proceeded to sum up the case to the Jury. He observed, that in the case of Mr. St. Jolnn Long, wheh had been previonsly alluded to, the judres had laid down the law in a very cloar and perspicuous manner, as did also the Lord Chief Justice, who was then Attorney-General, and conducted the prosecution, That learned authority argued, is in the case of St. John Long. that although there might be no malice aforethought, if he proved the defendant had applied himself to the treatment of a case of which he knew nothing as to its proper tratment, and that he administered a liquid or medicine of the constitution of which he had no knowledge, he was elcarly guilty of manslaughter. The judges in the same case laid it down that, whether a man was a legraily qualified practitioner or not, went for nothing. The quesTion was, whether the treatment adopted was a rash and reckless treatment, and which had resulted in the death of the patient, or whether it was such treatment as might, under any other circumstanecs, have ended in fital results. Now, in the present instance, they had no evidence that Dr. Filis was not a duly qualified practitioner, and, therefore, the sule question for the Jury to consider was whether, in the present case, he had acted towards the patient in a bona fide manner, or had acted in his treatment with a gross degree of recklessncss or rashness and incaution, and thus caused death to ensur. If the Jury vieired the case as one of bout firle treatment, then they were bound to acequit Dr. Elis of all blame; but if, on the contrary, they considered he had acted with rasliness, then their verdict would be one of manslaughter.
About half-past 6 o'elock, the Jury recired to consider their verdict, and ufter about 20 miuutes' abserice canc into court, when

The Foreman said the Jury were of opinion "that Mr. R. Dresscr had lost his life by the improper treatment he reccived in the hydropathic establishment at Sudbrooke.park."
The Coroner-Do you say from gross rashnces, or from causes over which there was no control? You'must either state that, |or that it was in consequence of the rash treatment he received there. I must get the Jury to retire again and amend their verduct.

The Jury again retired for about a quarter of an hour, and on their return
The Foreman said-We have unanimously agreed "that Mr. Dresser's death resulted from the rash treatment he received under Dr. Ellis's carc. We are unanimous in a verdiet of manslaurhter against Dr. Ellise".
The Coroner then bound over Dr. Ellis in the sum of $£ 500$, and two of his friends, Mr. Jolin Casscil, of St. John's Villas, St. John's Woed, and Mr. Divid Coote, in the sum of $\mathbf{E} 250$ each, as his securities that the Doctor should appear and take his trial at the next session of the Central Criminal Court on the charge of manslaughter.

Mr. Prendergast having thanked the Corotier for the way in which he had conducted the inquiry, the procecdings terminated,

## MISCELLANEOUS:

## MESMERISM:

From is letier published in a Dublin paper, it appears that the fl00 note deposited for six months in the bank of Messrs Ball and Co., which was, according to the terms of the advertisement in the public papers, "to become the property of any person who, without opening the envelope in which it was contained, should describe cvery particular respecting the note-such as its yumber, its date, the bank at which it was payable, \&c., and who chould read three English words, plamly writen on a slip of paper, which was contained in the same envelope with the note," phas not been awarded. The six months expired on the 3lst Afareli, but the time was extended to the 18 th of April, to mect the convenienec of a lady, a professor of mesmerism, and the authoress of an ingeniolas book on the subject, who arrived from Iondon in the begianing of the month, and who expressed a wish to have some time louger to prepare her claifroyance for the test. Six taonths and seventeen days having expired, and no person haviong appeared at the bank to examine the envelope, it was epenced on the 1 Sth instant, in the presence of Messrs. Ball and Doyne, and one or two cther persons connected with the estab. jishment. The note proved to be a printed chaque issucd by the house of Messrs. Ball and Co., for $£ 1 \mathrm{CO}$, payable to (Edipus or bearer, and dated the 1st of October, 1845. The English words (written on a separate slip of paper) were, "To (Edipus alone." Although no persun applied at the bank to inspect the cnvelope containing the noic, some communications were received from different parts of Eagland, and one from America, (bat none from Ireland,) containiag mesmeric revelations respecting the number of the note; and one letice (fron Plynouth), cnclosed a pictare, or (intended) fac simile of it. It is unnecessary to add, that these mesmerically-inspired persons were mistaken in every par-ticular.-Provinsial Medical and Surgical Jumrnal.

CONCOURS FOR THEPROFESSORSHIP OF ANATOMY IN THE FACULIY OFMEDICINE OF PARIS.
The concours for the appointment of the successor of Breschet to the chair of anatomy in the School of Medicine and Surgery of Paris has been completed. The cxercises which the candidates have to undergo are five in number; 1. A written essay, the subject being the same for all the candidates, which must be composed in five hours, without any extraneous aid whatever, and subsequently read in public. 2. An oral lecture, one hour long, on an appointed subject, after twenty-four hours' preparation. 3. An oral lecture on an appointed subject, after three hours preparation, without any extraneous aid.. 4. An anatomical dissection or preparation, to be made without assistance, and a public lecture thereon. 5. A thesis to be supported by argument. The subject of ail these exercises is appointed by lot. The credit given to each candidate for what is termed "anterzor titles"-that is to say, his previous scientific and practical labors, is not determined until the foregoing exercises have been completed.
"The subject of the written essay on the present occasion was the Skin.
" The following is a list of the subjects of each lecture, with the name of the candidates to whom they were respectively allotted :-M. Dumeril-the secreting organs in general ; the liver. M. Chaissagnac-the organ of hearing; the Jiver. M. Bourgery-the eyc; articulation of the head with the spine. M. Despretz-the digestive srgans in seneral; articulation of the head with the spine. M. Gosse-lis-the cerebro-spinal nervous centres; testicle, vas deferens, and vesicula seminalis. M. Giraldes-comparison of the upper and the lower extremity; the bladder. M. Beclard-the hand; the appendages of the uterus: M. Denonvillers-the organs of sense compared with each other; the appendages of the uterus; $M$. Sanson-the respiratory apparatus; the appendages of the uterus.
"The subjects of the theses are :-M. Gosselin-The
ganglionary nervous system; its connections with the cere-bro-spinal system of nerves. M. Dumeril-the evolution of the feetus. M. Denonvilliers-comparison of the two muscular systems. M. Sanson-the articulations in general. M. Giraldes-How far comparative anatomy is useful in the study of human anatomy. M. Chaissagnac-the mucous membranes. M. Despretz-on the value of microscopic rescarches in anatomy. M. Beclard-the cartilaginous system. M. Bourgery-the appendages of the fatus and their development.-[M. Denonvilliers was the successful candidate.-Ed.]-New York Journal of Medicine.

## CONCOURS FOR THE CHAIR OF EXTERNAL PATHOLOGY (SURGERY) AT MONTPELLIER.

The following were the exercises performed by the candidates. The subject of the written essay was, 'Pass in review the principal uivisions of external pathology, to shew theoretically the relations between medicine and surgery.'
"In a lecture, after twenty-four hours' preparation, M. Guissac considered Cysts in gencral; M. Boyer, Scrofula in a surgical point of view; and M. Alquie, 'Tumours in general.
s M. Guissac's thesis was, On the improvements in surgery duc to the mogress of patholegical anatomy. M. Boyers's, What is due to nature and what to art in the cure of surgical diseases? M. Alquie's-Appreciate the labors of the Academy of Surgery.
"All the candidates had to deliver an extemporaneous lecture on the same subject, viz.-On forcign bodies in the air-passage.
ciM. Boyer was manimously elected Professor of Surgery, and the jury passed a warm eulogium in the most complimentary terms on M. Alquie."-Gazette Med. de Paris.

## MEDICAL INSTITUTIONS OF ITALY.

Dr. Morland in a letter to the Editor of the Boston Medical and Surgical Journal, published in the last number of that journal, thus observe with reference to the Medical Institutions of Italy:-

Italy certainly posscsses many very noble institutions for the poor and the sick-and was, during the middle ages, far in ad. vance of the rest of Europe. At Naples, the "Royal Poor Honse" shonld be mentioned as an institution of great usefulness and merit. It was commenced in 1751, and now is an immense building ; one side is allotted to females, and the other to males. At present, between 5 and 6000 (according to the statements) are maintained and instructed by this estabishoment: among other things the inmates are taught surgery,-The hospital for Incugeables is capable of contaiming upwards of 1000 persons; the sick are recosed trom all parts of the kingdom-and forcigners also, There are cliniques also-medicine, surecry midwifery, an anatomical theatre, Sc.

In Rome, the hospitals are not so well looking, internally, nor, I should think, so well conducted, as in most of the other Italian citics. The small hospital of Benfratelli, containing 80 beds, is much neater and better ventilated than Sin Spirito, the principal one. The Benfratclif is in the hands of the monks, who perform the scrvices and duties for the sicls. Tbe aspect of things was cxecedingly dubious as to the comfort of the patients, The immense wards of San Spirito are disgustingly dirty and wretchedly ventilated-and, what is worse, they bave the most unscientific, outrageous arrangenient of "sfoving awny" the poor patients in double tiers-taco tiers on cach side of the ward; the heads of pationts in tier No. 2 . lying at the feet of those in tier No. I. I have never seen so bad an orrangement in any hospital-nor one so calculated to produce bad effects. More is the shame, too, for this hospital is very richly endowed. The Foundling Hospital and the Lanatic Asylum are also in this building, which, as
you may imagine is immensely large. In the lunatic department the old restraint system is still in use. There are sevcral other lospitals in Rome; indeed, it is the boast there, "that no city in the world devotes so large a sum to institutions of charity, in proportion to the population. But some master's hand is wanted to direct and apply the abundant means. La Consolazione, near the Capitol, is the hospital allotted to surgical cases-a good number of these are stabling cascs. It is stated that the average number of patients is about 800 annually.
I attempted to enter the Hospital of San Michele, which is very large, tzoice, but was prevented each time: once, because it was the "sleeping time;" the other visit, on account of its boing fete day. The exclusion of visiters at the time when patients are asleep, is certainly a good idea; and 1 have often thought that the visits in the Parisian hospitals, made at so carly an hour, are decidedly more for the advantage und coavenience of the physician and student than that of the phor patient, who is often roused Irom a slumber of great importance to him, to respond to the interrogatories of the visiter. Certanly on the scate of comfort and likelifood of benefit to patient, the visiting hour as it is with us is far preferable.
San Michele is highiy spoken of, and is dountless worthy of the praise. It contains a house of Industry and of Correction. It is to be trusted that it is clcaner than San Sprito.
Florence, whosc admiraile and very extensive collection of anatomical models in wax, is so well known to all medieal travellers, and indeed universally visited, contains, I believe, miny two oi three hospitals. One of these, Santa Matia Nuova, is worthy of all praise for the remarkably excellent manarement exibibitcd. It is the medical school of Florence, and contiuned, at the time I sav it, 600 patients, having accommodations for 410 mpre. The csbinet of pathological and anatomical speciracns, although small. containcd many very good piecess; the skeleton of a child, with the bones of the skuil pushed widely apart hy hydrocephalic of fusion, the head beng criormous-i belicve laryer than any one I have scen ; many specimers of cxecssive distortion of the spinal column ; some wax models of tumours, \&c. \&e.. In a small cabinet are preserved the pieces of the human hody petrified by Segato. There were portions of the liver, the brain, the intestines; also the urgans of animals. You doubtless have heard of the table-top, inlaid with petrificd pieces of this nature: it , also, is kept in thas cabinet.

The bospital is remarkably airy, neat, well arranged, and has an air of great comfort; the different attendants are exceedmgly polite, and every part of the hospital was shown with great readi. iess, and pride, ton, as I thoughit. In the midwifery department are many separate rooms, in which the beds were very clean-the nurses neat and looking quite good-natured. There is a room for delivery, and others for those affected with after troubles. In this department was slown to me a bed different in construction from any I happen to have seen; it has, about one third of the way frem its head, a slight elevation (continued, of course to the head); beneath the polvis an aporture sufficiently large for the issue of materes frone the yenital organs; not large conough to interfore with the proper support of the body. Besides these things there is a succession of (ushions, to regulate, at pleasure, the position of the woman, and two crauks or handles pmoveable or fixed; at pleasure), by which the woman supports herself while undergoing the contractile efforts of the wornb. If I remomber right, the elevated portion at the head of the bed did not admit of graduation; I may be mistaken in this, however, as it would seen that it should and might casily.
The splendor of some of the buildings now devoted to hospitals in Italy is quite striking. In point of architceture, and, often, internal decoration, there probably is nothing of the same destination that equals them.
At Venice, the building known as the Seurla di San Marco is now a portion of an immense hospital, the remainder of which is frrmed out of the adjoining convent of the Dominican, and the Franciscan friars. It is really a long walk thruygh tins enormous building, which contains a handsome church and ia smaller chapel also, within its walls. The arrangement and planning of the wards, beds, and appurtenances, is most excellent-pienty of air, and evidently great attention to cleanliness.' The lunatic wards are in excellent condition-and so, as to comfori and attention, are the unfortunate inmates. This, I believe, was one of the first institutions to abandon the restraint system. We entered the largo room which contains the greater number of lunatics. Very many were working in one way or another; some came and gaz-
cal upon us, wilh not an idiot, bit a mischierous leer (this was the female ward); only ntic was at all riolent. She rushed to. warcis us foom the farther extremity of the hall, uttering a torrent of words in a lond tonc, and brandishing her knitring voork! I looked shatp at the necdles, but she, on arriving where we stood, stopped a moment-and then darted to a seat. where she continued scolding. But the physician of the establishment soon entered, and going to her, took her hands in his, and saying a fow worls she was quict as if by magic. Some two or three more were wild, but not violent; every part of this establishment seems admirably managed.

In the sick wards there is suspended over the head of cach bed the name of the disease, under which the individual is laboring.* I noticed a goodly erop of bronchitis many cases of pericarditis, several also of intermittent fever: in the surgical wards one case of spina bitida; abscess, fracture, Ecc. At the head of each bed also hangs a ticict, containing name, profession, age, dates symf. toms, internal and cxternal remedics, \&c. \&c.

1 should think that more medicine was given internally in the Italian hospitals than in the French-a supposition which may have some slight confirmation in the different size of the spaces atlotted to external and internal remedies in the ticket alluded to. A very formidable, but exceedingly groodlooking, apothecary's shop is located, sentinel-like, near the entrance to the wards. The remark above made in reference to the finish and ornament of some of the Italian hospitals, applies in its full cxtent in this case ; an author, speaking of the bulding, says-"The external arehitecture of its elevation is singularly fanciful and elega:at ; Byzantine ricincss blending itself wih the grace of classical arehitecture, combinations defying all rules, bat productive of a most magical effect The curver work of the ceilings is, in many of the rooms, peculiarly beautiful; the contrast and eifect are singular and striking in glancing from the rieh and varied ornaments above and aromd, to the palid countenances and paraphernalia of the sufierers stretched bencath."
At Milan, the "Ospedalo Margiore" is a noble establishment; a donation of the sitc of an ancient palace by Francesco Sforza in 1456 was its commencenent. The front is 800 feet in length; the writer of Murray's Guide Book speaks of the Gothic portion of the bailding as "magnificent." Besides this fine institution, there are the Lazareto and the Ospizio Trivalzi, the latter styled by the same writer : " noble monument of pious charity," con. taining 600 inmates, all over 70 years of age, well fed and clothed and permitted once a week to visit their friends." The Lazaretto, now disused, cexcept in some purtions for small shops, is in the form of a square clositer one quarter of a mile on cach side in length; in the centrai square is a chapcl. A fine crop of hay had been made and lay spread upon the turr; men and woman in some parts of the square still turnine it. The long cloistered arcades are quite strikmg. The Trizulzi I have not visited.
Al Genon, the great. Puor House is well worth secing ; clean and well administered; its church, Santa Maria, contans an in, valuable work of Michael Angelo. Deside this, are the Ospedale del Pammatone, and the Deaf and Dumb Institution: the former again confilming the remark made in regard to the ornate appearance of many of these institutions.

## CHEMISTRY, <br> OKONE.

1. Ozone-For some years, Prof. Schonbein, of Busle, has been cugaged in experimenting on the canse of the peculiar odor devoloped by electricity; daring the electrolysis of water, the oxygen given off is mixed with a small quantity of a volatile odo: rous substance; to this he has given the name of ozone. For some particulars of its production, see the American Journal of Science, Vols. xli and xlix. +
This subetanee he supposed to be a balogen body, analagous in its reactions and affinities to cilorinc and bromine, and indeed it has many points of resemblance ; it destroys vegetable colors,

## *This I have not noticed elsowhere in Italy.

+See also, Schonbein Archives de lיElectricué No, 15. Tom. iv. pp. 333-454; No. 17, Tom. v. p. 11-23; and N.i. 18, 'Tom. v. p. 337-342. Marignac, 17. v. p. 5-11, besudes other authorities quoted farther.
decomposes bromide, oodide and ferrocyanide of potassium, and acts upon the metals.

He regarded it as constituting the base of nitrogen, which he supposed to bea compound of ozone and hydrogen, analagous to the chiloride of hydrogen. Ie supposed it to be a secondary product of the electrolysis, and formed loy the reaction of the nas. cent orygen on the nitrogen of the atmospheric air diesolvod in the water.
M. Schonbein was subsequently enabled to produce this body by purcly chemical means; when phosphorus, at ordimary temperatures, is exposed to moist air, ozone is always rencrated.* This reaction is best observed by introducing into a large glass ressel, a piece of phosphorus one or two inches loner, aud sufficient water to partially cover it; the whole nay mow be cxposed for 24 hours to a temperature of 68 * to $75=F$., when the air will be found very highly chargred with ozone.

From its supposed nature as the base of nitroren, this body has attracted considerable attention from chemists, and has been made the subject of monch experimental rescarch, as well as a great deal of theorising and speculation. It has been particularly examined by M. Marignac and Mr. Wilhamson.

The former chemist has shown that ozone is generated by the electrolysis of dilute sulphuric acid, independently of the presence of nitrogen; it being produced cqually woll in a vessel cxhausted of air. ${ }^{\frac{1}{2} \text { M. Marignac also instifuted a serics of experiments on }}$ ozone produced by chemical means; ar was made to pass throuch a long tube containing phosphorus, and thus it became sufficiently charged with ozone for the purposes of experiment. Tie found that perfectly dry air is incapable of generating this substance, and also that air freed from oxygen hy passing ower ignited cop. per, produced no trace of $i t$; bitt if a very little oxygen (insufti. cient to support combustion for a moment, is present. ozone is produced with the same case as in ordinary air. Pure oxygen, nitrogen or hydromen alone, do sot produce it, hut if a small quantity of oxygen is mixcd with hydrogen, ozone is formed with great rapidity, on passing the mixture over pliosphorus.

Air impregnated with ozone looses entiroly its characteristic propertics, if passed through at tube heated between $570^{\circ}$ and $750^{\circ}$ F. This prinetple is absorbed by water, but not by oil of vitrioh, ammonia or chloride of calcium. If the air is passed through a solution of iodide of potassium, it loses its ofor, and the salt is decomposed with the liberation of free sodine. Some iodate of potassa is also fomd in the solution.

Ozone is readily absorbed by the metals. If the ozonized air is passed through a glass tube containings silver in a porous form, (from the decomposition of the acetate by incat,) it loses its pecuhar odor, and the silver is converted into a blackis! brown sub. stance. which whon thrown into water, gives off oxygen gas with efferveseence, and the remaining substance has all the characters of ordinary oxide of silver.
These curious results, many of which were presiously obtained by Schonbein, prove that nitrogen is met concerned in the formation of this substance, and scem to show that these peculiar reactions are owing to oxygen in a loosely combined state.

Mr. Williamson's experiments confirm these observations, and go to prove that it is a compound of oxygen and hydrogen. In his experiments, the oxygen from the electrolysis of dilute sulphuric acid, was thoroughly dried by passing it over chionde of calcium; the gas thus dried, was passed through a glass tube sontaining metallic copper, and heated to redness; water was formed abundantly and condensed in the cool part of tho tube, and this formation of water continued as long as the prosess lasted. From this it appears that water is formed by the reducing power of the metal. To remeys all surces of error, the oxygen was evolved from the electrolysis of u solution of sulphate of cupper, in whose decomposition no hydrogen is set free, the orygen thus obtained possessed strongly the peculiar uzone odor. If was now passed over copper (obtained by decomposing the oxide by carbo.

- The peculiar odor of phosphorus is probably due entirely to the formation of this new substance.
$\dagger$ In one experiment, water acidulated by sulphume acid was de. composed in a vessel, from which the air was completely exclud. od. After the decomposition had been continued for two or three days, and when more than one fourth of the liquid had been driven off in the form of gas, the oxygen was found to be as strong, ly impregnated with ozone as at the commencement of the exple. riment.
nic oxide, heated to redness, and water was immediately formed as in the last experiment.
In subsequent cxperiments, the ozonized oxyren previously dried, was passed through a glass tube heated to redness, by whach the peculiar odor was completcly destroyed: to this an accurately weighed chloride of caiciom tube was fixed, after the gras had been parsed a short time, the tube was found to have increased ferceptibly in weirht.

When the ozonized oxygen is passed through water, it com. mmicates to it the peculiar odor. If this solution is added to a mixture of starch paste and iodide of potassium, a blue color is produced ; and when mixed with ferrovyanide of potassium, this salt gives a blue precipitate with proto-salts of iron. Solutions of lime and baryta give, with a solution of ozone, a heavy and apparently ervstelline precipitatc.
Mr. Willituson states as the result of his experiments, that ozonc is mot produced by the action of air on phosphorus, but we eamot admit this, for several reasons. The results of M. Marignae were obsained by the substance formed in this manner, and many of the results obtained by him are preciscly the same with those of Mr. Williamson; and these as woll as nthers obtained, cannot be referred to the action of phosphoric acid.
Mr. Willizmson's arrangement, which consisted of a tube containing asbestos, on which the phosphurus was deposited by sublimation, was such as completcly to defeat the nbject in view; for athough ozone is generated by the actum of phosphorus on air, ye! it is itself absorbed or decompnsed, when. brought in contact with a large surface of phosphorus; and this result would especiall; occur when the phosphorus was heater, as it must have been from the exposare of so large a saffec. Our own observations also have shown that somedhing distinct from phosphoric or phosphorous acids, is gencrated by ibis proeess, for after the air enclosed in the globe had been thoronghy agitated and allowed to stand some hours, in contact with a misture of carbonate of lime and water, it still retained the peculiar odor, and the power of decomposiner indide and ferrocyanide of potassium.

The enciusion which these gentlemen deduced from ther experiments was, that the substance which presents these curious reactions is a compoumd of oxygen and hydrogen, containing more oxygen than water, and perhaps isomeric with the deutoxide of Thenard. This view was ecrtainly ennsnnant with their results, and indeed they apparod to be inesplicable by any other hypothesis. The oxidation of silver to such a degrec, and the conversion of iodide of potassium into iodate of potassa, evince the existence of oxygen in a febly combined and very active statr, white the formation of water by passing it through an ignited ghass tube or over heated copper, show that hydrogen is also present. More recenty, however, we have a memoir on this subject by M.M. Lonis Rivier, and Professor L. R. de Fellenberg,* which contains many interesting facts.
In their cxperiments they passed for two hours a scrics of electrical sparks through a ghass vessel containing humid air, and whose sides were moistencd with a solution of carbonate of potassa. The dir acçuired stronm!y the peculiar odor of ozone; which, by standing some time, disappared, and the liquid was found to contam nitrate of potassit. They then proceeded to examinc the ozone produced by chemical means. The arrangement consisted of a tube about thrce feet in length, in which were placed several pieces of phosphorus moislened with a little distilled water: to one end was adapted a recurved tube, dipping in a bottle which contained mills of lime; by means of an aspirator connected with the other the ; the air was made to pass slowly over the phosphorus and through the milk of lime, at the rate of 10 litres in 24 hours. The ozone thus formed was absorbed by the alkaline fluid, which after 21 hours was renoved. After filtration, it was evaporated to dryness, redisolved in distilled water, deconpased by curbonate of ammonia, and the risulting salt again de. composed by a solntion of stromia, when it afforded a salt in beautiful icedles, which gave the following reactions: with suiphuric: acid and brucinc, a reddish ycilow, and whth narcotine a red color; it destroyed the color of sulphate of indigo ; rendered bre wish-black the protosulphate of iron; its solution in water with pare hydrochlaric acid, readily dissolved gold leaf, and from the solution, chloride of tin threw down the purple precipitate of Cassius; some of the sait mixed with bisulphate of potassa, and heated in a glass tube, gave off abundant red vapors, which promptly blanched indiro paper hed in the tube.
*Archives de letectricite, Nu. 17, Tome v. 1845.

They next procceded to distill a portion of the acid liquor produced by the slow oxydation of phosphorus; a very gentle heat was applied, and about one third of the liquor distilled oyer; the vapors were received in a solution of strontian; at the close of the operation, this had-lost its alkaline reacton; a little more strontian was added, and the whole evaporated to dryness: by re-solution and crystallization, a quantity of salt in finc crystals was obtained, weighing about one and a half grains. This sals gave the same reactions as that above, which must be regarded as decisive evidence of nitric acid; the test with gold, and above all the red fumes evolved by the mixture with bisulphate of potassa, place its nature beyond all doubt.

From these experiments they concluded, that the reactions attributed to ozone, are in reality due to the presence of a small portion of nitrous acid; and they found that air mived with a very small portion of nitrous gas, acquired an odor similar to that. of ozone, blanching turmeric, dablia and indigo papers, and presenting gencrally the same phenomena as ozonized air. They supposed that the acid first formed is the nitrous, as pure nitric acid when very much diluted, does vot render blue a mixture of starch and iodide of potassium, which reaction is readily produced by the nitrous acid; and that the nitrites furmed are con. verted into nitrates by the absorption of oxygen during the subsequent evaporation.

These experiments seemed to show, that a close relation certainly exists between nitric acid and ozone, and many chemists were disposed to regard them as identical ; but the late researches of M. Schonbein* have cleared up to some extent the difficulties which seemed to envelop the subject.
M. Schonbein has suggested, that when water acts on hyponitric acid, there is formed besides hydrated nitric acid, a compound having the formula NO2 +HO 2 , and wheh he calls the peroxide of azote and hydrogen. It is to the presence of this in the solution of hypo-nitric acid, that we are to attribute its remarkable powers of oxidation. The same reaction takes place when the hypo-nitric acid is introdnced into a flask of moist air.
If having ozonized the air of a jar by phosphorus, we suspend in it a piece of earbonate of ammonia, till the air acquires the property of immediately blueing litmus paper, we shall find that it still retains all the propertics of ezonc-the peculiar odor, the power of decomposing iodide and ferro-cyanide of potassium. This body can then exist in an atmosplicre of carbonate of ammonia, and also, as is found by experiment, in one of pure am. monia.
If we take a porfion of hyponitric or fuming nitric, and dilnte it with water till it loses its color, and having poured a small portion of it into a flask, suspend in the air of the flask a piece of carbonate of ammonia, till the air acquires an allsaline reaction, we shall find that it is capable of decomposing iodide of potassiom, and blanchiug indigo paper, and even of converting a crystal of ferro-cyanide of potassium into the ferro-cyanide in the course of twenty-four hours ; in fact it prossesses all the properties of ordinary ozonzed air. The circumstances ander which these reactions are exhibited, do not admit of the view that the oxidizing agent is any acid of nitrogen, and hence M. Schoubcin concludes that there exists the compound $\mathrm{NO}+\mathrm{HO}$.
An interesting fact bearing on this, is the manner in which the mixture of hypo-nitric acid decomposes ferro cyanide of potassium. If we mix in a tube closed at one end, a solution of the ferro-cyanide with an acid solution prepared as above described, and then invert the tube in water, a violent disengagement of gas takes place, which is found to be pure nitric oxide, and the solution contains nitrate of potassa and the ferricyanide.
This decomposition camot be attributed to the nitric acid contained in the mixture, for. we find that pure nitric acid if slightly diluted, does not decompose the salt, as neither the hypo-ntric nor nitrous acids can exiet in the presence of water.

It is well known that ozone decomposes the iodide of potassium, liberating iodine. If to a solution of the iodide, we add the acid liquor above mentioned, an abundant escape of nitric uxide takes place, while iodine is precipitated and nutrate of potassa forms. Pure nitric when diluted with the same portion of water as in the acid mixture, does not decompose pure iodide oí potassian.

The results of Fellenberg are pertainly possessed of great interest. The production of nitric ạcid from the clements of the atmosphere by electricity, was long since noticed by Cavendish,
and is a woll establishod fact; but that this acid is formed by the action of phosphorus on a ir, is a new and highly interesting result. That this highly oxidized body should be gencrated in the preserice of phosphoras, scems at first paradoxical. and we can only refet it to that mysterious force, whech Berzelius has named catalysis, and which is in fact only a manifestation of the lav announced by La Place, that "a molecule set in motion by any power, can impart its own motion to another moleculc with which it may be in contact." In other words, the phosphorus. while in the act of oxydation, communicates its own peculiar state to the nitrogen, which is thus enabled to combine with the oxygen and gericrate nitrous acid. This certainly affords us a very striking Illustration of that law, and we think that this phenomonon is in. capable of explanation on any other principle. M. Marignac has suggested that electricity gencrated by the oxydation of the phosphorus may be the cause. Thus however scems improbable, as it has not been shown that it is excited during the process, and the theory rests on the idea that all chemical action is attended by a development of electricity. But when we consider that our most powerful electrical discharges can generate comparatively very minute guantities of ozone, the amount of electricity that can be supposed, under any circumstances, to be generated by the oxydation of a small piecc of phosphorus, stems utterly in. adequate to the result.
The experinents of Fellenberg, it will be seen, do not really militate against the existence of ozone; they have only shown that in the ordmary processes by which ozone is generated, nitric acid is also produced, and the sunilarity between the reactions of air mixed with a little nitric oxide, (by which hypo-nitric acid is generated, ) and ozonized air, is readily explained by the re-
searches of Schonbein. searches of Schonbein.
In explanation of the production of nitric acid and noone by the slow oxydation of phosphorus, we may suppose that nitrous or hyponitric acid is generated in the manner hefore suggested, which, by the action of aqueous vapor in the atmosphere, is converted into nitric acid, and the hypothetical peroxide of azote and hydrogen-
Alhough ozone produced by chemical means is probably al. ways associated with nitric oxide, yet we camot avoid the conclusion, apparently overlooked by Schonbein, that the ozone gencrated under certain circumstances, by the agency of ciectricty, (as in the experiments of Marignac atove mentioned, ) must be independent of, and frec from nitric rixide. The has the odor and all the other propertics of ozone produced hy chemicas means, and it is difficult to suppose that there sam be two compounds, one of which is 1102 and the other $\mathrm{NO} 2+1102$, identical in all their properties, and we are hence led to conclude, that, although such a compound may exist in the mixture of hypo. nitric acid and water, it does not ex ist in the ozonized air, whether this impregnation is effected by the action of phosphorus, or by agitation with the acid solution in question.
MM. Marignac and de la Rive* have recently obtained some results that seem to prove that water is not essental to the pro duction of ozone. They find that if a scrics of electrical sparks are passed through oxygen, however carefully dried, ozone is formed, and they suggest that ozone may be nothing more than oxyren, to which "a peculiar state of ohemical activity" is given by the inflaence of the electric current, M. Schonbein, however, regards the formation of ozone as a certain indecation of the presence of water in the gas, but in quantitics so minute as to escape the action of the ordinary hygrometive substances. The gentlemen above quoted however, find that the oxygen evolved from very pure chliorate of potassit previously fused, gave ozone, when exposed to the action of the electric spark, as abudantly and rapidly as moist oxygen.
M. Schonbein's hypothesis, consequently, rests on the assump. tion that the gas obtained as above and apparently perfectly dry, still contains water. The suggestion that it is modified oxygen, is one of great interest, and derives some weight from the recently observed facts regarding the allotropism of elementary bodics; and narticularly the late researches of Druper on the allotiopic condition of chlorinc. If oxygen, by the influence of tho cletric fluid assumes a state of exalted energy and chemical affinty, we are furnished with a key to the modus operandi of clectricity, in causing many chemical combinations. But in a science which is based on experimental knowledge, we must carefully avoid deducing our conclusion from isolated experiments or theoretical
*Archives de l'Electricite, No. 18, Tome v. 1815.
generalizations, however elegant those deductions may appear; and in the case of ozone, very careful investigations, performed with the most rigid exactness, are required before we can admit such a great and intercsting conclusion.

- At present, then, we agree with Prof. Schoubcin, that the great weight of evidence rests with the view that it is a deutoxite hydrogen; which, although differing from the deutoxide of of Thenard, has yet many striking points of rescmblance; both bleach powerfully, both transfurm many protoxides to peroxides, (as, for cxample, protoxides of calcium and barium,) both transform sulphirous to sulphuric acids, and arc decomposed by hcat and many organic substances.

With regard to the late results of Marignac and de la Rive, M. Schonbein remarks: 1. Ozouc has so strong an odor, that extremely small quantities are capable of aflecting the olfactory nerves. 2. Quantities of ozone by far too minute to be ascertained by weight, still perceptibly color ths test paste.

From this it follows that a quantity of aqucous vapor, ton small to be sensible by our most delicate hygroscopic tests, may generate so much ozone as shall be sensible both to the smell and the iodine test.

We have thus endeavoured to give a brief abstract of the present state of our knowledge with regard to this subject, and would refer the reader who wishes to examine the sulject more thoroughly, to the authoritics alrcady quoted.
'1.S. Нимт.

## TIIE



## MONTREAL, AUGUST 1, 1546.

## aUGMENTATION OF LICENSING BOARDS FOR THE PROVINCE.

Three months have now elapsed since our remarks against an augmentation of licensing boards for the Province were submitted to the profession. At that period the Provincial Legislature was in session, and we have some good grounds for believing that our observations tended, in no small degree, to that result which ended in the arrest of the bill until the deliberate opinion of the profession at large was heard on a matter of such vital importance to thoir interests. With the single exception of an anonymous scribbler in one of the French Canadian newspapers, who, from interested motives, made a miserable attempt to pervert the plain meaning and spirit of our remarks to subserve his own ends, not one sentence condemnatory of the position which we assumed and upheld has been publicly expressed. Our remarks were elicited from a high sense of what we conceived to be the true interests of the profession, and we called upon that profession, whose best interests we conceived we were supporting, to sustain us in them. During the interval which has elapsed, what has that profession Wane in the matter? Is this question to be permitted to lie Wver until the ensuing session of Parliament, and action When on it only when the bill again comes before the House? Or will the profession only awake from its leHargic slumber when it finds itself in a false position as oits future character, from the existence of a scrions vil which a little timely prudence and careful foresight pight have obviated? These are questions which each
member of the profession should himself individually answer; and, having done so, take such steps in the premises as the nature of the reflections which they may engender may clearly indicate.
From prisate letters which we have received from various quarters, wo have reason to know that our remarks have met with a vciy general approval ; and it is the more extraordinary, that this general concurrence in sentiment should have been followed by such complete apathy in acting, especially when we consider that although the measure be one of general importance, cach individurl member of the profession becomes individually affected. This indifference, for we believe it to be only apparent, may be explained by the often quoted, but still two frequently true, adage, that what is every body's business is usually nobody's ; but we can hardly allow ourselves to think that, in a matter of such moment, some minds will not be found who will step forth and become prominent in the moventent. There are fewsubjects of medical polity which could so well or deservedly receive attention at the hands of the medical societies of the Province. These are the parties who ought first to move in the matter, and it is to them that the profession at large should in the first instance turn for the first expression of opinion.

We regard the position of the profession in this Province, at the present noment, as one of ominous import, for its future weal or woe. It is at present in what may, with perfect accuracy, be termed, a transition state, and its future character and respectability most manifestly depend on its truthfulness to itself. A Bill, affecting its interests in every point of view, will undoubtedly become, at an carly day, a legislative enactinent, and it remains for the profession to have, or not to have, incorporated as a part of it, clauses which may render every educational restriction a cypher or a dead letter, in exact accordance with their own energy or inactivity in denouncing or permitting any such alteration, as was attempted in the one proposed at the last session.

## The Credit System in Medical Schools.-The follow-

 ing, from the Western Lancet, with the observations of the $\mathcal{N c w}$ Orleins Medical and Surgical Journal, will, we think, be found to apply to other latitudes than those of New Orlcans or Lexington. We therefore copy it:"We are fully satisfied that an influence extremely detrimental to the profession has grown out of the custom of granting credit in medical schools. The object in adopting this course is to secure a large class, perhaps for the purpose of out-numbering a rival school; and the consequence is, that all whe present themselves, wholly irrespective of merit or qualifications, are duly enrolled as medical students, and their names go out to the world, swelling the catalogue of some highly flourishing school.

The success of such pupils operates as an incentive to others to engage in the study, seeing that it is so cheap; and many a one, who either has no occupation, or who may be too indolent to follow a mechanical pursuit, forthwith dofis his humbler business, and unites in swelling the Esculapian throng. In this way the profession becomes thronged with practitioners of every grade, and all parties, cven those favoured with the gratuity, are ultimately injured. It is true, some meritorious men will be found unable to pay; but there can be no doubt, that the indiseriminate admission of pupils into medical schools is not only an act of injustice to those who do pay, but also tends directly to degrade the profession. We are gratified, therefore, to state, that the Transylania Medieal School has determined, by formal resolution, to abolish, entirely, we credit system: and these resolutions will be strictly adhered to. We hope all other schools will manifest a similar regard for the interests of the profession, and follow an example so worthy of imi-tation."-Western Lancet.
"In this hope we fully concur. The couse adopted by some schools in this comury is not only undimnified, but highly injurions to the profession; and must ultimately lead to their own disgrace and downfall. In order to swell their numbers, for of numbers is their onty boast, they will take any who offer. The great misfortune, too, is, that pecuniary deficiency is often not the most serious one that stands in the way of these nspirants, in their attempts to obtain admission into schools where less importance is attached to numbers. We have known ignorant merhanies, who could with diffculty write their own names, to turn steam doctors; and, after spending their hard-carned pittance, in endeavouring to carry out the tricks of fraud and ignorance, they determined to obtain a backer in some medical school. This they may do, 'without money and without price;' and we may add, without labour, study, or any other qualification: it is enough that they have honomed the learned professors with the light of their countenances. They are even offered advantages over the better class of students; for they have only to apply to the Dean, who registers them as Mr. $\quad$, of $\longrightarrow$, Practitioner ; and, after four months of attendance, he gres forth, without fail, to come out under new colours. In this way our country is now being nooded with men, whose only title to respectability of any kind is in the parchment issued by schools which are certainly jeopardizing their own claims to the respect of the profession generally.-New Orleans Medical and Surgical Journab, July.

Statistics of Schools of Medicinc in the United States.-The followiig items of intelligence from Medical Institutions in the United States will be found to be not devoid of interest. The table which we lave given below, has been compiled from those furnished by our esteemed contemporaries, the New York Journal of Medicine, and the Buffalo Medical Journal, and we bolieve that the list of schools is as complete as it can be rendered.

|  | $\begin{gathered} \text { Class } \\ \text { 1845-6. } \end{gathered}$ | Number of Graduates |
| :---: | :---: | :---: |
| University of Pennsylvania | 471 | 168 |
| Jefferson MedicaltCollege, Philadelphia. | 459 | 170 |
| University of the City of New York. | 425 | 131 |
| College of Physicians and Surgeons, New |  | 38 |
| Geneva Medical College, New York | 178 | 39 |
| Albany Medical College, New York. | 115 | 42 |
| Harvard University, Boston, Mass.. | 159 | 31 |
| Berkshire Medical Institution, Mass | 142 | 35 |
| Castleton Medical College. | 140 | 36 |
| Yale Medical College, New Haven, Conn. | - 53 | 19 |
| Cleveland Medical College, Ohio. | 195 | 52 |
| Willoughby Medical College, Ohio. | 164 | 40 |
| Vermont Medical College, Woodstock. |  | 24 |
| Ohio Medical College, Cincinnati. | 195 | 46 |
| Transylvania Medical College, Lexington, Ky. |  | 64 |
| Louisville Medical Institute.. | 345 | 43 |
| University of Maryland, Baltimore.. | 147 | 40 |
| Bowdoin Medical College, Brunswick, Mane.. | 73 | 19 |
| Rush Medical College, Chicago, Ill. | 50 | 3 |
| Indiana Medical Collegre, LaPorte. | SI | ís |
| Mudical College of Lomisiana, New Oncans |  | 20 |
| Medical College of Georgia, Augusta. | 112 | 15 |
| Missouri University, St. Louis.. . | 92 | 29 |
| Kemper College, St. Lonis. | - | 11 |
| Western Reserve College.. | 160 |  |
| Pennsylvania Medical College. |  | 36 |
| Philadelphia College of Pharmacy.. | - | 16 |
| College of Dental Surgery, Baltimore.. | - | 9 |

Caledonia Springs.-This fasinonable Spa appears still, and deservedly, to maintain its claims to general favour. The beneficial eflects which a course of these mineral waters is capable of inducing in some diseases, have been too generally recognised to admit of dispute at present. The cases which appear to have most readily yielled to a treatment by them, are chronic rheumatism, some forms of dyspepsia, and some cutaneous affections. We have seen some cases of secondary syphilis decidedly benefitted, the curative agents being, in all probability, the iodine and the sulphuretted hydrogen, which, according to Chilton's analysis, are met with in all the springs, of which there are three kinds. A fourth spring was discovered a few ycars ago, and was analytically examined by Prof. Williamson, of Queen's College, Kingston. It has proved itsolf to be a strong saline one, containing both iodine and bromine. It is probable that to the same active agents must be attributed the benefits derived in the other diseases to which we have thus generally adverted, conjoined with the change of air, more restricted and moderate diet, and the other concomitants usually met with at watering places. A physician (Dr. Stirling) is in daily attendance at the Springs, whose advice should be taken by invalids, not only as to the proper mineral water to use, but also to the proper regiminal treatment to be adopted
in the particular case, for we believe that a strict regimen has as much to do with the amount of good derivable from a sojourn there as the mere drinking of the waters. We subjoin the several analyses of these waters by Dr. Chilton and Professor Williamson:intermittent spring-Sp. Gr. 1,0092.
By James Willianson, Esq., Jrofessor of Chemistry, Quecn's Collerc, Kingston.

: Grains, . $\overline{123,04}$

Gases, . $\left\{\begin{array}{l}\text { Light Carburetted Hydrogen, } \\ \text { Carbonic Acid Gas, }\end{array}\right.$ $\left\{\begin{array}{l}\text { Sulphuretted Hydrogen. }\end{array}\right.$
gas sprine:
By! Jumes R. Chillon, M.D., Now I'mk.
One quart of Water.


Gases, $\quad-\left\{\begin{array}{l}\text { Carbonic Acid, } \\ \text { Sulphuretted Hydrugru, } \\ \text { Nitrogen. }\end{array}\right.$
By Jumes R. Chillon, M.D., New Yort. One quart of Water.


Gases, $\left\{\begin{array}{lr}\text { Carbonic Acid, } & 3,20 \\ \text { Sulphuretted Hydrogen, } & 6,14\end{array}\right.$
9,34 cub. inches.
saline spring.
By James R. Chilton, M.D., New York.
One quart of Water.
Chloride of Sodium, . . . 108,22

Do. Magnesium, $\quad: \quad: \quad 2,01$
Sulphate of Line, $\quad: \quad 1,28$


Onc hundred cubic inclies of the Gas from the Gas Spring, annlyzed, is as follows:

| Light Carburetted Hydrogen, | 82,90 |
| :---: | :---: |
| Nitrogen, . | 6,00 |
| Oxygen, | 1,56 |
| Sulphuretted Hydrogen, | 4,00 |
| Carbonic Acid, | 5,51 |
| Cubic inches | 90,97 |

Appointment to McGill College.-At a late meeting of the Governors of the University of MeGill College, Edmund A. Meredith, Fsed., A.M., L.L.B. of Trinity College, Dublin, was appointed Principal, protemporc.

Appointment of Members to the Medical BoardHis Excellency the Governor General has been pleased to associate upon the Board of Medical Examiners for the District of Montreal, under the Ordinance 28, Geo. III., cap. S, the following gentemen, viz. :-

Wolfred Nelson,
Francis Badgley,
Pierre Antoine Concfroy Munro,
Willian Sutherland, and
Jean Gaspard Bibaud, Esquires, Doctors of Medicine. - Cunadu Gazettc, July 26.

Natural History Society.-At the annual meeting of this Socicty, held at its House on May 1 Sth ult., the following gentlemen were elected officers for the ensluing year:-
Presilent.
.James Crawford M.D.
1st. Vice President.
G. W. Campbell, M.D.
®d. " " .............A. H. David, M.D.
3rd. " «. ............S. C. Sewell, M.D.
Corresponding Secretary. ....... W. Fraser, M.D.
Recording Secretary.............C. H. Payne, M.D.
Treasurer . . . . . . . . . . . . . . . . . . A. LaRocque, Esq.
Cabinet keeper and Librarian....W. M. B. Hartley, Esq-
(John Ostell, Esq.
Council.

Library Committee.
$\left\{\begin{array}{l}\text { J. H. Joseph, Esq. } \\ \text { A. F. Holmes M.D. } \\ \text { M. McCulloch, M.D. } \\ \text { John Glass, Esq. }\end{array}\right.$

Rev. W.T. Leach, A.M.
A. F. Holmes, M.D.
\{ J. H. Joseph, Esq-
J. Logan, Esq.
(W. Edmonstone, Esq.

[^1]Notice to Subscribers.-Frequent complaints have reached us of the irregular delivery of the Journal at the residences of our city subscribers. In some instances omissions have taken phace for two or three nurnbers consecutively. Anxious to avoid what is a source of great annoyance to all parties, we have placed the distribution of the copies for subscribers in the city in the hands of another party; and, should irregularities in this respect hereafter occur, we should feel obliged by a prompt intimation of the circumstance. We have heard of no complaints, of late, from conntry subseribers.

RETURN OF SICK IN THE MARINE HOSPITAL, QUE. BEC, FOR THE MONTHS OF MAY \& JUNE, 18.16.

Jos. Panchaud, Esq., M.D., Physician. James Doulilas, Esfy., Surgcon.



Qucbec, July G, 1 S46.

## REPORT OF TIE MONTREAL GENERAL IIOSPITAL FROM 27 TII APRIL TO 1st JULY, 1846.

$\left.\begin{array}{l}\text { Dr. Hall, } \\ \text { Dr. Bruneau, }\end{array}\right\}$ Attending Physicians.



Biseases and accidents.

| Abscessus, . . . . . . 5 |  |
| :---: | :---: |
| Ambastio, . . . . . . 3 | Incontinentia Urims, |
| Amemorthor, . . . . 7 | Lagostoma, - |
| Aprolexy, . . . . . . 1 | Lumber Abscess, |
| Ascites, . . . . . . . 1 | Lupis Exedens, |
| Bronclitis, . . . . . . 19 | Mania, - |
| Bubo, . . . . . . . 2 | Mastoitis, |
| Catarrhus Chrmnicus, '. . 1 | Menorrhagia, |
| Cholera (sporadica), . . 2 | Morbus Cordis, |
| Colica, - . . . . . ${ }^{\text {a }}$ | OEdema, |
| Conjunctuvitis, . . . . 2 | Ophthalmia, |
| Contusio, . . . . . . 18 | Orchitis, |
| Coup de Solicl; . . . . 1 | Otorrboa, |
| Cynanche, . . . . . . 1 | Paralysis, |
| Debilitas, ${ }^{\text {a }}$. - . . . 2 | Paronychia, |
| Delirim Tremens, . . . 7 | Periostitis, |
| Diarrhou, . . . . . . 16 | Phthisis, |
| Dislocatio, . . . . . . 2 | Ileuritis, |
| Dyspepsia, . . . . . . 5 | Pleurodynia, |
| Dysuria, - . . . - . J | Pneumonia, |
| Eczema, . . . . . . ${ }^{2}$ | Porrigo, |
| Enteritis, . . . . . . 1 | Prolapsus Uteri, |
| Epilcpsia, - . - . . 2 | Psora, - |
| Erysipclas, . . . . . . 4 | Relaxation of Uterus; |
| Erythema, . . . . . 1 | Rheumatismus, |
| Febris Com. Cont., . . . 76 | Rupia, |
| " Typhus, . . . . 13 | Scarlatina, . |
| " Intermittcins, . . . 1 | Scorbutus, |
| Fractura, . . . . . . 2 | Scrofula, |
| Furunculas, . . . . . 2 | Sinus (in Testicle), |
| Gastritis, . . . . . . 1 | Subluxatio, . - |
| Gastrodyna, - . . . 2 | Synovitis, |
| Gonorrhca Preputialis, . . 1 | Syphilis, |
| Hematemesis, . . . . . 1 | Strictura, |
| Ifemorrhois, . . . . . 1 | Tonsilitis, |
| Herpes Circinatus, - . 1 | Tumor, . . . . . . . 1 |
| "M Miliare, . . . . 1 | Ulcus, . . . . . . 21 |

Alexander Long, M.D., Mousc Surgeon.

## BOOKS, \&c., RECEIVED DURING THE MONTUS OF JUNE AND JULY.

The medical Examiner, Philadelphia.-June, July.
The New York Medical and Surgica! Reporter-Nos. 17, 18, 19, and 20.
Dublin Medical Press, May 15, 22, 29 ; June 3, 10, 17, 24; July 1.

Geological Survey of Canada-Report of Progress for the year 1844.-Montreal, Lovell \& Gibson, 1846.

Wiley \& Putnam's Literary News Letter-June.
Boston Medical and Surgical Journal, Nos. 18, 19, 20, 21, 22, 23,24 , and 25.
The Western Lancet \& Medical Library, devoted to Medical and Surgical Science-Vol. v. Nos. 1 and 2.
Southern Medical and Surgical Journal-June, July.
St. Lnuis Medical \& Surgical Journal.-Vol, ii. No. 1.
The American Journal and Library of Dental Science--June.
Kernot's Catalogue of Amcrican and English Books.-Now York.

Illustrated Botany-June.
American Journal of the Modical Science-July.
American Journal of Science and Arts-July.
Buffalo Medical Journal-July.
Southern Journal of Medicine and Pharmacy-Ju'y,
The Medical News and Library-Jnly.
Missouri Medical and Surgical Journal-July.

Bibl of Mortality for the City of Montreal, for the month ending June 30, 1846.


MONTHLY METEOROLOGICAL REGISTER AT MONTREAL FOR JUNE, 1846.

| ${ }^{2}$ | Thermometer. |  |  |  | Barometer. |  |  |  | Winds. |  |  | Weather. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7 А м. | 3 р.м. | 10 | Mcan. |  |  | 10 mm | Mean | 7 A.M. | Noon. | 6 р.м. | 7 A.s. | 3 р.м. | $10 \mathrm{p.m}$ |
| 1, | $+63$ | $+90$ | +71 | +76.5 | 2984 | 29.85 | 29.80 | 29.83 | S. by E. | S. by E. | S. by E. | Farr | Fair | Fair |
| 2, | "72 | " 87 | $\therefore 70$ | $\checkmark 79.5$ | 29.78 | 29.72 | 29.70 | 29.73 | S. by E. | W. | W. | Fair | Th太rn | Rain |
| 3. | " 62 | " 81 | " 68 | " 71.5 | 23.84 | 29.77 | 29.72 | 29.78 | W. | w. | W. | Fuir | Fair | Fair |
| 4, | " 61 | " 84 | " 68 | " 62.5 | 29.75 | 29.72 | 39.78 | 29.75 | W. | W. | W. | Fair | Fair | Rain |
| 5. | '65 | " 69 | " 57 | " 67.- | 29.60 | 29.69 | 29.60 | 29.63 | W. | W. | W. | Eair | Rain | Rain |
| 6 | -60 | " 74 | " 55 | " $67 .-$ | 29.65 | 29.71 | 29.55 | 29.74 | W. | W. | W. | Fair | Rain | Rain |
| 7. | " 47 | " 59 | " 53 | " 53.- | 30.00 | 30.03 | 30.12 | 30.05 | W. | W. | W. S. | Fair | Rain | Rain |
| 8 , | " 45 | " 70 | " 55 | " 57.5 | 30.32 | 30.31 | 30.32 | 30.32 | W. | W. | W. | Fair | Rain | Rain |
| 9, | " 53 | " 83 | -62 | " 68.- | 30.37 | 30.26 | 3012 | 30.25 | s w by s | S.W.byw. | W. by S. | Fair | Fair | Fair |
| 10, | " 60 | ${ }^{1} 85$ | " 67 | $\because 72.5$ | 30.02 | 29.83 | 29.80 | 29.88 | W.by S. | W. | W. ${ }^{\text {W. }}$ | Fair | Fair | Fair |
| 11, | " 54 | * 75 | " 56 | ${ }^{6} 64.5$ | 29.96 | 30.04 | 30.14 | 30.05 | Ne by E | N. F. | N. E. | Fair | Fair | Fair |
| 12, | " 53 | " 78 | " 58 | " 65.5 | 30.27 | 30.28 | 30.29 | 30.28 | N. E. | N. E. | N. E. | Fair | Fair | Fair |
| 13, | "60 | "81 | " 65 | " 70.5 | 30.30 | 30.21 | 30.05 | 30.20 | N, E. | E. by S. | E.S. E | Fair | Fair | Fair |
| 14, | " 68 | " 85 | - 71 | " 76.5 | 30.05 | 29.95 | 29.87 | 29.96 | S. E. | S. E. | S. | Fair | Fair | Fair |
| 15, | " 70 | - 80 | " 61 | * 75.-- | 29.83 | 29.88 | 29.92 | 29.88 | S. W. | S. W. | N. E. | E'air | ThSEn | Fair |
| 16, | ${ }^{1} 64$ | - 81 | " 62 | " 72.5 | 30.00 | 29.98 | 29.95 | 29.98 | N. E. | N. E. | E. N. E. | Fair* | Fair | Fair |
| 17. | " 62 | " 86 | " 70 | " 74.- | 29.94 | 29.93 | 29.90 | 29.92 | S.S.E. | S, W. | S.W. | Fair | Fair | Fajr |
| 18, | $\because 66$ | "66 | " 55 | " 66.- | 29.96 | 2992 | 29.50 | 29.89 | N. by W. | N. | N. E. | Fair | Rain | Rain |
| 19, | " 67 | " 71 | " 56 | " 69. | 20.70 | 29.63 | 29.59 | 29.64 | N.E. | N.F. | N. E. | Rain | Rain | Rn\&ti |
| 20, | " 52 | " 60 | " 51 | " 56. . | 29.66 | 29.77 | 29.73 | 29.72 | N E by e | N.E. | N. E. | Rain | Fair | Rain |
| 21, | - 48 | - 49 | "43 | " 48.5 | 29.70 | 29.72 | 29.75 | 29.72 | N. E. | N. E. | N. E. | Rain | Rain | Rain |
| 22, | " 46 | " 56 | '"48 | " $51 .-$ | 29.89 | 29.94 | 30.26 | 30.03 | N. E. | N. E. | E. N. E. | Fair | Rain | Fair |
| 23, | " 57 | ", 69 | " 55 | " $63 .-$ | 30.17 | 30.14 | 30.07 | 30.13 | N. E. | N. | N. | Fair | Fair | Fair |
| 24, | " 60 | ، 88 | " 66 | " 74.- | 30.03 | 29.97 | 29.94 | 29.98 | W. | N. W. | N. W. | Farr | Fair | Fair |
| 25; | " 67 | " 85 | " 66 | "76.- | 29.98 | 29.93 | 29.93 | 29.95 | N.W. | N. W. | N. W. | Far | Fair | Fair |
| 26, | " 66 | "86 | ${ }^{1} 67$ | " 76. | 23.90 | 29.87 | 29.92 | 29.90 | N. W. | N.:E. |  | Fair | Fair | Sh'ers |
| 27, | " 62 | " 81 | " 65 | " 71.5 | 29.97 | 29.94 | 29.93 | 29.95 | F. | E. | E. | Fair | Fair | Fair |
| 28, | "64 | " 85 | " 73 | " 74.5 | 29.96 | 29.93 | 29.93 | 29.94 | E . | E. | E. | Eair | Fair | Fair |
| 59, | " 70 | " 93 | " 75 | " 81.5 | 29.97 | 29.91 | 29.90 | 29.93 | E. | E . | E. | Fair | Fair | Fair |
| 30, | " 74 | "96 | * 79 | " 85.- | 29.96 | 29.93 | 29.90 | 29.93 | E. | E. | E. | Fair | Fair | Fair |


Mean of the Month, $+68^{\circ} .83$.

Barometer, $\left\{\begin{array}{l}\text { Maximum, } \\ \text { Minimum, } \\ 20.60 \\ \text { 29.6. } \\ \text { is }\end{array}\right.$
Mean of Month, 29.93 Inches.






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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| －spnot sumsedatiot－rajo Ansoic |  | $x_{1}$ | －${ }^{\text {N } 4 \%}$ | －${ }^{\text {N }}$ | $88^{2}$ | $\sum_{L S^{\circ}}^{8 L}$ | 82 | $\left.\right\|_{96^{\circ}} ^{8 L^{\circ}}$ | $\left.\right\|_{889^{\circ}} ^{8 .}$ | $\begin{aligned} & \angle E G^{\circ} \\ & { }_{8 F O}^{\circ} \end{aligned}$ | ๕89 | $809^{\circ}$ | 8669 | $012$ | $8.82$ | $9$ |  | ${ }^{1709} 6$ | ILS＇6\％ | ช\％ $9^{\circ} 67$ | $\begin{aligned} & 0 \% \\ & 60 \\ & \hline \end{aligned}$ |
|  |  |  | －ד | $\mathrm{K}_{4}{ }^{\text {r }}$ |  |  | $29^{\circ}$ | ${ }^{06}$ |  |  |  |  |  |  | 9.92 | $\stackrel{\square}{ } \stackrel{1}{ }$ |  |  | $0{ }^{\text {c }}$＂ 6 \％ | ¢¢G ${ }^{\text {¢G\％}}$ | $8{ }^{6}$ |
|  |  |  | － | $\mathrm{M}^{\prime} \mathrm{N}^{\prime} \mathrm{M}$ | IS ${ }^{\circ}$ | $88^{\circ}$ | IL | $98^{\circ}$ | も | OIS＊ | LSV | za． | ع\％ 29 | 79 | $6 \cdot 89$ | \＆＇89 | ELIT＇6\％ | \％ | \％ 09.6 c | ${ }^{9}\left[9^{\circ} 6 \%\right.$ | 2 |
| noto Sticmad wox－ud $\varepsilon$ |  | －－up | － M Aq | －ups | ${ }_{68}{ }_{6}{ }^{\circ}$ | ${ }_{6 c}^{62 .}$ | ${ }_{6 c}^{6 c^{\circ}}$ | ${ }_{9}^{29}{ }^{\circ}$ | c6V | ${ }^{889}{ }^{\text {cio }}$ | S0 | ${ }^{0}$ | \＄802 | 9 | L＇08 | ¢：99 | LOTG＇6 | c6 | 11906\％ | $869^{6} 6$ \％ | 97 |
|  |  | － | $\cdot \mathrm{H} \cdot \mathrm{N} \cdot \mathrm{M}$ | －upe？ | ${ }_{25}{ }^{\circ}$ | $9{ }^{\circ}$ | LT | ${ }_{02}^{95}$ | 1．86． | 18\％ | ${ }_{5 \sim 1}$ |  |  | ${ }_{8}^{9} \mathbf{2} 9$ |  |  |  |  | 869＇6\％ | 08L＇6\％ | \％ |
|  |  | － M N＇N |  | M ${ }^{\text {N }}$－ | $65^{\circ}$ | ${ }_{9}{ }^{\circ}$ | $00^{*}$ |  | HE | \％99\％ |  |  | It 29 | $0 \cdot 19$ | 8L |  |  |  |  |  | 18 |
| uld | leiro | u［P） | M 1 | $\cdot \mathrm{A}$ N | 89 ${ }^{\circ}$ | $05^{\circ}$ | $0{ }^{0}$ | 12 | LIE． | 2LE | \％ 2 | 18 | \＆\％＇09 | 229 | ${ }_{\square} 89$ | ${ }^{6} 9$ | CELL 6 \％ | $6{ }^{6}$ | 9¢L 60 | 988 | \％ |
|  |  |  | M ${ }^{\text {N }}$ | ${ }^{1}{ }^{\circ} \mathrm{N}$ |  |  | 19 | $8{ }^{2}$ |  |  |  |  |  |  | \％89 | \％ 9 |  |  | －¢9＊i\％ | 1896\％ | ${ }_{\text {IT }}$ |
| cribi iswiana spena | 090．0 | NR． $1 \cdot$ | ${ }^{\mathrm{N} S 4} \mathrm{M} \mathrm{M}^{\mathrm{N}}$ | $\mathrm{M}^{\circ} \mathrm{N} \mathrm{N}$ | 4. | $18^{\circ}$ | 12 | 08. | 6F8＇ | $888^{\circ}$ | 098． | 107 | 69：99 | Vig | 869 |  | 6809 6 r | 96才．6z | 69＊＊${ }^{\text {c }}$ |  | $0 \overline{0}$ ． |
|  | 9L0 | ＇M＇N | M．${ }^{\circ} \mathrm{M}$ | －＊upe | 62. | ¢8． | $60^{\circ}$ | ${ }^{9} 6$. | てgc． |  |  | c9． |  | c． 99 | Los | 069 | 9\％0¢ 6 c |  | 1上゙6\％ | ${ }^{\text {cig }} 6$ | 6 L |
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| - － 2 － | － | －ule |  |  | ${ }^{08}{ }^{\circ}$ | 06 | $69^{-}$ | 12 | cis． | r．Lb |  |  | 00：29 |  | 8．92 | 9 | ©909 | 69 | 809＇6z | 679＊6u | LI |
| ¢ррри |  | －${ }^{\text {N }}$ |  | ${ }_{-100}$ | $04^{\circ}$ | 49. |  | ${ }_{\text {c }}{ }^{\text {E }}$ | ${ }^{8.82^{\circ}}$ | ${ }^{968}$ |  |  | \％ic9 | S．99 | T02 | ¢ 89 | I189＇6a | 9196\％ | LE9＇6z | 819＇63 | 9 L |
| smo | － | ． | －${ }^{\text {S }}$－${ }^{\text {S }}$ | －upeo | － |  |  | [98 | 68 |  |  |  |  | 099 | $0 \div 2$ | ${ }_{C} \mathrm{C} \cdot 69$ | \％9V的6 | 0gs | L09 ${ }^{\circ} 6 \mathrm{Z}$ | 89 | br |
| 叫 1 ¢ |  |  | ＇TN＂ | ${ }^{\mathrm{N}} \mathrm{Kq}$－${ }^{\text {T }}$ | 62. | 58. | ぃ． | W | 60＊ | s98． |  |  | －09 | 8 lc | \％ 79 | 8－ 9 | 997L |  |  | ${ }_{\text {ELS }}$ | ${ }_{\text {ci }}$ |
|  |  | －wip | $\bigcirc{ }^{-5}$ | － M －${ }^{\text {N }}$ | 49. | $88^{\circ}$ | ${ }^{09}$ | $6^{9}{ }^{\circ}$ | O18． | ${ }_{6 \times 8} 8$ | 618 | \％ | \％9．L9 | ${ }_{8}$ | 8＇19 | Litg | 9188.6 | 88 | ${ }^{6} 68^{\prime} 6{ }^{\text {c }}$ |  | I |
|  |  | － | $1 \cdot \mathrm{~S} \mathrm{~S}_{4}$ | ${ }^{\text {Nrued }}$ |  | ${ }_{18}{ }^{68}$ | $\underline{L}$ | ${ }^{\circ}$ | 66 | ${ }_{178}^{68 .}$ |  |  |  | 8．${ }^{\text {c．} 9}$ | ， | $9 \cdot 89$ | 19996\％ | ${ }^{69 \%} 6 \mathrm{z}$ | 989 ${ }^{\circ} 6$ \％ | g9S | 15 |
| －aug cipa ppprotu |  | －u｜c） |  | －ule | IL | 18. | ${ }_{\text {I9 }}$ | ${ }^{1}$ | 90\％ | ${ }_{\sim}^{116^{\circ}}$ | LS9 | LCg |  | ${ }^{\text {c }}$ | I 9. | L | †\％19 ${ }^{\circ}$ | cg＇ 6 O | c09＇6z |  | 01 |
| u！d ：Sz |  | \％ |  | －uyes | 交 | ¢ 8 | 09. | 19. | $2 \pi \sim$ ． | $980^{\circ}$ | 188 | 以Lて | LJ＇99 | $\checkmark 6$ | L＇99 |  |  |  | L96\％${ }^{\text {c }}$ | L80 | ${ }_{8}^{6}$ |
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| we w |  |  |  |  | zL． | $98^{\circ}$ | ${ }^{5} 9^{\circ}$ | $8{ }^{\circ}$ | 89\％ | 98\％ | $88 \%$ | \％ 20 | t9＇ts | ［＇Eb | $L \cdot 99$ | $8 \cdot 6$ | L099．6 | L89＇60 | 6096 | 985 | 9 |
| $\cdot 5 \mathrm{~s}$ | Og\％\％ | －uyg | ${ }_{S} \mathrm{~S} \mathrm{Sq} \cdot \mathrm{G}$ | ${ }^{-} \mathrm{Sq} \cdot \mathrm{T}$ | ${ }_{06}{ }^{\text {8．}}$ | ${ }_{86}{ }^{81}$ | ${ }_{\text {IS }} \mathrm{S}^{\circ}$ | 18 | 6E8 |  |  |  |  |  | Ə＇19 | 6.99 | 0188 | 9156 | ¢ $\ddagger$ \％ 6 \％ | 9\％\％ | 9 |
|  | 01\％ | － | ${ }^{-1} \cdot{ }^{\text {S }}$ S | $\square_{\text {ulf }}$ | 48 | ${ }_{6} 0^{\circ}$ | ${ }_{2}$ | ${ }_{28}{ }^{\circ}$ | cl |  |  |  |  |  | 8.09 | 9 |  |  |  |  | $\checkmark$ |
|  | 10 | －uıre | － M － 4 |  | 58. | $9_{8}$ | 88 | ${ }_{\sim}^{6} 6^{\circ}$ | cqs | 9LE： | เて¢ 9 | $98{ }^{\circ}$ | $6{ }^{\circ} 09$ | I＇99 | \％ 99 | 0＇t9 |  |  |  |  | ${ }_{\sim}^{8}$ |
|  |  | －${ }^{1}$ |  | ＇3 | $06^{\circ}$ | 06. | $18^{\circ}$ | $88^{\circ}$ | ${ }^{96}{ }^{\text {g }}$ | 989 | 109 | 6 c | 98.99 | 0 |  | 00.99 |  | $68 ¢^{\circ} 6 \mathfrak{O}$ | ${ }_{068}$ | $\sim_{66 \%}$ | ${ }_{1}$ |
|  | $\begin{array}{\|c} \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}$ |  | －pu！M |  | 1 | wifl jor $K$ | WCd | $\mathrm{n}_{\mathrm{H}}{ }^{2}$ |  |  | но！ |  |  | 1 | T |  |  |  |  |  | － $\mathrm{rag}^{\text {a }}$ |


[^0]:    * Thy arthor does not state in which groin the tumour was siluated:-EDs.

[^1]:    * There is an evident crror here. Oxygen and Sulphuretted IIydrogen cannot co-exist without a decomposition of the latter by the former,-ED.

