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# MEDCAL AND P酲SICAL SCIENCE. 

Vor. III.]

Art, XVH.-ON THE state IN WHICH THE MERCURY EXIS'S IN THE IHYD. C. CRETA. AND PLL. HYDRARC.

> Br W. B. N:col, Esq., M.T.M.C.S.

Read before the 'T. M. C. Soniety, January 6, 1e:sf.
The great uncertainty prevailing with respect to the state in which the metal exists in the mechanical preparations of mercury, and the diffenly of amiving at any satisfactory conclusions on the subject, must, I shond imagine, have struck every person whose attention has been at all directed to the inquiry.

On referting to the works of different writers on materia medica, we meet with the most contradictory statements; nor are we nore fortunate in obtaining a clearer insight into the matter, when we review the results of experiments made fir the purpose of ascertaing this point, thr experimenters having too often arrived at opposite conchasions. Neither does physiology, in this instance, lend us any assistance, but on the contrary, rather tends to make the matter more obscure ; for athongh we find that in most cases fluid mercury may be taken in repeated doses without producing the peculiar physiological action which wsually follows the frequent exhibition of its oxides or salts, yet it has occasionally cansed this effect.
It is, however, admitted by most authors, that fluid mercury is usually destitute of all action upon the system, and that it may be taken without inconvenience, more than arises from its mechanical properties. Many are also of opinion that it is equally inert when minutely divided, while some, on the other hand, regard it in this state as a most energetic substance. The former consider the mercury in the apparently mechanical preparations as oxidated by the processes employed in making them; the later maintain that the metal is merely finely divided. Although writers on materia medica and pharmacy are thus divided in their opinions, chemists are generally agreed in considering these preparations as containing chiefly the finely divided metal.
It has always appeared to me that if the activity of these preparations does not depend upon their containing finely divided mercury, but upon the presence of its oxide, the methods of making then are most faulty and objectionable. It would surely be better to mix the previously prepared oxde-if it alone be the active con-
stituent-with the other ingredlents, as was done in preparing the ointment of the grey oxide. This method of mixing blue pill and mercury with chalk, has been proposed and followed by a few persons in England of late years, wih what success I cannot say, but the ointment is well hnown to have failed, and is now scarcely ever used.

From these considerations I was led to make a few experiments upon the mereury with chalk and blue pill, more for my own satisfaction than with the hope of throwing any new light upon a subject which has en. gaged the attention of many more able investigators than myself. I did not think it worth while to include the mercurial ointinent in my researches, as I consider it has been satisfactorily proved that in this preparation neanty all the metal is in a state of minute division, a small portion only being oxidated. That this oxidized portion is not the only active part of the ointment I think I shall be able to prove hereafter. At present I will proceed to lay before the Socicty the results of my experiments, and the deductions I have drawn from them.

The samples of blue pill siere made the subject of investigation. They were all treated sucressively with water at $170^{\circ}$ or $180^{\circ}$, rectified spirit and ether; the mixed liquors acidulated with acetic acid, were not precipitated by sulphuretted hydrogen. The residues were treated with diluted acetic acid at $150^{\circ}$; the liquors filtered and treated with the same re-agent gave no precipitate.
One of the specimens of blue pill I have had in my possession for some years, and I have always found it very active. The other specimens were recently obtained from respectable druggists in this town. All these are, I believe, of English manufacture.

The same number of samples of hydrarg. c. cretâ., were next submitted to investigation; they were obtained from druggists in this city who had procured them from Ergland.

Sixty-four grains of No. 1, (about 2 or 3 years old) were treated with successive portions of warm diluted acetic acil, the mixed liquors filtered and precipitated with hydrociblore acid; this precipitate, after being carefolly washed and dried, weighed 2.5 grs., which give 2.2 grs as the quantity of sub-oxide (protoxide of the
pharmacopeias.) The filtered liquorgave a presipitate of sulphuret of mercury wilh sulphuretted hydrogen, the weight of which was not ascertained.

Sixty-four grains of No. 2, (obtained from England last November) treated in the same manner as No. 1, gave 3.2 grs. of calomel, the quantity of sub-oxide estimated from which is 2.8 grs . The fluid filtered after precipitation and separation of calomel gave with sulphuretted hydrogen gas 0.75 gr . of sulphuret, indicating 0.697 gr . of protoxide (peroxide of the pharmacopecias.)

Sixty-four grains of No. 3, ( 3 or 4 years old) treated as Nos. 1 and 2 , gave 5 grs . of calomel, calculating the sub-oxide, from this we have 4.4 grs . The filtered liquor gave a precipitate with sulphuretted hydrogen weighing 1.25 grs., the protoxide estimated from this quantity of sulphuret is 1.163 gre.

The presence of protoxide in mercury with chalk, is no doubt owing to the partial decomposition of the suboxide, which is partly resolved by keeping into protoxide and metallic mercury, as occurs with all this oxide met with in druggists' shops. If the protoxide he derived from this source, we may consider the .697 gr . of protoxide in No. 2, as indicating an original quantity of 1.367 grs . of sub-oxide, making the whole quantity of sub-oxide contained in 64 grs. of No. $2,4.177$ grs. In like manner we may estimate an original quantity of 2.27 grs. of sul-oxide as existing in No. 3, from the 1.163 grs . of protoxide, which added to the 4.4 grs. of sub-oxide calculated from the weight of calomel obrained, gives 6.67 grs . as the whole quantity of sub-oxide originally contained in 64 grs . of this sample.

The society will perceive from the resuits of these experimeits, that the mercury with chalk, usually considered the mildest of all the meremial pieparations, contained a large proportion of oxides of mercury, while the blue pill did not show any traces of the presence of an oxide of this metal. We cannot, I apprehend, arrive at any other conclusion on the sulject, than that the eflicacy of these preparations does not depend upon the existence of an oxide of mercury in them, otherwise the blue pill would he inert and the mercury with chalk a certain and active mercurial, the reverse of which we snow to be the case. It would also appear that in making these preparations, the presence of viscid saccharine substances far from facilitating the oxidation of mercury, as is I believe the general opinion, tends to prevent it aldhough they no doubt favour its extinction; consequently the Dublin College is wrong in ordering the addition of manna in making mercury with chatk, if they suppose its activity to depend upon the quantity of oxide formed, but correct if it be ordered merely with the view of favouring the extinction of the metal.

It is not my intention to review all that has heen written on this subject, nor to refer to all the experiments performed at different times and by various parties in order to bring this long-debated question to a satisfactory termination, as it would afford matter sufficient for several papers, but I will briefly notice the opinious of two recent writers, Dr. Christison and Dr. Thomson. The former, after stating that he has always found about $1-50$ th of the mercury of the ointment in the state of oxide, writes, "It is far from improbable that the small proportion of oxide, either present at first or formed during the process of rubbing the ointment into the skin, is the only active part of the mercury." If such be the case, why is not the ointment of grey oxide as effectual as the mercurial ointment? Again, Dr. Christisom writes: " In regard to the pillula hydrargri as well as the hydrargyrum cum cretâ, and hydrargyrum cum magnesia, the inquiries hitherto made rather tend to show that they do not contain any oxide. But the reverse may be presumed both from the mode of preparing them being somewhat similar to what is practised in making the ointment; and likewise from their activity as mercurials, compared with the ineriness of mercury when unequivocally in the metallic state only." If, as Dr. Christison seems to consider, the oxide be the active constituent of the ointment, it must be a very energetic substance, since this ointment, administered internally, is, perhaps, the most powerfil means we possess of prolucing mercurialism. According to some French physicians, 2 grs. of the ointment given every 2 or 3 hours, speedily produce salivation, frequently in the space of 24 hours. It is difficult for any but a homeopathist to believe that such certain and rapid eflects can result from doses containing only the fiftieth of a grain of oxide, supposing the rest of the mercury inert. How does it happen that the black oxide of the pharmaco. peias, is not equally energetic in its action? and how is it that the mercury with chalk is less active than the blue pill?

On the subject of the actions and uses of mercury, Dr. Christison says: "It is a gencral law in physiology -to which it would be strange were mercury the sole exception,--that metals do not act as such, but must be first converted into oxides or salts." I confess it would not appear strange to me if mercury were, as I incline to helieve it is, an exception, since this metal differs widely from all others in many particulars; no other known metal is thid at ordinary temperatures, and surrounded with it: own vapour; nor is there, I imagine, any other which is capable of being so minutely divided;-witness for instance, the extreme fineness and minuteness of division of which it is susceptible, when a solution of
one of its salts is reduced by solution of protochloride of tin: the precipitate caused by this re-agent is so pulveruient that it requires some hours to subside.

In proof of the non-action of metallic mereury when finely divided, Dr. Christion mentions the results of some experiments upon animals by Dr. Samuel Wright. (Unpublished Prize Thesis-Edinburgh: 1840.) This gentleman administered finely divided metallic mereury, prepared by decomposing calonel with muriate of tin and washed with acetic acid, for a length of time to animals without the specific effects of mercury beine produced. Dr. Chaistison does not mention what animals were made the subjects of Dr. Wright's experiments. If the experiments were made upon horses, eattle, or sheep, and mercurialism was not produced by foll and repeated doses, I should be inclined to admit that metallic mereury even when minutely divided has no action upon the system, as these animals are easily aftected even by comparatively small doses of the pre. parations of this metal. But if they were made upon dings, I cannot consider them conclusive, as these animals reject medicinal and poisonous substances so readily from the stomach by vomiting, that no experiments unon them are decisive, unless the asophagus is tied, which could not have been done in the present instauce. I was informed some years since by a medical man, that he had given as much as a scruple of corrosive sublimate to a dog without any eflect; there can be no doult that it was speedily rejected by vomiting. Conclusions as to the actions of medicinal agents deduced from experiments upon the lower animals are often, for many reasons, far from satisfaciory.

Dr. Thomson, in his " Materia Medica and Therapentice," atter stating that mercury, when long triturated, is supposed by some to become oxidized, and by others to be only minutely divided, and that he is almost convinced, from the experiments of Mr. Bell, that the latter is the eorrect view of the ease, adds these words: "that it is not merely mechanically divided, is rendered probabie from its solubility in hydrochloric arid, which metallic mercury is not." Now its solubility in this acin, allowing that it is so, alone proves that it is not in the state of protoxide (sub-oxide) as Di. Thomson appears to suspect. "One proof," Dr. Thomson continues, "of its being an oxide, is ite striking resemblance to the gry oxide," made by decomposing calomel with potasa or lime. In answer to this it may be said that the powder formed by triturating mercury resembles in appearance the precipitate of finely divided metallic. mercury, made by decomposing a salt of this metal with protochloide of tin, fully as much as it docs the grey oxide, while in chemical properties it has greater analogy
to the former than to the latter. Respecting its solubility in hydrochloric acid, I find that after removing all the chalk, sub-oxite and protexide from the mercury with chalk by means of acevic acid, and the greater part of the liquorice and conserve of roses from the blue pill with boiling water and with rectified spinit, the residues when treated with strong hytrochloric acid, either cold or boiling, are partially and slowly acted upon, the acid when diluted and filtered, giving a precipitate of sulphuret of mercury when sulphuretted hydrogen gas is transmitted through it. On treating the residue again with hydrochloric acid, a further guantity of mercury is taken up as indicated by the same test. It is not impossible that by repeatedly acting upon the residue with this acid, the whole of the mercury, excepting what is mequirocally in the flud state, (he globules heing recognisable either by the mailed sight or by means of a lens, ) would be dissolved. The fact of this residuc being partly soluble in hydrochloric acid seems to prove either that mercury, when finely divided, is partially and gradually acted upon by this agent, or that the metal in these preparations is partly in the state of an unknown oxide. I have not as yet ascertained whether metallic mercary, as ohtained by preceipitation with muriate of tib when kept for some time in contact with strong hydrochlorice acid and occasionally agitated, is perfectly insoluhle.

In order to asectain whether mercury, when administered in the metallic state, is without any action upon the system, 1 would recommend the adoption of the following plan:-wash the precipitate formed by muriate of tin with wam acetic acid, and test the washings for mercury, so as to ensure tho revidue containing no sub-oxide or protoxide, then make it into pills with very soft conserve of roses, and with as litte manipulation as possible. Administer these pills to patient: labouring umber chronic diseases reguiring the use of mercury, but where the loss of a few days in the treatment, supposing the pills to be inert, would be of no material consequence. The patients selected should be such as from previous experience we know can be affected ly mereury without much dificuky. Pills made somewhat according to this method have, I think, on one oceasion, been tried in England and found eflectual ; and an ointment, made in a similar manner, has been used and recommended, as answering a better purpose that the common mercurial ointment, by an Italian physician, Orosi. I am not certain, however, that in these cases sufficient care was taken to ensure the perfect freedom of the precipitated mercury from all traces: of an oxide or salt of the metal.
Toronto. December 2,1846,

## Art. XVIII-ON THE Yellow sediment on tue hargin of pools after ran.

To the Editor of the British American Jourral.
Very many of your readers have, no doubt, olsewred the yellow sediment, commonly called suthur, which is occasionally visible on the margin of pools after rain. It is remarkable that it is never seen except in the month of June. Probably the sulphurots ar nitrous smell which is sometimes developed in rain, and whic: M. Liebig has provel to be occasioned by the real presence of nitric acid, may have had something to do with the popular notion, which is. however, sufficiently disproved by the circumstance mentioned above, that the phenomenon is confined to the month of June. From the absence of any notice of it among the Metcorological Records of the very valuable Ammal Reports of the Regents of the University of the state of New York made to the Legislature, it may be inferred that it is not observed in that state. It has been suggested that the substance is the pollen of plants, then in flower, and carried into the air by ascending currents. It appears deserving of close observation, and I therefore beg to call the attention of your readers to it. I subjoin a list of the dates on which it has been observed at Toronto.

| 1840................ | 26th June |
| :---: | :---: |
| 1841 ............ | ..not observed |
| 1842.............. | ..30th June |
| 1843.............. | ..24th June |
| 1844. | 17th June |
| 1845. | .14th and 15ih June |
| 1846 | .1st and 15th June |
| 1847.............. | 19, 21 , and 22 June |
|  | J. H. L. |
| to, 5th July, 184\%. |  |

Toronto, 5th July, 1847.

## Art. XIX.--METEOROLOGICAL OBSERVATIONS AT

 NICOLET.By W. Marsden, Esq., M. D.
In the April number of your Journal, you say, " yet communications on physical subjects are still a desideratum; and we would earnestly call on our friends to record, in its pages, those matters of physical interest which must, when collectively considered, constitute a most important means of furthering our acquaintance with the physical development and resources of this important section of the British Empire." In furtherance then of your desire on this head, and with a view in some measure to supply that desideratum, I herewith enclose you a Metcorological Table, for the village of Nicolet, for nine years past, or from 1838 to 1846, both years inclusive, compiled from tables kept
by the Rer. Francois Desauniers, one of the professors of Nicolet Cullege.

These tables contain only two daily observations. one at $6 \mathrm{a} . \mathrm{m}$., and the other at $3 \mathrm{p} . \mathrm{m}$.; whereas those for Montreal contain the results of three observations, viz. : at 7 a. m., $3 \mathrm{p} . \mathrm{m}$. , and $10 \mathrm{p} . \mathrm{m}$. ; but they have been kept with extreme regularity and precision. Flie minimum temperature, as we are aware, is before, at, or about sum-rise, and the experience of the Rer. Genteman to whom I an indebted, proves that the lowest average is about $6 \mathrm{a} . \mathrm{m}$., on which aecount he has adopted that hour for morning observations, and the naximum about $3 \mathrm{p} . \mathrm{m}$.

The part of Nicolet whence these observations have been made, is situated about two miles south-east of the castern outlet of the River Nicolet, near the debouche of Lake St. Peter, and about 10 miles $\mathrm{S} . \mathrm{S}$. West of Three Rivers, in the midst of a champaign country, to which canse the slight variation of temperature as compared with Quebec and Montreal is pro. bably attributabic.
The latitude 1 have set down $46^{\circ} 14^{\prime \prime}$ N., and is, I doubt not, correct, being the result of eighty different observations of my reverend friend; and the longitude $72^{\circ} 39^{\prime \prime} \mathrm{W}$., I think is very nearly correct.

My attention has been more particularly called to this object, from having perused with much satisfaction, Mr. Justice McCord's interesting communication in the May number of your Journal for 1845; together with its accompanying table of the mean temperature of Quebec. The remarks of that gentleman on this sub. ject are so pertinent, that I will again refer such of your readers to them as take any interest in the matter, merely remarking, that Mr. Desauniers' tables embody all Mr. McCord's suggestions, having been kept most methodically and regularly throughout the intervening years from 1838 to 1846 , the ohservations being made daily, and at fixed hours, and the means of the months and years being summed up; added to which, the instruments and philosophical apparatus used by him are generally of the very best description. It is to be regretted, however, that the barometer apparatus belonging to the Institution is very defective and imperfect, whereby we lose much raluable iniormation.

I have already alluded to the comparatively slight variation of temperature here, and a reference to the table of the means of nine years, will show a variation of only $2^{\circ} 23^{\prime}$;-the greatest mean in 1846 being $42^{\circ} 61$, and the smallest in 1844 being $40^{\circ} 38^{\prime}$, whereas, Mr. Justice McCord's tables, before alluded to, show a variation on ten years of $5^{\circ} 08$, and the
temperature as compared with Nicolet, is proportionally lower ; the mean of the former on nine years heing $41^{\circ} 43^{\prime}$, and that of the latter on ten years $39^{\circ}$ $30^{\prime}$ and the maximum and mininum temperature of Quebec $+92^{\circ}$ and -25: whilst Nicolet shows $+87^{\circ}$ and -27.

I have added to the table of the means, one containing some general observations on the wind, weather,
\&c., which may prove useful as well as interesting ; such as the first snow of the season, and the closing and opening of Lake St. Peter, which, as it forms the ice bound key to the free navigation of the river St. Lawrence from Montreal to Quebec, nust be a subjeet of interest; as also the reinvigorating and renovating advent of vernal blossom.


Art. XX.-I. Geological Survey of Canada-Rrport of Progress for the Years 1845-6: and
II. Geological Survey of Canada-Report of Progress for the Years 184.6-7. By W. E. Lugan, Esquire, Provincial Geologist.
While heartily congratulating the Canadian public and the scientific world at large on the appearance of the two small but valuable works, (containing little more than 190 pages of octavo letter-press), the titles of which form the heading of this article, we cannot resist a feeling of utter mortification, while comparing the pigmy as well as tardy efforts made by this gigantic scion of the greatest empire in the world-in behalf of so important a national object as that which they em-brace-with what has been so well and speedily accomplished by the various American States in immediate contact with our wide-extended borders.

Let the reader for a moment carry his eye along the imposing line of noble inland seas, and majestic connecting rivers, which mark our southern frontier. through an extent of upwards of 30 degrees of longitude, or more than 1500 miles, from the Gulf of St. Lawrence on the East, to the confines of the long-disputed Oregon Territory on the West, and he will find no less than eight of the American States, besides embryo territories in the Far West, come under his observation in progressive succession, namely, Maine, New Hampshire, Vermont, New York, Pennsylvania, Ohio, Michigan, and Wisconsin. Without stopping to enquire what has been effected by the minor States in hehalf of a thorough geological and topographical survey of their interior, let us for a moment refer to the forir leading States, New York, Pennsylvanit, Ohio, and Michigan, and we shall witness results that will both surprise and mortify us.

As, for instance, by an act of the Legislature of $\mathcal{N e w}$ York in 1S36, the Governor was authorised to employ a suitable number of competent persons to make an accurate and complete geological survey of the State, accompanied with proper maps and diagrams; and to furnish a full and scientific description of the rocks, soils, and minerals, as well as of the Botanical and Zoological productions, together with specimens of the same; and further, that one set of such maps, diagrams, and specimens should be deposited in the State Library, and a similar set in such of the literary institutions of the State, as the Secretary of State should direct; and that the sum of $\$ 26,000$ per annum should be appropriated, during four years, to defray the expenses incurred. In addition to which, the eminent geologists, Messrs. Hall and Emmons, in the year 1839, suggested the erection of a museum for the proper deposition and arrangement
of all specimens in the different branches of natural history ;-the zoological specimens to be preserved in glass cases; the fishes, and several of the lower classes of animals in spirits ; the botanical specimens in bound volumes, lettered according to arrangement; and the meteorological and geolngical specimens, (which it was supposed would exceed 4000 in number, ) including fossils, to be arranged in two sets, one conformable to the existing state of science, and the other geographically, with separate divisions appropriated to each county. And, for the completion of this truly noble undertaking was allowed an establishment of four principal geolegists, with assistants, (whose labours were limited to an equal number of districts, into which the State was portioned off for that particular purpose), a botanist, a zoologist, a mineralogist and chemist, and, subsequently, a palaontologist, devoted solely to the study of organic remains.*

The geological survey of Pennsylvania may be described in fewer words, as having also commenced in 1S36, under Professor Rogerv, as principal geologist, with a corps of four geological assistants, one chemical assistant, and four sub-assistants.
The geolngical survey of Ohin may be equally briefly noticed, as having commenced in 1537, under Professor Mather as principal, with six assistants-the first assistant acting as paloontologist, another as zoologist, and a third as topographer.
The geological survey of the then infunt State of Michigan commenced in 1837, (with $\$ 12,000$ per annum alloted for four years for its completion), under the lamented Dr. Houghton, as State geologis, with instructions somewhat similar to those for New York, and eomsisted of four departments, viz., 1st, The geological and mineralogical; 2d, the zoological; 3d, the botanical; and 4th, the topographical:-the first comprising the State geologist and three chief assistants, viz., a zoologist, a botanist, and a topographer, and four sub-assistants, two of whom were allotted to the zoological department. And specimens were required to be collected and preserved as follows;-the State to be supplied with

[^0]single grool spccimens; and if more could be foand, sixteen more to be, if posible, procured, for distibution among the State University and its branches. And by an act of the Legislature in 1S40, the State geologist was further directed to cause to be constructed a map of the Slate, and of the several comaies therem, on a scale of four miles to an inch, and the sum of 2000 was alofted towards defraying the expense; with joint instructions to the State geologist, Auditor general, and state treasurer, to adopt such measures for their general sale and uistribution as to them might seem expedient.

Let us now compare any one of these liheral pariotir arrangements with what has heen effected in behatf of the wide-spreading British Colony lying in conact with, and far outlanking the whole of these States. We blush to record the humiliating fart, hut stern justice demands the avowal; neither more nor less than the tardy and reluctant appointinent of a Provincial geologist, so late as the year 1842 , with the magnificent permanent aid of one assistant, and the still more tardy addition of a mineralogist and chemist!- What, the efore, do we find to have been the inevitable natural consequences? As yet an almost total ignorance of our mineral and other economic resources, beyond what has been gleaned from private rescerches alorg the immediate borders of our primespal lakes and rivers; and that even in the long-neglected great mineral region of Lake Superior, the Provincial goologist, instead of having been sent forward as the public precursor and promoter of individual enterprise, seemed rather to have been reluctantly employed to bring up the straggling rear, and see that Government was not likely to be taken some paltry advantage of.

Compared with this truly miserable and undignified Provincial arrangement, what might we not have justly expected? Verily, that we should, at the least, have emulated, in generous scientific rivalship, the highly creditable example of New York or Ohio: nay, that a geological stafl of double the strength of either of these States might not have been deemed ton extravagant an allotment for at once laying open the varied resources of these two Provinces,-more than 5-6ths of which are yet a perfect terra incognita. Instead of which, the noblest colonial jewel in the British Crown is content to rejoice in the ability of three soltary individuals to undertake the scientific examination of a triffing area of about

[^1]350 to 400,000 niles, of which the greater part is spread over a wild and dillicult monntain region, as yet unexplored by the foot of the white man, and therefore requirine the protracted labours of a whole lifetime! whereas a corps of scientific individuals, such as that of New York or Ohio, might have completed the noble work in the course of seven or eight years.

Dropping the language of irony, and appealing in sober sadness to that of reason and truth, we would say, that such are the impressions upon our mind, that we conceive that wo do justice to this vast and important colony, a distinet genherical eorpsshould be appointed to cach Province with the Provinema! geologist as their general head, and who might conjointly occupy the position of Procincial sureyor general;" and that these iwo branches should consist of at least one deputy Provincial geologist and two assistants, (one having charge of the botanical and the other of the zoological department), a topographer and draftman, and a mincralugist and chemist, in conrexion with paleontologr, or the study of organic remains; and we at all events trust that it will not be long before our Government will be sensible of the actual necessity of so far redeeming our natinnal credit, by the adoption of a far more libern! arrangement than that which we have folt it our duty to condemn and deplore.

While expressing our frank opinion of what ought long ere this to have been the case, it is far from our wish or intention to underrate the highly important and valuable, though isolated, labours of the two meritorious and indefatigable individuals to whom we are gratefully indebted for the interesting Reports now lying before us.

By a reference to the numbers of the British Ame. rican Journal for August 1845 and July 1846, notices have been taken of the commencing labours of our highly re..pected Provincial geologist and his zealous assistant, and of the progress they had by that time made in their vast field of observation; ard it was further remarked that "it was but seldom

[^2]that the cultivators of the arts and sciences had the satisfaction of seeing a work of this description underiaken and favoured by the Legislature here, and at the same time prosecuted with zeal and talents proportioned to its importance and magnitude; that the encouragement which the Legislature had bestowed upon the work was deserving of all praise ; and that, apart from the immediate interest and advantage which the colony has in the accomplishment of it, it evinced a just appreciation of the spirit which now characterises all enlightened communities, adding its contribution to the grand stock of information in a department in which the enterprise of individuals requires to be facilitated and sustained by every public means, in order to secure a suecessful prosecution of such works. And further, that there is no doubt but that such works will be received with great interest in Great Britain and other countries, convering, as they will be confidently believed to do, accurate views and details of the physical history of a very extensive and hitherto little known portion of North America. So much, even upon the principle of honow, every country is bound to undertake and carry out; but it also happens that its own interest is always concerned in the result. Its own resources are disclosed, and consequently its wealth and general prosperity are directly promoted; and though it should be found that these resources do not consist in a prodigality of the precious metals, and that there is no hope that

> - Here the molten silver Runs out like cream on cakes of gild; Do grow like strawberries; And rubics
yet the very 'saving' which authentic information upon the subject must occasion, by preventing fruitless searches and idle speculation, more than justifies the expense of a -Provincial survey, were that expenditure ten times greater than what the Government have undertaken to provide for. There are few States of the Union, probably none, in which many thousands of pounds have not been sacrificed in speculations for minerals, and which a geological report, constructed upon accurate observation of the district, might have prevented. The disappointment and ruinous consequences of these speculations, render it matter of prudence to guard against them in Canada, where few will be found hardy enough to adventure in them, when authentic information on the subject shall have previously demonstrated the impossibility of success.* If the revenues of the Province, and of indivi-

[^3]duals are thereby saved from the misapplication which the history of other parts of America shows to have been not unfrequent, the report of the Provincial geologist, when he shall have brought his ohservations to a close, we regard as an invaluable safeguard of the public: wealth and of private property. In point of fact, however, the mineral resources of the country are such as cannot fail amply to repay the labour of investigation."

Now, this may have been all very well at the time, as an encouraging begiming, and as conveying the grateful expression of thanks for unexpected favours received; but we do now confess, after all, that when we look enquiringly round, and make certain odious and mortifying comparisons, and find how litte pregress has yet been (unavoidably) made in the ample and almost boundless field before us, sheenly in consequence of the utter insufficiency of means, we are somewhat disposed to think that a great deal too much credit has been given our Legislature and our Government.Having now, however, made these observations, we propose to invite our readers to the more agreeable task of accompanying us in at least two interesting geological rambles-the one amid the wild, unexplored, elevated regions bordering on the lake-spangled sources of the mighty Ottawa, until we arrive at the solitary banks of Lake Temiscamang, in company with Mr. Logan, and his temporary "aide," Mr. M•Naughtan, an intelligent Provinial survejor, very sagaciously half-borrowed from the Commissioner of Crown Lands; * and the other, with his zealous assistant geologist, Mr. Murray, amid the still more elevated, mountainous, peninsular tract, lying between the Bay of Chaleur and the Gulf of St. Lawrence, some points of which attain an altitude of near 3800 feet above the level of the sea-from which two short trips some tolerable idea may be formed of the arduous bodily toils, and often imminent perils attending the weary wanderings of the scientific geologist's progress, altogether independent of the great mental and constitutional wear and tear to
can exist; and the search after several of the precious metals: nay, even the long reported and recently partially confirmed abun. dance of copper in the regions bordering on Lakes Superior and Huron, may not, on thorough ecientific investigation, prove so ex. uberant as the golden hopes of our spoculatons would Iead us to expect. Tirere is an old and well-tested adatge, which says, "All is not gold that glitters."

* The bighly commendable spirit of cennomy which reigns throughout our public departments is beatatifully illustrated in this arrangement; by which it would apptar that Mr. M•Naughten's services-not his unfortunate body-were bisected, and one.half carried to the debit of the crucl commissioner of crown lands, and the other to that of the stony hearted Provincial geologist! Was the jingment of Solomon, or the pound of flest of Shylock, at all to be compared with this? Risum teneatis;-sed, verbun sati; See p. 93 .
which he is subjected, while retucing his daily labours to accurate calculation and "projection," by the hep of the often miserably sheltered lonely midnght lamp.

Mr. Logan commences his able report for 1345-6 by observing-
"In reporting to the Government on the Pragress mate jat the year 1843, a short med vere general sketch wat given of some of the mann seolugital itatures of a considerabie part of the frovince, as connected with the plysical strusture of the bordering States of the Anerican Unima oi the one fand, and heo Sister British Colonies, on the rether. In this deseription it was con. sidered convenient to divide the sulject into two parts; ani drawing a line in continuation of the Undsom River and Lake Champlain Vallers, to the viginty of (buture, to censider the area to the west oi it separately from that matire suth nif the St. Lawrence to the cast, in concequatec of important diferences in

 primary rocks, and evataining emat mensures in the center ; bui in neilher case has it yes isen fomad that the pruftahise potion of these measires comes within the imits of the Province.
"The conditions in winch these two areas difter are the general quicsecmee and confomable sequence of the tormations of the Western division; and line riolent contontions, and uncomiommber relations prevaling among those of the eastern ; and as the Survey procects, the poprety and convenience of this dis:ion, for the purpose both of investigation and description, appear to me to be more fully confirmed.
"The castern area, comprising all that part of the Province which lies to the castward of he dwisional hime assumed, and to the south of the St. lawrence, including, lows ver, the Istand of Antionsti, covers a space of abont 40,007 squme miles; the western -extending to the limits of the Provinee in en upposite direction, and bounded on the morth by a line skirtiog the st. Lawrenee, the Ottawa, the Mittawn, Lake Nipissing, and the Fretech River to Lake Hurm, and thence almy the northern shore of this Leke to Nalt Ste. Haric on Lake Superior-may spread over 50,0100 sguare miles. Tuese divisions, however, do not exhnust the Erovinee. There still remains what moy be termed Nothern Canada, estionding from the Brinisi lmit on Lake Superior to Labbador, and lying between the turthern boundary of the cast and west divisions, and the height of land scpurating the Lludson Bay waters from thoze of the St. Lawtuce. 'Jhis portion, nearty three times as large as theother parts :thecther, may comprehend 55 2!, (i00 square miles.
"In the geohorical exumination of extensive aroas nothing is more essential for the economy of time i: working ont details than to obtain, as early as possible in the investigation, some approsinate view, however defective, of the promincot relations of ther general features, to be subsequently perfected as eircumstances may permit. But over a surface so widety spread out as that of Canada, so muen of which is still covered by primeval forest, even the tunst partial reconnoissance must accessar:ly occupy much time. In the western divicion, the section ex. amined across the comenty from thke Hurrat to Lake Eric by Mr. Aluray, in the year list3, and reported on by him, gives the sequence of the formations, in their order of stpposition, and in some detail their subodinate mine cal masses capable of comumic application. His report supplios a partial huowiedre of the boundaries of those formatinis for some distance un each side of the line of exploration : but their geucralgeegraphical distribution throaghout the district, though raguely hiown, is stit to be followed out and determined with precision. In the castern division the sequence of the rocks, as displayed in the Gaspe D.strict-where the coast secionn affords the finhest and bes: extabition of them.-and their general relation to the coal deposit of New Brunswick, have been ascertainsd and pointed out, Therr range has bern partially traced, but the distuibed condition of the strata will maturally render the complete examimation of the district diffealt and tedions. In continuation of the previous season's labors in this divisin, the time of my Assistant. Mr. Murray. has becn engaged duriug the past summer, and i have now the honour of transinitheng to Yuar Excullency his Report of the progress effected.
"A section having thas been made acters the wersern division, and annther acros the enstern, shewing the nature of the depasits that are tu be sought for in each; it appeared to ne expedient that mathuld be made across the nothierin country, for the purp se of asertainuy some of the prominent features which might charateteise it. This great northern area is drained by many considerable rivers. Of hese the Oltawa atd the Sugucnay are the ingert. The Saguenay is placed more noaly in the middie betwern the extremes of the arta, bat several consuderations induced me to sedect the Otawa for the line of cxploration. The Otawa is the larger river of the two. yieding in magnitude only to the st. Latwrace itseff, and it therefore ;romised greater jacilities of mavigation in remote parts. It is more exicusively connceted wh the commerce of the country, and while its greaterproximity so me stateng point, and the stcamers plying on the lower part of it, would save tine, a supply of provisums, and Indians cunld bo wore radity procurcd, and mere easty transponted. 1 was imbenced atso by the fecting that should it beemene necessary for me, as remod probate, wha view to geolegical results, to delineme toporraphealify any pat berond the poine in which the river bad buen previously serverch, either for the parpuse of 'Turns'i'p :athements, or of Thmber allocations, the map that migh revit winld prove of greater ntility to the intersts of the Provine than the prodnee of a similar measurement on the saguanay.
"Perstaded that the topngraphical part of the investigation might be made a arailabie for the parposes of the Crown Land Deparment, I was induced to prop,se to the Hon. D. B. Papineau, the Comnissioner at the lead of it, to unito with me, as ath Assistant, at the joint expense of his Department and the Geolngical survey,* it Provnilal Surveyor, familiar with those parts of the river alreany mapped, who might have paid some attention to the rocks of the district, and whose acquantance with tocalities wond enable him to save much time in the geolorical branci of the investigation, by pointing out facts known to him, which it mirht otherwise requite mach search to discover; and a remanamication made by Mr. J. McNaughtan of Bytown, in 186 , thongh the Survegor Gencrat's Office, in reply to various questions circhlated on behalf of the (icolvgical Survey, and subscquent enmersations with lim, having made me aware that he comin le of essential service on the Otiawa, with the consent of the Commissinuer of Crown Lamd, it was arranged that he should accompany me.
"Supplying ourse'ves with provisions. we were enailed to forward them up the Ottawa first by stcan propellers to Bytown, and theuce by steamboats pying on the Lakes Chandere and Chats, with the assistance of waygon conveyance established at the portares, as far as the Falls of the Calumet, a distance of ahrout 175 miles. Four Indians were hired at Caughnawaga, and with the aid of the geatlemen in charge of the Hudson Bay Company's Posts, at Lachine and the Lake of the Twis Mountains, wi ubtuined a couple of cxecllent birch-bark canocs. I have to expess my obligatinns to Mr. HcTavish, in charge of the latter Post, who, in addition w ihe tronble he took with respect to our craft, matrially assisted the ohjects of my rescurch by preenting me with a colliction of specimens obtained from the imerior of the country on the higher part of the river in the vicinity of the Grand Lac, which are of value as shewing the mature of the rocks over a very considerable aren, not easily visited; and to the Governor, Sir George Simpison, 1 was indebted fro a gencral and very scrviecable fetter of recommendation to all the Agents in charge of the Company's Posts.
"Visiting seycral parts on both sides of the Ottawa for the examintation oi the strata, and making an cxcusion up the Rivierc ì la Graisse, and another a stiort distance up the Riviere du Nord, we procecded in our canocs as far as Grenville ; trum this we too's sdvantage of the steamer to Bytown, having on a pievious necasiun cxamined the imterval. Spending a few days there it was my good fortune to collst in my favour the aid of Mr. MeDermott, Provincial Sinveyor, who most obligingly undertaok to keey a regster of barometrical ubservations at stated periods of the day until my return, with a view to a more exact determina. tion of such heights as it might be expedient to measure in the iuterior of the country; and for this purpose one of my instra.
ments was left in his possession. In investigating the vicinity, Mr. McNaughtan guided me to sevcral points of goological interest in Nepean, and the assistance of Mr. Blasdell, and Mr. Hayworth enabled me to see others in Hull.
"Again taking to our canoce, we coasted along the north shore of the Chaudiere Lake to the Chats, where a tew days were spent in examining differcnt spots in Fitzroy, Torbolion, and Bristol Townships; and having had the misfortune to lose one of my thermometers, and break another, I was accommodated at the Chats with the han of an excellent pocket instrument, thrjugh the kindness of Dr. Dubord, wihout which much incunvenictiec would have heen experienced in barometrical measurements. Ascending the Chats Lake, we made an excursion up the Mis sissipni River to Packenham, where Mir. Dickson, the founder of this thriving village, who tides an interest in geolngical phenomena, was so obliging as to accompany me to sevelal spots in the vicinity, and to supply me with a small collection of specimens illustrative of the rucks of the Township; ancther excursion wamade up the Madawaska River to the High Falls, a distance of about thirty miles from the mouth; a third up the Bomechere to Jersop's Rapids, abont the same distance ; and having examined both shores of the Chats Lake, we proceeded by the Chenaus to Purtage du Fort, the highest point on the Ottawa to which steam navigation at preeent reaclies; thence we asecnded by variutus rapids and portages to the Fills of the Columet, where we were very kindly receised by Mr. Gerrard Ningle, in charge of the Timber Slide constructed there by the Board of Works, whi obligingly pointed out the locality if several mincrals met with in blasting the limestone rocks occupying the river, for the seat of the slide. Having made a complear circuit of the Calumet Island by the Rache fendue Channel, the Maissat Rapids and Mnore's Slide, we loaded uar canaes with our provisions, which had arrived in safely at the head of the Calumet Portage, and continued our expedition, examining the shores of the Couknges Lake, melud. mg the vicinity of the Fort, where we touched, 10 the mouth of the Black River, whence we proceeded by Pocket's Rapids and the Allumetes Falls, to the flourishing settlement of Pembroke, making a short excursion up the Muskrat River on our arrival there. From this we examined the south.shore of the Upper Allumettes Lake to the mouth oit the Petewawe, and crossing over to Fort William, where we were welenmed by Mr. Brown, of the Hudson Bay Company. in charge of this Pust. we skirted the north side to the entrance of the Deen River. This eplendid reach of the Oltawa was examined on the nurth side, and por. taging at tie Joachin Falls, we reached the mouth of Bemett's Brook, ubout five miles further up the river.
"This constituted the highest point to which the Ottasma had been sorveyed It is somewhat under 150 miles above Bytown, and in the investication of the country, as we passed throngh it, I was indebted to Mr. MeNuughtan for the use of a map on the scale of four miles to an inch constructed partly trum his own original surveys aud partly from compilation, which, being the only one 1 bad seen representing the measured parts of the Ottawa and its tributaries with fidelity, proved of great value.
-4 With a view to connet the geological features which might present themselves in higher protions of the river, it was consid. ered expedient, in continuing our exploration, to dial and measure our course. In the determination of our distances we availed ourselves of Rochon's micrometer telescope, the instrument which had proved so serviceable and expeditious a means of measurement, on my previous year's exploration across the Peninsula of Gaspe, by the Chat and Cascapedia. A thendolite was used to determine our bearings; and pruceeding from point tu puint on one side ut other of the river, the form of that opposite was arcer. tained by cross.bearings on fixed olyjects from the extremities of our lines. Where rapids existed, the difference of level tetween smooth water at the foot and head was ascertained by means of a gond levelling instrument and staff. with readings to the homdredth part of e fort; and the general rise in such pats of the stream as dfforded no serious impediment to the progress of our canocs, was computed from the flow of the current. The quality and atitude of the rocks were registered as we advanced. after being minutcly examined whrrever occasion required, and Mr. McNaughtan materially aided the work, by entering in his ficld. bwok an eye-sketch of the river and banks, preserving many minor turns which would otherwise have been lost in the subscquent de. fineation. The meanurements of the day were ploted in our
tent al night, by which means we were aiways prepared, by the inspection of our map the better to understand the geological relations of separate parts, and to take advantage of the conclusions such relations might sugges. This part of our Survey oceupird sceen wreks; and, notwithetanding the weather was of the most minfavnurable description for upwards of one half of the time, there having been scarecly a day without ritin, we were enabled to add to the inpographical delineation of the conntry, 150 min a of the main trunk of the Otawa to the head of Imke Temisca. mang, thirty miles of the upper part of which sequited a duble share of measurement, in conseguence of its breadin, which wid. ened out to six miles; and about fify miles on the chain of lakes constituting the Mathawn or Little River, ia tributary falling in on the right bank, seventeen leagnes above wor starting point,) including tho portage to Lake Nipissing, and a few miles on the shore of this on each side of the debnuché of the Riviere a la Vase, which belongs to the Huron waters.
"In our excursion up the Mattawa to Lake Nipissing we were indebted to the Agent in charge of the Hudson Bay Company's Pust at the mouth of the river, for the luan of a came of a siza more easily managed than the larger one of nur own, and its lightaess saved our men some fatigue at the numerous portages we had to cress in ascending and returning. On reaching Fort Trmiscamang, another of the Ifudson Bay Company's Posts, situated abont eighty miles above the moth of the Matawa, we experienced the aftention of Mr. S:veright, in charge of the Post, who, in addition to extending to us his hospitahty, supplied us with much useful information, presenting us with a Registar of Metenrological Observatons, shewing the monthly moan comperature, with the state of the weather at the Fort for two years, to the end of October last; and permitting us to copy an eye-sketch of 200 miles of the main trunk of the Ottawa, from its sources to Lake Temiscamang, where our own Survey ceased; being the joint production of M . Cameron and Mr. McKay, gentemen whose intimate knowidge of the interor renders their delineation of much value. Mr. Cameron, after having been many years connected with the Company, has, I believe, retumed to Britain; but Mr. Mchay is sill in their employment, and his presence at the pinst afforded us an opportunity of oblaining from him an addition to the map, comprising a considerable area on both sides of Lake Te. miseamang, including the storees of the Riviere du Moine and Kecpawa on the east, and those of the Montrcal and Mctabeechuan on the west, together with Lake Temagamang, the waters of which flow into Lake Huron by Eturgeon River und Lako Nipissing. On the sketches of this gentenman I am disposed to place considerabie reliance. He appears to possess a remarkable precision of momory and facility of deliuration in representing geugraphical facts. It is suprising 10 observe the clase resem. blance which his figure of Lake Temiscamang bears to that resulting from our admeasurements, and taking this as a criterion of the probable accuracy of other parts, I cannot but consider myself fortunate in the obliging readiness with which Mr. Mistay has given me the benchit of his knowledge and skill. We wese also indebted to Mr. Robert, and his brother, Mr. Naldo McCon. acl, the former residing about cight, and the latter about sixteen leagues above the Mattawa, whose avocations connected with the timber trade have carried them much into the woods, for sketches of some of the interor water communications in the country on the east side of the Ottawa, ranging some distance below and above their chantiers.
"As a test of the general correctncss of the topographical part of our Survey, it may be remarked that there appear to be no diserepancies of any moment, between our latitudes, by observation and by account; they agree to within about thirty seconds at our starting point, the muath of the Matawa, the mouth of the Vase on Lake Nipissing, and the mouth of the Kecpassa, about twenty-one lagues above the Mattawa on Lake 'lemiscamang, but we were not so fortunate as to obtain any observationa at the most northern part of the Lake, to which our measurements extended. It gives the pleasure to state that these mea. surements on the Ottawa and the various gengraphical details wo have been enabled to collect, have been made available to $\mathrm{Mr}_{\text {. }}$ Bouchette in the construction of a new edition of his Map of Canada, shortly to appea. before the public; the details will fill a space which has hitherto been a considerable blank in the representation of that part of the Province to which they belong; and the past geasun'a work of my Assistant, Mr. Murray, Fill
contribute to the same map a correct delincation of the Matan, the St. Anne, and the St. John Rivers, three considerable streams in the District of Gasper, in addition to the Chat, the Great Cascapedia, and the Bonaventure, in the same District, surveyed the previous year."
Having so far introduced our readers to the interesting preliminary details of Mr. Logan's progress in his lahorious scientific investigations, amid the lonely aqua, as well as terra-incognita of the Uttawa, we find we have occupied so much space that we are reluctantly constrained to reserve, for the next number, a description of the equally interesting character of that noble river, as well as of the geological structure of the singularly wild and romantic elevated region through which it forces its broad volume, until its brown waters are at last reluctantly incorporated with the still more mighty yet limpid current of the great St. Lawrence, below the lsland of Montreal.

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## I.-Charge to the Grudurtes of Jefferson Medical Col. lege of Philadelphia, delivered . Warch 25, 1847, by Prof. Dunglison.

II.-Address to the Class of Graduates of the College of Physiciuns and Surgeons of the University of the State of $\mathcal{N e w}$ York, delivered at the commencement, March 11, 1847, by Alex. H. Stevens, M.D., President, and Emeritus Prof. of Surgery.
III.-Address to the Graduates of Geneva Medical College, ly Charles A. Lee, J.D., Projessor of General Pathology and Mateiza Medica, \&c. Delivered Ja nuary 26, 1847.
IV.-Vuledictory Iddress to the Graduates of the Medical Department of Pennsylvania College-Session 1846.7-by Wushington L. Atlee, M.D., Professor of Chemistry.
The day of graduation is a period anxiously looked forward to by students of medicine. Having secured the acme of their ambition, their investiture with the honours of that profession to which their after hees are to be sedulously devoted, they little anticipate the troubles and the harassing difficulties which are to surround them, and which are inseparably incident to the life they have chosen. All is present sunshine; no cloud of evil import lowers; and they look forward to a bright and happy future. The period, however, is one of deep and ansious concern: in a few short minutes the link which binds the preceptor and his pupils is to be severed; and, in obedience to a time-honoured custom, the moment is seized of imparting to the young aspirant those lessons, which experience may have taught, to guide him in his future course with advantage to himself and profit to the
public, as well medical as non-medical. We have before us, in the four admirable addresses which head this article, a series of practical and useful lessons on the nature, duties, and responsibilities of the medical profes. sion.

Professor Dunglison's charge is an eminently practical one, and is well calculated to sustain the reputation which he has already acquired, as a man of a highly cultivated mind. We are pleased to observe him dwelling so em~ phatically on the cultivation of the classic languages, and recommending to all an intimate acquaintance with the modern tongues of Europe:-

At the commencement of your professional life, your time cannot be fully rccupied. Opportanty will still exist to improve your knowledge on educational topies, whichonght properly to be preliminary, but which, owing to unavoidable circumstances, may not have received from you due attention. The rich stores of in. formation contained in the classical writings of the Grecian and Roman fathers-medice artis principes-lo be fully appreciated. should be read in the languages in which they were originally conveycd; yet in the pursuit of such a luxary, it would be nad. visable for you to dissimate that time which ought to be assigned to the atteinment of what is strictly necessary. Even in the desirable there may be variety; and it may be a question with you, whether your future leisure moments may not be much more profitably devoted to the more immediately useful study of the productions of the moderns.

Where tramslations exist, the English language communicates to the mind of the inquirer, if not the words, the thoughts' of the Greek and the Roman. Many, too-perhaps most-of the best works on professional subjects that appear in the various Teutonic and Romanic tongues are speedily transferred to it. Still what a treasure is contained in the liternture, medical and general, of Grecce and Rome, and in that of modern France and Germany more especially. which must for ever escape one who is unacquainted with the languares of those countries; and hence a isnowledge of them, and, if practicable, of the ltalian and Spanish, becomes, certaimy not indispensable, but as ecitainly most ad. visable.

Dr. Stevens' address is more discursive, but not less instructive. After alluding in general terms to the nature and the objects of the science of medicine, it closes with some well-directed observations in reference to the habits, the conduct, and the duties of medical men.

Dr. Lec's address is characterised by sterling good sense. Some of his observations strike us with peculiar force. The whole address is tersely written, and abounds in judicious remarks, proclaiming the author to be possessed of good judgment and sound reasoning powers. The duties and responsibilities of the medical profession are thus detailed:-
And here let me add a word of caution. In this country, where every man is presumed to belong to ene of the two great political parties of the day, the physician is expected to enlist in the strife, and become an active partisan in the field. But, in my judgment, the modical man should not be known as a politician; nor should his political preferences and dislikes be thrust forward and fre. quently proclaimed to the world. He is emphatically a publie man, and should be a man of the people; his aim should be to recommend himself to all parties; to make himself useful to all, and not by acfive partizanship set one-half of the community against him. He shonld nether be known as a Whig nor a Democrat, but a philanthropist and patrint in the broadest sense of the terms -devoted to the common weal and the good of his patients. There is, indeed, something in the noisy pursuits of politacs, which
ecems to me utterly ineompatible with the character of a man of science, and wholyy rinous to the professional advancemenf, and even mental improvernent, of the medical practitimer. Phitics. in our country, is the great maclstrem which swallows up time and character, morale, reputation, and money; and which makes no return whatever, but disappintment and vexation of spirit. It excites ammesties; creater biterness of feeling; sepatates frience and neighbours; introduces disenrd into familios; westes tion substance; and eonfers no advantage. Shun polities, gentemen. as you would the prisonons unas; and whover tempts you to en. ter the political fich, set him down as your wurst enemy.

There is one duty which you owe to sucicty, which you will not neglect, and that is to disseminate as widely is possibe a knowlodge of the laws and conditions of healh; the gicat priaeiples of bygiene on which the prosperity of towns and cities, and wide dis. tricts of our conntry, very materially depend. You can do mawh by conversation and lectures, to spread arnund you an aequaint. ance with the efements of popular anatomy and plysiology. and in this way strike a blow at the very ront of the widespreading trec of quackery, which will wither it at its sotrec. Jo you, especially, will the community look, to inform and calighten them, in relation to the hest means of prescrving the pubilic hath ; of preventing the sprcad of contarious and infectoons disenses; the inflacnce of trades and oceupations; the effects of difierent sorts of food, of dress and amusements; the nature, catuses, and cure of those diseases, which attack the lower animals, and vegetable as well as animal life ; the influence of snil, and slimate, and suasm; of geological formations, and grographisal localities; the question of quarantine; the best modes of warming and ventitating houses: the establishment and regulation of schools and stmilnaries of learning. You will be called upon to instruct judges, and law. yers, and courts of law, in relation to many inpmotant questims connceted with bygiene, and medicine, and surgery, fractures and dislocations, and poisons; and your opinions will, if well sustained by facts and reason, be decisive, in turning the scale, athd shaping the verdict of the jury. Besides all this, you are to act your pat ans good citizens, patronizing crery worthy object; aiding in all public enterprises involving the welfare of the masses; laiking a personal interest especially in all improvements calculated to behefil the sanitary condition of the people ; contributian freely $t$, the support of education and religion-the great bulwarks of our eafety; in short, doing all that the broadest philanthropy on the most disinterested benevolence can suggest.

These considerations suggest that there are certain duties which you owe to yourselves; fur the relations which you are to surtain to the sick, and to the publice at large, imply the possession, on your part, of certain qualifications which call by ho meaus be neglected.

Dr. Atlee's valedictory is eloquentiy and warmly written, breathing the sentiments of an enthasiastic atmirer of his profession, of one almost sensitively alive to its importance, its responsibilities and its duties. From the following extract, and its truthfulness, there will be no dissentient voices, while it may serve to place the matter treated of so eloquently, in its proper bearing :-

There is one class of patients who will mect you at the vory threshold of practice, as they gencrally fall inth the hands of the young practitioncr. These are the poor. In larege cities medical services are secured to them through dispensary arrangements, public charities, and public clinics-but in country places they are wholly dependent upon the physician. And here let me panse es say, not in a spirit of bosating or complaint, nor with any pharisaical show, but in truth and self-gratulation, that there is no profession which bestows more time, more labou, more expense. and more attention upon the poor than our own. It ispurcly one of usefulness and of Christian charity. As such, gentlemen, a!ways esteem it, always sustain it. It should have mather ohject. How true is it here, that it is more blessed to givethan to recenv! This appliention to our profession is peculiarly emphatic:-- You must benefit ouhers first, or you cammat do good to yoorselves." This should be the mitto of our profession, sis it is the
secret of suecess. It shone forth in the life.time of the eminent Pott, and in these menorable words illummated with a burst of glory the last flackering of his existenes:-" II lamp is nearly extamished; ; hope ihat it has buned for the benefit of others." In your ealy interenurse with the pror, excreise your profession as if you were the debror, which gou really are. Remember they whagh acerpt jur inmature services at a time, perhape, when the nowe wenthy womblat conghe in you; at a time, tho, when you are acqumat very important infomanion-the manner of entering the she chanher, the tact of examining pationts, the method and onder of interrogation, the mole of prescribing medicine, diet, drinks, and the trowsedge of the namberless minutio connected with the tratamet oif disease. They thes afford you valnable opportamilies of clanical instraution, and of preparing yoursclves for the proper exrecise of your profesion. You there acquire that practical hoowieder of the pewer and typlication of medicmes, that focinty of recosuzing symptoms, that hapay readinese, in the sick rom, that promptness prealiar to the enlightened jhysician, whic! infase embelence beth in your patients and yourseives. Your suceess in treating the diswasts of the poor, is the first and certain sicp to gain upon the confidence of the rich.
Nor do we thatk there are any who will dissent from the high momal and religious leeling which is conspicuous in the fullowing:-

Gentiemen, there is awther matier that I desire to impress upon your minds before we separats: in your iifercouse woth your phtienta "hserce canduur an. t sinerrity. Trmathtulness of charac. ter is a jewel in cuery reiation of life; but in the physician it is begond price. 1 enuld rever understand the policy, much less acknowledge the homesty, of dreciving a patient till the last mo. ments of existen+e, and smataibing home, by assmances of recosery, even until the hand of death bas phaced the scal upon the awhil fabhemd. Fatshoml! the tem may be ton strong. Fur the housur of our profession I hope it is. There are times when our prophsisis of recovery may he perfectly honest, yet fatally er. roncuse. Here we ery and sin mot. But when I hear a physician say of his departed pationt, "I knew he could not live, yet I gave useurances of life to sustain him to the last," I tremble for the feurful responsibility which thit man violates. When patients or their family appeal to you, never duceive them wilfully-do not make the case worse or better than it realiy is-and, where death is certain and iarvitable, cven though it should be distant, never fail to make the fact known-never promise life and then permit then to de in desparr. There is a terrible meaning in such a tragedy, which I need mot here express. Sincerty athd frankness wi't ofteud ar mjure none; and you must rigidly exercise these qualities, else you will compromit the dignty of your calling, and ha\%ard your own professimal integrity.-Permit me to say, that I belicve my inturcourse with the sick has alwas been thus reguhated. I have never regretted it, eiher on my own or my patients account. It has never made thom worse, nor injared me. It calms the unsented mind, and leads it to rely upon Him who holds the reins of hife and death-thus securing that confidence, patience, and sabmission, which aid the physician in restoring paticuts to hoalth, and which, should he fail, are so heantiful and conssting in denth. There may be times and casce, however, where the result is necessarily doeblfal, where the crisis is not yet passed, matients nervons and excitable, and where the last mental agitation might produce sueh an impression on the sy:tem, as to give an unfavourable, perhaps fatal turn to the scale. Here you must be careful not to inflict a wound which you cannot repair. An impradent and illimed remork may destroy life, where encou. rased nature, buyed-np hope, would have pirterved it. Your obligations to the patieni, his family, and socicty, your duty to the proferion, and yon own inward paed, require you to employ every means for his restoration, while this is possible; and should you do murht tulessen the possibility of this result, you violate these obligations, you distarh the waters of a tender conscience. Thus you may be wrecked against a rock on one side, or engulfed in a whingon on the other-let professional honesty be your pilot, and you will pass the strait with safety.

We hàve seldom perused valedictory addresses which have given more unqualified satisfaction.

## PRACTICE OF MEDICINE AND PATHOLOGY.

A Cliuical Lecture on Purpurf or Litnd Scurvy.-By Triomas Laycoce, M D.-Scurvy is the od name for purpura hemorihagica, and land senrvy for purpura without hemortages; the two discases are allied; they are only varietics of the sane discase.

A comb-maker (an employment in which the wares are very small) came to the diepensary two or three weeks ago, comphais. jag of pains in bis bimbs, and particulaty in has thighs. He had a very squalid apparance; was salow, him, and cachectic 1 did nit suepect seurry, but rheumatism, and advised him to have a warm hab, more for the purpose of personal cleanlin'ss than anything else. After a whilo his wife came to say that he had purphe bhtehes on his thighs, and she was much alarmed about them. In lact, they had just been diseovered at the time of his petforming the ablutions I recommended. We went to visit him, and these are eur motes.
W. P., ared 46, with sallow, dirty, pale complexion, has a contraction of the muscles of the thigh and rimidity in the joints, go that he cannot stand neright, and "at touch of ricumatism" in his slumblers. There are patehes to papara on the moder surface of cach thigh; bluish parpie botehes, mothed with yelinw, like extensive ecoh; moses. Fhe urper atudenterior surface of the right thigh is eovered with petechian or sinat! parple sputs. "Fhere is a patel of purpera about hatf a hand's hreadth oa tie outhr surface of the right fuot near the ankle, and amother sinall patels half way up the lea; another patch is 1 ") be seen on the inner ankle of the left lear, and petechias on the upper hatif of the leg towards the knoe; ankles codematoms. His wams are tenter, of a livid red, wwollea, ant simited with furgrod growths ; his throat is sore; has a sight couch ; pulso 190-120, fecole and small ; tonge pale, seabron; bowels regular.

He has not been well fir some time, owing, he hinks, to want. Has felt worse since Chistmas. His diet has been prineipaty bread and tea-perhaps once in every other sunday a lithe bit of meat; an potathes, except as a treat. His house is damp, low, and offensive, from defective ventifation and want of eleanliness.

As a pendant to these motes, I will read to you the deseription of "scurvy", from a writer on the practice of physie (Dr. Brookes), ihe forrth cdition of whose work 1 hold in my hand, published in 1763:-
${ }^{4}$ The first sign of the approach of this disease is commonly a change of colour in the face, which beeomes pale, or yellowish and blotied, with a listlessenes and an aversion to exercise. The caruncles of the eges appear of a greenish cast, and yot in other respeets the patient seems in periect health. However, the change of colomr in the face does not always precede the other sympoms, thourh it constantly attends them. Then a universal hassitude supervenes, and a sithiness and fecbleness of the knees, with a difficulty of breathing on the least motion. Soon after this there is an itching of the gums, which swell, and are ant whleed on the leavt friction. Then they become livid, soft, and soongy, and afierwards extremely purid and funcous.
"The skin is dry thronghout the whole course of the discas", except towards the last, and in many it is rough. In some it ap. pears like the skin of a guose, but it is most frequently smoolh and shining. It is stained with bine, purple, livid, ar black spots, Sume of which are small and nthers of a hand's breadth, when the disease is adsanced. They are chiefly on the legs and thighs, but sometimes on the arms and trma of the body. Some have a swelling of the antales in the evening, which disappears in the morning."

Now there is a elose resemblance between this description of ecurvy, written ninety years ago, and the symptnms of the case we visited. But we left the equalid cottage of IV. P., to proceed to that of I. B., an old pensioner, aged 74, and living in a low romm in a damp eituaton. He was a sergeant and corporal in the militia for many yeurs, afterwards worked as a sawyer. His face is pale and of :a sallow waxy hoe: this appearance of pallor has become most remarkable during the last fortnight, abd for about the same period he has had certain aperarances on the skin. A large livid reddish purple pateh extends from the middle of the sight leg on its onter surface to the middle of the right foot. The frot and leg are edematous, shiming, and hot. Higher up are scattered petechize (which extend also to the thigh), and a diffu-
sed yellowness. There is a hard livid tumour near to the insertion of the psonas muscle on the upper and inner part of the left thigh, which is surrounded by a yellow surface fringed with a eircuiar line of purplish blue. Small petechim cover the thigh, and hivid patches are on the under surface of the thigh, extending to the ham. Complains of fcebleness, but of nothing else except pain between the shoulders, slight congh, and difficulty of breathmax. Pulse 105, intermittent; heart's action uncqual and intermit'ent, but no murmur or morbid sound audible. A slight wheczing or crepitons rattle in the infar-scapular regions, especially in the right. Urine, according to Mr. Brady's examinh. tion, high-coloured, specificgravity 1020, contains no albumen : tongre clean, (xecpt posteriorly; gums unaficted; app"tite in. paired; bowels confined. IIas always experienced good health, and never took anything since he had a dose of salts when he had the ague in Lincohnshire, whb blebs (memphigus) all over his thody, ha: which soon passed away. Has never tasied a potato since Christmas ; had plenty beforc. Has not had butcher's meat offener than once ia a montl. Mas now and then caten a salt herriner, hat has lived almost entirely on bread and tea.

This case resembies the preceding in several points: first, in the peculiar waxy complexion, and the vibices of the legs. These are leadiar symphoms of scoboutns. Sydenham saya, " Crurum :, wne intumesentin, nunc extenuatio; in iisdem perpetuo maculs. livide plumbed, fleva, ant vislacee; facici color plerumque ex pharido fuscus.". In the old man there were no muscular pains; in the comb-maker those werc, and indeed are leading svmptorns. The pratient himself thinks he has rheumatisn. Now Sydenham expressly treats of a speries of ricumation under the term rineu. matismus searbaticas. But 1 do not think mach of the off man sayng he has no pan; he is cvideatly very lame and infirm; his nrighbours siy he has failed in tinis respect very much lately. The fact is, very aged person- of en have great disease with little sultring-pleuritis of peripncuannin, for examples-and will never complain of pain, or even of difinculty of breathing, althongh they are paiting far breath. The greatest difference in the two cases is in the condition of the gums: the old man's are sound, or nearly so. In both there is sume degice of bronchitis. In the oid man the cardiae discase is nothing more than that which may be found in 95 per cent. of persons of his age. He has probably that atheromatuus drgeneration of the valves and endocardial membrame so constantly met with in old people, so that the cardiac discase has no immediate connection with the purpua, and the bronchitis is probably the result of the severe cold of Wednesday, the ldth inst.

These two cases of purpura are, in truth, cases of land scurvy. The two men are suffering from a lesion of the capiliary system, and of the blood itself. If we dare venture to draw blond we shonld find it tobe deficient in fibrine; the coagulum would be arlatinous; and if the disease be not cheched it will go on through all the stages of scurvy, even to the furmation of the gelatinous clot or fungus on the skin and gums, termed by sailors "bullock's liver," and tise occurrence of spreading nlecrs, anasarca, hemorr. hagie ctiasion into the serous sacs, and death.

Jhe explanation of the symptoms is not difficult. The morbid conditiun of the hlond has impaired the contractility of the vascolar system. In the depending portions of the hody the capil. laries give way from the mere gravitation of their contents: thus wiving riec to the vibices in the legs, and in the under surfaces of the thighs. The petechie are really sinall inflamed or congested pipilla, or the mouths of selaceous glands. The muscular pains are those of fatigue; there is toot enough of fibrine in the blood for the nutrition of the muscles and the maintenance of their action.
With regard to the ctiology of the disease, it is doubtless that of scorbutus or scuryy. It is in this respect that the cases are interesting. We do not notice them because they are rare or curious, (alhough they are so in York,) but because it is probahle that they will cease to be rare and corious. The potato has hith erto supplied our population with an abundance of fresh vegetable ford, containing a small quantity of a vegetabie acid (the tataric) in combination with potass: and no doubt the frec use of this vegetable has tended to render scorbutus much less prevalent than before its introduction into this country. The deaths from purpura in London during the quarter ending with December, for the last seven years, were in cach respectively, 3, 2, 4, 4, $6,8,5$, so that there has been
adual increase; but during tho
first ten weeks of this year there have been fonrtern deaths in the metropolis from purpura, or scurvs. This is agre at nerease'; for during the thirteen fist weeks in each of the hat eight years the deathe registered frem this cause werc- $-3,4,0,3,2,5,6,5$; sa that the deaths in this one quarter wif probably amome to more than have ocenred in the corresponding quarters of the list six years put together.

In the two rases under treatment potatoes have ceased to constitute an article of diet. The old pensioner anterior to Cbristmas almost lived on potatoes; since, he has not tasted one. The diet of both patients has been unvaried; there has scarcely ever been a change from the constant diet of tha and bead. The tea would doubtess be made weak, from the extreme povery of the parties, so that in reality the iwo men have been living on a diet little better than bread and water, with susar and a litile butter. This ought not to have been-indecd, it need not to have been, for a most efficient soup hitchen has been open in York during the winter: but the pensioner was infim, and lived alone, and the squator of the oher person's residence showed there was no management or help in himself or his wife. Everything was dinty; even the eat was smutty.

We need not, then, look for the canse of this form of purpnara (as some writers recommend in discase of the heart. 'The experiments of Dr. Stark on his own body (for he forgot the maxim, exprimentum fiat in corpore vili, aht killed himedf exprimentally when he should have killed a monkey, or an ase, or a cow, these experments show the effect of such a diet as our patients have had. Dr. Stark lived for thirty-two days on bread and water, and afterwards on bread ard water and sugar. The result was purpura or scorbutus; that is to say, ulcers within the mouth, refness, sweling, and bleeding of the gums and nostrils, and vibices, or purple spots and marks on various parts of his person. In the second volume of the Transactions of the College of Physicians spublished, by-the-by, seventy-five years ago), there is the history of two cases of scorbutus, communicated by Dr. Miman, in which the disease appears to have been caused by a bread and tea diet. More recenty, Dr. Baly has shown that scurvy was most prevalent in prisons where no potatoes were used. Various other canses of scorbutus have been assigned. It has been observed to occur in persons with a sufficiently mutritions diet, and indecd in the solume to which I have just referred, there is a case, ly Dr. Monro, of purpura hamorrhagica, or inveterate scurry, occurring in the person of a young man who had an ordinary, diet, but possibly witbout potutoes, as he lad "greens or roots" for dinner, meaning, perhaps, by "roots," turnips, carrots, or parsnips, In this case the puise was strong and full. It is to be remembered, however, that there are persons in whom the tendency to purpura hamorrhagica is congenital and hereditary, and is dependent upon the peculiarities of the male constitution, inasmuch as the disease appears only in the male branches of a tamily of "heteders" as they are termed. An hereditary disease of this kind nay un. doubtedly be acquired; in the examples mentioned it cannt have been hereditary per sacula sec u'orum barkwards, and consequenty, as it may be acquired, it may appear indepondenty of defective alimentation, or of the defective suphly of certain chemical constituents of the blood. This form of purpura is, however, quite distinct from the one under consideration, which arises from the causes just mentioned.

If, then, you have persons living on a tiet such that there is no variety, or no vegetables containing vegetable acids-as the tartaric, oxalic, malic, or citric-they will be in danger of sutfering from scorbutus or scurvy. And those persons will sutier the s monst who have the least power of resistance to the evil effects of this kind of diet, whether from consenital or acquired debility of the system, from ind gestion, or other disease impairing the power of assimilation, or Irom depressing external agencies in the circumfusa, as they are termed-as cold, or a raw, moist, or impure atmosphere, or excessive heat. Other depressing ajencies are, extreme fatigue, or the want of exercise, the depressing emotions, excessive watching, \&c.

The treatment is obvious from the etiology. The diet mast be regulated so that there shall be due variety, and that vegetables containing the acids named should enter into it. We have prescribed meat, porter, and potatoes, for botin our pationts, and they will, I trust, be able to attend to this part of the prescription. In addition, four grains of citric acid is to be taken every tour hours. The pensioner is already inproving; the comb-
maker has not yet had his diet fong enough from the poor's bourd. I may mention. however, that citric acid, although the etablished remedy in these cases has sometimes failed in effecting a cure, or preventing the dispase, on board ship. Nitrate of potass has been tound to be an efficient substitute, and as gunpowder contains sitrate, the remedy can be extemporized during a voyge by pouing loiling water upon the powder, and filtering. Citic acid is, I far, somewhat adulterated, and probably a :purious aricie inas been used when it has failed to check the disense. Of ceurse lemons and oranges are beneficial, but there are cheapr weyetables than these to be got as the spring advanres. Tillubal., rabbage, water-cresses, sortei, borse-raddish, tumiptons. all belos to the cass of anti-scorbutics, and were taken extensively in the sping by our foiefathers (who had few biesh regetables, and little fresh meat, during the winter) as "purifiris of the bloos"." Furmerly a spring conse of vegetable alteratives must have been hiyhly beneficial; in our forgetfulness of the social condition of our forefathers, we slight their experience, and the tratitions thereof. 1 see "nettlebecr" adverised in a shop window as an anti-scorbutic, and 1 rather think the urica, frem contaming the nitrate of potass, will be a usetulatition to the sping dietary. Netule tops boiled can scorcely be distirgnished trom spinach, if taken when young, and well-seavoned.

The results of the defciency in the potato crop will not appear only su the oubreak of palpable purpura or scorbutus. P'cople are coninually coming to us, complaning of the premonitory symptoms : as lasilude, spongy gums, sore mouth, "Aying" muscular pains, and with a certain waxy pallor. They have also anorexia, and epigastric rain, with slight feverishness. In these cass it is almost invariaby stated that potatoes have ceased to be an article of diet, and that bread is "1he staff of life." It is to be observed, too, that in case the typhus fever now prevalent in lreland make its way into our large towns during the summer, we shall have the "spotted lever" of our fortatiers, in addition to the "purples," as purpura was termed, In short, we shall have all fevers assuming the appearance of greater maignanry, which the outhrak of petechiz, vibices, and venous hamonhage, give to then, and these will characterize scarlet fever, mallipox, and meastes, as well as typhus. Now the prophylaxis is alimportant : no pains should be spared 10 encourage the daily consumption of such vegetables as 1 bave mentioned; the reasons shouid be pointed out-their force will easily be appreciated hy the public; a demand for fresh vegetables will be created, and the supply will tol ow as a matter of course Thus medical science will fulfil its lighest duty-the prevention of disease.
I ought to add, hat in his last Quaterly Report, the Registrar. General called pubic attention to the necessity of substituting suitable vegetabies for the potato with spectal reference to the prevemion of scorbutus.-Medical Gazelte.

On the Cutanews Eivptions Induced be Vari us Medicinal Subetunces.- Opium - The eruptions which in certain individuals bolhow the ase of the preparations of opium are always of an exantamatons nature. In general they consist of rod isolated patches not untike thuse of measles. 'This kind of cruption is rate.

The salan'or.- The croption induced by the ingeation of the preparations of thix tribe of phants are also of the order exanthemata, and are as meommon as those whirh are the effict of opium. The fatches are larger and irrgula;, resembling scarbitina.

The olen-resins.- All the medicinal substances of this classare liable to be fullawed by cutamons couptions, but nome so frequently as turpentme and eopaib; The cruption very much resernbles that produced hy opiun and belladonna, being sometimes measly, at other tines seatlations in its appearance. $l$ is a rare excep. tion to sece either vericies, pustuics, or papales.

Contlicer ub-This medieme sombthes gives rise to a form of cerema, which apears generally about the fith day from the combeneenmit of its use; it is, howerer, rarely observed.

Iolide of jow....m.--The eruptinas which follow the use of this medicine are lar trom uniform, sometimes being eczematous. at others pastular, as in acne. It sometines happens that the win escapes the action of the mediciue, und that the mucous
membrancs are attacked instead; in such cases we oliserve coryza and conjunctivitis, which cuase as smon as its use is suspended, but which will not yield to topical treatinent as long as the medicine is persisted ing.

The disorimintion of the chaneons affections which are induced by difiren medicinal substanes taken internatly, is of no slight pratucal importance; we have scen ignorance of these charteters atht raus que rise to very unpleasant mistakes.From Annazine de Tierapeatique, in Provincia! Journal.

A mode of Rosuacitnting Paticuts afler Inhaling the Vapour of Ethet -- Eir, For the last wedk I have been using, as a means of resuscitating patients, after inhaling the vapour of ether, purt oxygen gas, with the must perfeet sucecss. Today. I operated in nine cases on the tech: to cach patient I gave a full dowe of
 In not ance ense did the patient complaia of debilty, and ali re. covered perfectly in lese than a minute and a bati, limed by the medical mon peesent. I will, by jour promesom, in a future number of your journat, funtsh the details of these and other caperiments with oxyonth.-1 remain, \&c.

James Robinson.
Gower strec, Budford square, March, 1817 .-Lincet.

On the Effects of Ethire on the different Ciasses of Amimals. Read before the Siuth Lonton Medical Soctety, by Dr. Gull. -The following is an abstract of the principal lacts.

If a mammal or bird be mad to inspire atmospheric air strongly impregnated with ether vaponr, in from sixty to mnety scconds is muscular power is lost; it becomes tottly insensible to pain; its respiration beconcs slow and irregular in rhythm; the verons blood is of a vermion colour : the heart beats with great rapidity; its rhythm is irregular, and its force diminshed. If the experiment be mads with a frog, the ffice is produced in nearly the same time : considering, therefore, the slowness of its respiratory movement, the mixed hature of its circulating eurrents, and the lowness of its temperature, it becomes more rapidly afficted than a mammat or berd. The state of etierisation, when indued, is atso more perfect and lasting than in warm blooded animats, the res. piratory movements in frogs lung often arrested for six or seven minutes. Alcolol vapour produces similar effects;- they are slower in their accession, and more lasting in there effects-often fatal.
An increased flow of saliva is one of the ordinary effects of the inhalation of ether; this avas observed it man, in cats, mice and birds. The arregularity of the mascular movements which eome on amongst the early effeets of etherisation, do not seem to depend so much upon watit of muscular power as upon a loss of mascular sense ; that is, the power of appreciating the firce of the muscular contraction, and the exact lueality of the limb.

The phenomena produced ty the imhalation of ether vapour are allied to those which result trom alcontic drunkmoess ; the former are more transitory, and more speedily induced. If dronkemess either by ether or alcohol is extreme, it willterminate in asphyxia. Some of the phonomena of ether drunkenness are induced by cuncussion. In both states the surface is often cold, pulse irregrilar and frequent, rempiratoon irregular in rhythm and force; mo recollection of ecourences tharing the stage of concussion or etherisation; memory of events long past wonderfuily recalled both by concussion and ctherisation. Eher in some persons pro. duecs extreme fatnthess and sicknos, with trembling and pale. ress; concussion dors the same. In concussmas in etherisation, patients are occasimally violent, swearing and manifesting the phenomena of drunkenness.

It has been cousidered a remarkable fact that, by the inhalation of ether, common sensation should be lost, whilst the senses of hearing and seeing are so litte impaired; such a state if occa. sionally observed in nervous exhaustion atone: : wo classes of such cases might be enomerated-bilious diforders, and after venereal txcesses. In such cases the gat and wher muscular movements mav be awk ward, arising from this dimimation of sensation only, and not from muscuar weahness.
The phenomena arising during the inhalation of ether are not at all dependent upon supercarbonization of the blood. Frogs are rapidly affected by ether vapour, whilst they may be kept for hours
in hydrogen and mitrigen without ninury. Pure ether vapour killed a bird past recovery in twenty-five scconds. Eiher probably permeates every tiss ic, but acts most upon the nervous, on accomt of its physical constitution, the grey substance of the brain containing 45 per cent., the modullary substance $14 \cdot 5$ per cent of falty matter. The irritability of mascular fibre in frogs is not evidently dimnished by ether. Ether probably produces its effect by direct action on the tissues, independently of the quantity of blowd in the part. The first effet sems to be an increase of the fuaction, or stimulation; whether this is followed by an increaved supply of blood, according to the prevalent law of murition, it is not casy to say. If the actoon of the ether vapour be continued, a loss of funcion foltons, or what is termed its sedutive ffect; this may be the cause of denth, or the function of respiration may in the higher animals be depressed for so long a tille, that asplyxia may come on. Congestion is not a direct revit of the action of ether vapour on the bain, but, as in ordinary alcoholic drankemness, so in cilser drunkenness, asphyxia mav be intuced, and death follow.

Effects of ather on the btuot.-The rimor mortis is well marked in anmals killed by ether vapour. The blood has a strong odour of other. After the inhalation of ether it may be detected in the breath for thitysix or forty-eight hours. Blood drawn from a vein whilst the animal is fully under the influence of ether, has a vermilion colour, and corarulates fimly. The formation of the globules is unctanged.

All ohicr things being equal, it is probable that the fitorss of a pationt for the mbataine of ether, if that should be desirable, would be determined with more cortainty by observations on the nervons system; vascular plethora by no means so far contraindicating its use as a ferble nervous syetem. This opinion is bised on the kown effecs of ether on man and the lower ani. mats, especially the collabooded Fwes, when fally under the effects of etber, are yet strongly affected by a single galvanic corrcut, as may be proved by laying the animal so affected on a glass plate, and placing a sibilling under the lower part of the spiar, and a wiate of zinc under the bead, and connecting them with a eopper wire.

Equal parts of ether vapour and oxygen gas produce a compound as rapidy fatal as ether vapour only. If an animal be etherised and then made to respire oxyren, it does not recover more speedily than if it merely ropiond athosplerie ar. In many cases the respiration of oxyen aher ether retards recovery, and in some is rapidly fatal, death follwing at nee on the respiration of oxygen. These results were proved in birds, which breathe oxygen for several minates wilhut injury. Oxygen, therefore, is not an antidote to the eher vapour. Nitrous oxide gave results similar to those of oxymen.
It is an error to suppose that the action of cther is necessarily allied to asplysxia.
Mos' of the above statements ucre verifind at the meeting by experiments on ammale. The abithor ended his conmunication by the following queris apon the surgical enployment of ether:
1st, Is it oseful to abulish pain during a surgical operation?
2d, Can ti is be done sately by ether?
3d, Dues the presence of ether in the blood modify the healing process?
In answer to Dr. Munk, the author stated that, if immersed in pure oxygen ras for a shon time, the anmal would be merely excited, no wther ettiet bemg prodned.
Mr. Benjumin I'ravers, juniur, rematked, that the proximate as well as immediate eflecteshould tut be overlooked, as he believed the eflects of ether were progressive, and that a man having been uader its influence might die in the course of five days as well as of twenty-four hours. He had known a limb five days alter death suell strongly of the cther, the stump having become gangrenous. He heheved it to he a poisonous and dangerous rimedy, attended with the greatest risk, and requiring the most protand catution in its use.
Mr. Bransby Cooper, in refertuce to Dr Gull's question-whe. ther te was right in "perations to alleviate or prevent pain, provided it could be dome with perfeet sality-rimarked, that pain uns a premonitury condition, no doube titing parts the aubject of lesions to reparatury achion, and therefine he should feet averse to the preventon of it. In parts opraled upon under the influence of ether, there was no muscular contraction, no retraction of the larger ve-sels, and the small ones continued bleeding; he alluded to a case of lithotomy under the influcnce of ether. The operat-
ing surgeon remarked that, with the exception of the flow of blood, it was like cutting through dead flesh; the parts fell, as it were, asunder, and the sensation; were quite different on passing the finger into the bladder. Dr. Gull's paper had more than ever convinced him that it was a poison, and unfess other experiments proved it harmless, he should give his decided opinton against ts use.
After some observations by the abthor on the interchange of particles in mixing gascs, and therr efficts, it was moved by Dr. Barlow, scemded by Dr. Munk, and agreed, that as the time of the society lad expired, the discussion on the auther's paper be resumed at the next mecting of the society, on April 29.-London Medical Gazette.

## SURGERY.

On the Use of Muriate of Morphine in Toothache, Frontal Neuralgia, unt Neuralgia of the Fifth Pair of Nerves.-M. Ebrard has always found torithache yield, in from half an hour to two hours, after friction of the gum on the affect. $d$ side with muriate of morphine in powder. The first friction should be performed in the cvenig, it least three hours after the last meal, unless the severity of the pain prohibits delay. The patient should take a guarter of a grain of the ata on one of the fingers, previously moistened; "rab it gently on the gum fur ahont three minutes, then ineline tho head towards the affected side, avoid spitting or swallowing the saliva, so as to faveur the contact of the salt with the affected part, and maintain this prosition for at least ten minutes. This process should be repeated in two hours if relief is not ohtained. Should the pain recurn the day following the application should he repeated. Half or three guarters of a grain of the salt may be employed if necessary. The friction should not be repeated if headache, gisposition to sleep, \&c., oceur.

When neuralgi: occupics the forchead or any immediately adjacent situation, M. Ebrard reconmends from a quarter of a grain to a grain of muriate of morphine to be snuffed up the mostril on the affected side dally. It is advisable tu previently make use of an emollient frmigation, which cleanses the Schneiderian membrane, and facilitates absorption.-Gazelte Meficale.

Eigns of Fracture of the Cervix Femoris.-In allusion to a ease recently occurring in the person of a woman, aged $53, \mathrm{M}$. Velpean made the following remarks: "Pain und swelling are eigns of little consequence, as they may equally cxist in fracture or spram. The impossbility of raising the heel from the bed is - sign. It may certainly be present, also, in a painful affection of the jnint; but in the fracture of the cervix there is an absolute impossibility of raising the limb, while in this other affection this may be done if the pain be disregarded. 'Ihus, in a luxation, the patient keems at first unable to rais. the linb, but he can do so by perseverance. Eversion of the foot in not a pathognomic sign, as it may exist in other lesions, e.g., luxation on to the pulbis; but in the case of luxation, not only is the limb everted, but neither the patient nor the surgeon can change its direction, while in fracture the surgeon easily turns the foot invards. Chere are other affections in which the foot is rotated outwards, as in paralysis, and certain painful affections of the hip .The admeasure. ment of the limb is of great importance, hut it is of much more difficult accomplishment than is gencrally believed. The incli. nation of the axis of the pelvis, or of the limbs themselves, often gives rise to apparent differences, against which we must be on our guard. We mist never depend on mere inspection, but must carefully measure the limbatur having placed the patient on his back, and take care tbat he lean neither th one side nor to the other. In these persons, and in those in whom the bony points is prominent, it is easy enough to measure from the ilac spime to the upper edge of the patella; but thi re are persons in whom the iliac epine is so rounded off, that we camot be certain that we are applying the tape upon exactly corresponding points upon the two sides, and un apparent difference, anounting to some lines, may resuit. So also the patellit is not only a fixed point, but its supe. rior angle may be somewhat higher on oue side than on the other. In this way several alight arro's corjuined may give rise to the belief in a shortening, which has no real existence. By carefully
guarding against any obliquity of the pelvis, ascertaining exactly the position of the superior anterior spinous process, and carrying the tape down to the malleolus, instead of the patella, we shall avoid all sctious errors.- Medico.Chirurgical Review, Janwary, 1847 ; from the Gazette des Hopitaux, No. 68.

Treatment of Stricture of the Urethra by IIydraulic Dilatation* - Mr. Goodman, of Manchester, in a late mumber of the Medical Guzette, relates the following case: A man applied to hin for relief, having a stricture in front of the bulb, of old standing. Four months before, a small sized bougie could witir diffculty be passed. and on the time of application to the narrator of the case, total retention had cosued, after drinking freely of beer. An attempt was made to reach the bladder by appropriate bougies, but ine? fectually, and it was therefore detcrinined to have recourse to the forcible application of warm water injections to the strictured part. After introducing a gum catheter as far as the stricture, where it was well secured by a band of tape, and compress placed upon the penis to pre ent escape, a syringe full of warm water was injected with some force, and was found to pass with tolerable ease. On removing the apparatus, the man micturated immediately in a stram about the eize of a crois qual. A second application caused a still forther increase in the steam of wrinc, and the patient lett, for the time perfectly relieved.-Provincial Medical and Su;gieal Jourual.

Diagnosis of a Mercurinl Sore. -In a valmable course of lec. tures on syphilis. Dr. Purter gives the following as the character. istics of the mercurial in contradistinction to the venereal sore:

1. Mercurial sores are not necessarily circular or oval in shape, neither are their edges regularly defined; on the contrary, they vary in these particulars, and assume different forms as they spread : their edges arc often quite ragged, loose, and undermined. and their borders are often marked with a thin transparent cuticle, like that of a newly formed cicatix, extending quite around them, and giving them a silvery whte ppearance.
2. The bases of mercurial sores are not hard, neither are their surfaces covered with the tenaciously adherent lymph so charac. teristic of vencreal ; on the contrary, the surface of the mercurial ulcer may present every variety of shape and appearance, sloughy at one spot, decply excavated and rapidy uleerating at another, with exuberant granulations at a third, and cxhibiting a tendency to heal at a fourth.
3. But the most striking characteristic of the mercurial ulcer is, its tendency to spread, and the manner in which it enlarges itself. Venerial sores, when not affected by phagedena, increase slowly, and having reathed a given sze, remain so : the mercurtal generally spread quickly, and these seems to be no limit to the size they may possibly attain. I have scen an ulcer as large as my hand in each groin of the same individuat. Mercurial sores, ton, are easily distinguished from the venereal when they assume an herpetic character, and heal in one part whilst they are spreading in another, which the latter never do. This latter dragnostic is often extremely valuable in ulcers of the throat and on the penis, where any exiensive loss of parts may be most sensibly felt during tise life of the jratient. The mercurial ulceration. too, often attacks the cieatrix of a recently healed chancre, and a fresh sore is thus formed-a eircuinstance that does not happen to the truc venereal sore, except by zome accidental injury, or tho application of a new infection-Dublin Medical Press.

On the Treatment of Scrofulous Inflammation of the Eyp.-By A.Jacob, M.D., F.K.C.S.I., Professur of Anatomy and Physiology in the Royal Cinllege of Surseons, and one of the Surgeons of the City of Dublin Hospitial.- When alluding to descriptions given by writers on diseases of the eye of deposits in the iris, and beneath the sclerotic, which I consider to be of a scrofulous nature, 1 umitted to notice the fact that in syphilitc influnmation of the eye sach also take placc. Dr. Farre, in a communication made to Mr. Travers, and published in the latter gentleman's essay on Iritis, contaned in the first part of the essiys published by him and Sir Astley Conper, gives the following descripton of a case of this kind:-The patient was a delicate fe rale, aged 25, and had been severely salivated for cutaneous eruptions, nodes of the tibia,
and ulcers of the tonsils, but as the mercurial action declined, the cye became iaflamed, and "! ymin was deposited on the iris and berame organzed" For this she again look mercury, and the iritis was subdued, but after the mercurial action subsided, "the inflammation of the internal tunics of the cye returned with an extent and duration of suffering rarely cecceded. 'The disorganization was progerssive, the anterior and posterior chambers were filled with !ymut, and all sensilility of the retina was host. In one week from the recomencement of the inflammation the dis. organzation of the eye was completed. From the general appearmace of tise scleratic coat, and a distinct pointing at one part of it, joined to the cererss of cougulable lymph in the anterior cham. ber, it secmed 1 , me, that contrary to my former experience, the iritis had terminated in suppuration." Án opening was mude into the postcrior chamber of the aqueous bumour, but no dixcharge of pus followed, and the eye was ahtimately destroyed. This war, I think, one of these cases of serofuious deporition in the jris extending beneath the selerotic, the effused material being more of the nature of tubercular matter than coagulahle lymph, and ob. viously not presenting any of the characters of pus. Mr. Travers himsejf, in the same work, relates the case of another young woman, aged 24, who had been treated with merenry for pains affecting the ncad and calves of the legs, and who had subsequently sore 1 mat and a "rising upon the tibia." Her eye was atacked by infammetion a shot time afterwards. "The pupil was contracte d, irregular, and a ery lerere mass of brown lymph rovered the semi-dameter of the iris isex: the temple, projecting so as to oceapy mone than one-hird of the aqueous chamber; the cornea and bumours being hazy. The selerotic conjunctiva had a leaden colour, and the eyc-ball appeared to have lost its spheroidal shape, as from intersititial absir rption of the vitreous humour." After local bleeding by leeches and cupping, and a course of corrosive sublimate with hyosciamus, carried in to ptyalism, the eye was "surprisingly restored." Although the swelling on the tibia suppurated, doubts were entertaind as to the syplititic nature of Whe disease. In Mr. Sanuders's treatise on Discases of the Eye, a faithful representation is given of his projection of sclerotic from deposit beneath it, in severe inflammation of the eyeball, bearing a close resemblance to a puinting abseess. Mr. Hewson, in his observations on venereal ophthalmia, gives the fillowing hecount of the form of disease to which I have been directing attention : -"I have had an opporturity of sueing a few cases of some gears' standing, in which, from ignorance of their nature, no proper treatment had at any periud of the disease been employed; in these there was no appearance of inflammation. nor was any uneasiness experienced; the aque as humour had regained its natural transparency; and there was only to be seen the contracted and adherent pupit, the opaque capsule, and two or three enlarged varicose vessets, like veins, running through the substance of the scierotic. Ahout this latier period, or after the disease has for some time establshed iself in the cye, and where an irregular and inefficient treatment has been parsued, an abscess sometimes forms in the deeper-seated parts, wheh scorrally terminates in the destruction of the organ. I'ine drst symptoms which indicate a tendency to this, (as happened in a feiv eases that foll under my observation,) are sume degree of adoma and swelling on the forepurt, and on one side of the eyehall, imenediately behind the eiliary attachment of the iris. At this place, a distinct tumour soon forms, which in a few days becomes pointed, and white and soft at the apex; when opened, the matter it contains oozee but slowly from the orfice, and will be fuund dirker in colour, and more thick and tenacicus in consistence than common pus. While the abscess is thus making its why externally, we shall at the same time observe it paining towards the anterior chamber. A contiguous portion of the iria is protruded forwards, so as to come nearly in contact with the cornea: this soon gives way; and the same kind of tenacious matter which appears at the external opening is seen deposited in flaker into the anterior chamber, hut does not subsid? in, or mix with the aqueous humour, as happens in common hypopion. Bath iris and cornea are quickly destrayed by sloughing and ulceration; the aqueous humour, lens, und a part of the vitreons humour, are evacuated, the selerotic contracts abomt the vacant space, and finally the anterior chamber is obliterated.
It may be argued that the form of disease which has been alJuded to by the auhors above quoted is tray syphilitic, and that there are not sufficient grounds for assuming that it is of scrofu.
lous nature; but when it is recollected that it is an unusual consequence of syphilitic iritis, and that it takes place in scrofulous subjects in whom no syphilitic disease ever existed, the objection becomes less applicable. It is also to be recollected that an in. flammation which cominences as syphilitic may become scrofulous in consequence of the prevalence of that disease in the system, or it may from the begiming be modified by the scrofulus diathesis, and thus influrnced in its progress by the presence of two conatitutional diseases. It even sometimes liappens that the practitioner has to encounter the influence of syphtis, perofala, and rhenmatism, in the treatment of intlammuion of the eycball, and finds it to be one very difficult to resist or correct.
In providing for the treatment of at atiack of inflammation of the eyeball in a truly scrofulous subject, the practitioner has to consider carefully the probable effect of the remodies he usually employs in ordinary cases when applied to this form of disease. When alloding to the tratment of simple, uncomplicated, or idio. pathic inflimmation of the cyeball, I suggested the necessity of reconsidering the opinions generally entertained respecting the beneficial influcnce of depletion; in treating of inflammation modified by a ecrofulous diathesia, or even by that languid or defective condition of the nutritive fanctions which is often assumed to be scrofulous, or perbaps equif thes to it, I have here to suggest a simitar or even a greater degee of caution. A patient presentine all tice constitutional marts of seroula, but otherwise in vigorous hewith, may be, and often is, bencfited by local or even sumetimes by general blewding, but such a subject may also anffer from it, if it has not the effect of arresting the inflammatory action. The sudden abstraction of blood by werkening the hearts acion and diminishing the activity of the capillary circulation will often cause local inflammation to abate or even to cease altogether; but if it has not this effect it often enntributce to produce that state of the system which liads to the effusion or deposition of serum, pas, or lymph, er even of the peculiar mate. rial called tabercuiar ; and houre frequently in scrofulous than heallhy suljects. In such snbjects sloe bloeding appears to have less effect in cansing the inflammation to abate or cease than in those not so affected, and this is, I think. cspecially to lie ubserved when bleeding is resorted to after the inflammation has existed for some time and has been thuroughly establistied. Bleeding should therefore, if resorted to at all in this form of inflammation of the eye, be resorted to at the earlicst perind, and with the view of suddenly weakening the heart's action, and thereby diminishing the activity of the capiliaries rather than for the purpose of suspendug matritoo, or interupting the salutary and ordinary func. tions of the circulating organs. 'Thee local abstraction of blood by lecches or cupping, be its cffet on the disease what it may, prom bably rxercises less prejudicial intluence on the constitution than gencral bleeding, and may theref re be adopted with less risk of bad consequences; but in neither form is this resource, acording to my expericace, to be relid on to arrest intlammation in sero. fulous as in healtiby constitutions.

The practice so generally pursued of suspending the processes of growth and nutrition by denial of the n-ual guantity of food of proper quality, to arrest inflammatory action, also requires reconsideration when it comes to be applied in serofulous eubjects more particularly. Jt should be recollected that persons cannot continue to live without a renewal of the blowd circulating in their vessels; and it is olvious that such renewal can be fffected only by the administration of food cupable of affurding such blood. A suff. cient supply of the mgre dients necessary th sustain hife is aiso required to maintain a healthy state of the sjstem, and without such healthy state of the systom inflanmatory action cannot be con. trolled or provented from procecting to the extent of effecting destructive changes of organzation. Acting on these princules the practitioner should not, in scrofulous subjects at lensi, interdict for any length of time the use of nuritious food in sufficient quantuly to supply the incessant rxpendilure of its wements by sceretion and excretion. I do mot mean to say that either in quantity or quality tile diet should be as generous as in a state of health, but hic sudden and total diseminuance of animal and vegelable materials necessary to sustion life or preserve health, and the subsitutun of those incapable of doing so, such as are commonly ealied stops, swuld not be permitted. The peculiar char. acter of influmatou in scrofulous suljects is its not yielding in a short tine, or in a distmet way, either spontaneously or to remedies, but rather gradually diminishing in intensity or becoming
less active; in other words, not terminating so often in what is called resolution, but becoming chronic: we should therefore be prepared to encounter a protracted state of disease and to provide for its conscquences by sustaining the strength and healit of the pationt. With this view animal food should not be interdicted, as it generally is, from a prevatent belief that it indaces a predisposition to inflammation, or when it tak's place exasprates it. Animal food should nut be given, especially at the commencement, in such quantity as to risk even a tomporary increase in the quan. tuty of the circulating flaids, and inerehy to induce inereased aetoon of the heart and corresponding activity of the capilary cur. rents; it other words, the ;atient should not be allowed to make what is called a nearly meal, but he should have as much nutritious food as will steme the supply of the necessary quantity of blow of good quatity to his syistem. Sudden and extensive change of diet should be avoided for another reason. The stomach and almentary canal may have their ordiaary functions disturbed or interrapied by the diecontinuance of the usa diges. tible food, and the substitution of now and less agreable alments, and experience has finly yroved that nothing conimbutes more to the destructive progress of inflammatory action than such disturbanes. This, however, is a subject upon which I cannot venture to enlarge here, becatee it involves the whole questim of diet and nutrition in relation 1 scrofulous disease gencrally; but 1 am indaced to dwell so far umon it beanse il so often see the evil effects of unduc depletion and defective nutrition in scrofulons inflamation of the cye, and observe so frequently the reliance placed on medicinal remedies in its treatment, regardless of this most important mean $*$ of arresting its progress and rendering its consequences less destractive. It shomb bo understood that these ubservations are applicable to the treatment of all forms of inflammation of the eyebatl, although I bave ruserved theon for the present oceasion, becane it is i: the scrofalaus form of disease the necessity of attention to the digestive absurbent and nutritive functions luecomes more urgent.
The practitioner should not confine his attention to diet alone in providing for the improvement of his patient's constitution by means not merely medicinal. Respiration of pure air frequently changed, the maintenance of the necessary amount of animal heat and exposure to sufficient light, should not be nogleeted or forgotten. It is not only in the close, crowded, and uncleanly dwellings of the poor that attention to respiration of pure air is demanded, the sleeping-rooms and nurseries of afluent persons frequently require as much care badiy constructed as they gene. rally are, fur the attaimment of this object, athd encumbered, as we frequently find them, with window and bed curtaine, carpets, and unnecessary furniture. A volume might be watten on the ventilation of sleeping apartments, and on the contrivances which might be adopted to correct the defeets of construction in our houses whici render a free circulation of pure air impossible, the measures to be pursued with the same view in the crowded rooms of the poor in large towns, or of their cottages in the country, would require an equal amount of space for their suggestion. I ean therefore domomore here than direct the athention of the practitioner to the subject, and leave it to his judgment and opportunities to apply a remedy. The maintenance of a salutary annout of heat in the system, especially in young persons, requires attention also, diffent, as it often is, to secure it in consequence of the direction of the currents of air flowing from the doors and windows to the fireplace. A temporary screen, with the necessary clothing and bed eovering, and in winter a fire of sufficient strength, will enable the attendants to effect this object. The exclusion of light or immuring the patient in totial darkness is generally considered an essentiol part of the tratment in all inflammons of the eye, yet I am convinced that the practice is founded on erroneous views. It appears to he assumed that light must necessarily cause pain, and consequently intation if admitted into an inflamed eye, but this is a mistake. Light, it is true, often docs produce this effect, especially in the advanced stage of disease, and in pecuiar forms of it, but as often do we find no inconvenience experienced by its presence. I therefore do not exelade light by chosing the shuters or drawing the curtains, but merrly as a precaution let down the surblind, or 1 direct the patiemt tos sit with the bark to the window or candes, as long as no eomplaint is made of pain from exposure ; being convinced that in the inajority of cases dietressing intolerance of light in induced by rendering the cye more sensitive to it by the use of shades and
curtains. These obsersations respecting diet and general management are more applicable to whot is called the after-treatment than to the first attempte to arrest inflammation, but I bave made them here because I so often see the evil consequences of a dis. regard of such means followed by the warst consequances. The rule from the very commencement shoold be to avoid as much as possible making the patient an minalid, and in all eases where the practitioner can venture 10 doso , he should treat the patient without confinement to bed ar bed.r.om, and even, if the weather be fine, allow exercise out of doors in shaded situations. The principles which I thus suggest to be applied in the tratment of scrofulons inflammation of the cye have been advocated by writers on disease of this nature, both ancient and modern, and are therefire not advanced as original. Mr. Carmichacl long ago inculcated similar doctrines in his essay on the Nature of Scrofula.

While treating of the other forms of inflammation of the cyeball, I entered at such length into enquiries respecting the value of the varima romedies prop sed hor its relief, that it is onnecessary to reensider them here in detail. Antimonials, mercury, iodine, turpentine, iron, cinchona, sarsaparilla, gnaiarum, and even colchicum, may, I emelude, be made as avalable, with the neces. sary limitations which cirenmstances demend, in scrofulous as in the idiopalhic, syphilitic, or rheamatic species. It is necessary however, in suggesi some modifications of these agents to adapt them to the treatment of this form of divease. In a well marked acute attack of iritis or inflamonation of the eyeball occurring in a scrofuhous subject, mercury mnst be given as under similar circumstances in other varicties, but the practitioner should not forget that he bas to deal with a constitution which will not ulti. mately bear with imponity the effects of this remedy as well as the ordinary or heattly one: and also that in such astate of constitution the beneficitl effects of a full and free course of mercury are not so apparent or decisive as in a sounder state of the system. The medicine should be more slowly and cautiously introduced unaccompanied by that debilitating treatment so often adopted in other cases, and it may even be given in combination with tonics and during the use of mutritions food. The preparation to be used requires considetaion. The blue pill, with or without opiom, as the state of the bowels demands, will generally prove sufficient, and in less acule rases the componad calmel pill, commonly called Plummer's pill, may be found preferable. Corrosive sub. limate (the muriate or bichloride of mercury) has been much extolled, and I believe extensively employed in this eity in the more chronic or protracted forms of inflammation both of the eye and conjunctiva, but as the advocates of it genemally direct it to be dissolved in tincture of cinchona, by which it is of course decom. posed, no cuidence of its superiority is afforded. The value of iodine as a remedy in inflammation of the eyeball has been considered when treating of the oher forms of this disease. It is, however, in ecrofulous inflammation that ins influance should be more relied on, if confidence is to be reposed in the opinion entertained respecting its virtues in this disease genrally. I do not think that a practitioner would be justified in relying on iodine in any form as a means of arresting in its list stage acute inflamma. tion of the eyeball caused or modified by scrofula, but 1 think he may place reliance in it as an aid in the mure advanced stages of the disease, either in combination with or following mercury. In cases of this kind, the plan I pursue is to give mercury iu mode. ration, until it begins to produce its usual efficts, and then to commence with the iodidn of potassium. Five grains of the pilula bydrargyri is given three times a day until the gums become affected, and then continued in five.grain duses, at night only, giving from five to teugrains of the iodide of polassiun in the morning and middle of the day. After this bas been persevered in until the mercury has had in fair trial, the pill at $n$ ght is dis. continued and the fudide sabstituted for it, either alone or in decoction of bark, if the stage of the disease and the state of the constitution demands it ; or the indide of iron mayrup in the duse of three or four grains daily is given. In those cases in which the inflammation is a repetition of former athacks, or a relapse, or where it has become refractory and chronic, mercury having been frecly and repeatedly used before, the iodide of potassium or iodide of iron affiods an obvious resoarce, and under such cireamstances 1 have seen it, I think, eflect as much as could be expected from any other remedy.

In the mure advanced stages of the disease, or even at an
earlier period if it does not yield to the remedies above enumerated tonies und nutritious food, removal to a more healthy lacality, and every otber means usually resorted to in scrofulious affections must be adopted. Cinchona or other vegctable tonics in such form as the practitioner may consider best suited to each individual case may be emploged with advantage, and iron, either alone or in combination with other remedies, should have a trial. Patients residing in large towns, should be removed to the country, and even from one locality to another differenty sitnated. As to local treatment little rrmains to be added to the observations already made under this head in treating of the other species of inflam. mation, except enjoning more caation as to the application of blisters which in scrofulous suljects so often are the cause of enlargement of the cervical glands.-Liublin Medical Press.
 by Dr. Richard Lang, of Arthurstion, appeas in the Dublin Medical Press fur May 12, 1847, and whl probably interest our readers.]

On the Ith of January, Ix47. I was called to Mrs. P., aged 47, whom I found suffering from intense pain in the lower part of the abdomen; thirst insatiable; inerssant vomiang of a brown coffee-coloured fluid; pulse suall, 110 ; extremitics cod; conntenance anxious and sunken; bowels constipated. This had been her state ever since the evening of the preceding day, now 16 hours.

On examination I found a firm inelastic tumnur, about the size of a large egg, in the right groin, not very painful to the touch; the abdomen was slightly swollon, and very tender. It appears that she has had an inguinal hernia for scveral years, for which a truss used to be worn, but this for some time past had been laid aside.

As it was evident the gut was strangulated, I had the woman placed in a warm bath and bled her, and then tried $r$ duction of the protruded bowel by the taxis whthout effect; a tobacco enema was thrown up, and the taxis again tried inctrectually. As I was now obliged to leave my paticnt, an anodyne draught was given, a pill containing half a grain of opium, and one grain of calomel ordered every hour, efferveseing draughts occasionally, pounded ice to be kept continuaily on the hernial thmour, and the bath to be again used during the night.

I was prevented from again seeing Mrs. P., until noon of the 12th, when I found her situation most alarming. The pulse was at 126, small and hard ; comntenance still more sunken, and of a leaden hue; vomiting inccssant and stercoraceous; abdomen more swollen and tender; hernial tumour unaltered; occasional hiccough. A tobacco enema of full strength was thrown up, and the patient again placed in a uarm bath. Whilst she was under the complete influence of the tubacco, every prudent effort at re. duction was patiently, but ineffectually tried. The necessity of an operation seemed now inevitable, but the patient or ber friends would not hear of it. I therefore as a dernier resort, determined to try what opium in large duses would do.

A pill containing three grains of opium and two grains of calomel was directed to be given every hour, and an encma of strong chicken broth thrown up every fifteen minutes, in order t, support her failing sirength. 'The three pills first given were specdily rejected; the fourth and fifth were retained; a cresintion of pain and vomiting followed, and by the time that 8 pills were given, an urgent desire to evacuate the bowels followed the administration of one of the broth iojections, which led to relief and perfect recovery.
[Cases of the successful employment of opiom and its prepara. tiona in the treatment of strangulated hernia, have been repoited aiso by Dr. A. W. Davis of Prostcign, (Provincia! Medical and Surgical Journal, Aur. 28, 1841.) Dr. David Benl, of Carlisfe, (Monthly Journal of Aिed'cal Science, Sept. 1841 ; Brathwante's Retrospect, v. 4., p. 149,) Mr. Geurge Comper, of Grecnwich, two cascs, (Medical Guz<tfr, Feb. 18. 1842) Dr. James Ross, (Munthly Journal of Mredical Sciruce. Jall. 1813 ; Birathwaite's Retrospact, vol 7., p 239.) Mr. J. M. Walker, of Neweastle orTyne, (Medical Gizette, Jan. 12, 1844.) Mr. J. W. Rowlands, of Ironbridge, Provncial Medical and Sargical Journal, Feb. 5, 1845.-Ed. Provincial Medical and Surgical Journal.]

Case of Nasal Calculus.-By Henky Cook.-The following case came under my trealment not long since, and being one of rather rare occurrcise, I have thought it might not be naworthy a place in your valuable Journal.
Mrs. H., aged 25, of grod constitution had been suffering for the last eighteen months frum severe headache. The pain most intense over the fromtal sinuses, accompanied by an offensive discharge of a muco-purulent character from the left nostril and throat. The pain in the head lad increased to such a degree, as 10 materially impair her memory, cnusing at times dimness of sight, particularly of the left eve, giddiness, with loss of appetite and a disordered state of the digestive organs; in fact, her general heath began to be scriously affected, and in this condition she applied for advice.

On examination, the nasal passage, on the left side, appeared to be complotely blocked up. I was first led in suppose that the obstuction might be owng to a poiypus. or other morbid growth, but on passing in a probe a had subtance was encountered, about wo inches from the orifice, lieling to the touch like a portion of bone in a state of necrosis. The stptum was forced over W the opposite side, cansing the rellu nasal passage to be somewhat contracted. The left lachrymal duct was abstructed, and pressure mide at the inner canthus was followed by a discharge of parnent mater from the puncta. Stihicidum lachrymarum existed, and the conjunctiva of the eve was somewhat injected. The probe being withdrawn, a pair of polypus forceps were then introduced and with some dufficuty I succeeded in grasping and extracting, a hard body through the mostrils. Considerable henorrhage followed but it was soon checked by the application of cold. The foreign body was of arregular form, rough, about an inch long by hatf an inch in diameter, hard, brittle, and evidently of a calcareous nature.

The patient was not a ware of having introduced anything into the nose, but stated that she first observed sime obstruction about eighteen months since.
Inilammation of the mucous membrane of the nose and throat fothowed, but, iclded readily to the aniphlogeste treatment.

In Rankin's Abstract sevem! cases of nasal calculus are record. ed, but I am wot aware of any that have been pmblished in this country.-Boston Medical and Suigical Journal.

## MATERIA MEDICA AUD PHARMACY.

Observations on the comparutive utility of the Bromide and Iodide of Potassium in the treatment of the secondary and triary forms of Syphilis. Reast at the Surgict I Suciety of London, May 1, 1847, By Jonn C. Jgan, M.D.. F.R.C.S.I., surgeon to the Westmoreland Sock Hospital-Mr. President and genlemen- We cery practitioner whose field of investigation leads him bryond that which is generally aliotted to the surgeon engaged in mere private attendances, and who enjoys the indisputatie advantages and paramount privileges which the wards of an hospital present, whether considered in relation to the opportunitios afforded of studying the forms or varietis of any particular class of diseasos, or testing the efficacy of those remedial agents employed in their cure, it must have ucearred to him, how insufficient are the data, and consequently how fallacious likely to be the deductions drawn from a few isolated cases, which on a more extensive scale might probably but form exceptions to the general rule. It is thus that the hospital surgeon is enabled patiently and porse veringly to follow ng any suggestions that may tend to the alleviation of human suffering; and whilst he is ever ready to appreciate the labours of those who, even in the most remote degree, may have contributed to the improvement of medical science, be is alike prepared to discard the opinione, and raject theso theropeaic means and applances which the result of experiment fails to confirm.
The grouping together of symptoms with a view to the classif. cation of disease, the minute and accurate study of the local and contitutional indications present, or tikely to arise in the course of treatmed, whether these abmemal alterations are the natural preducts of disease, or have assumed their peculiar fe atures from the effect of constitutional or what is more likely to occur in syphilitic ulcers) from topical interfcrence, are points which can
be only satistactorily and fairly determined by reference to the facts which fall under the observation of those who are conversant with the daily extensive and practical returns deducible from the source referred to.

It has been urged as an objection to investigations carried on within the walls of an hospital, that the inmates having bad their constitutions shattered with repeated accession of disease, and having had their system undermined by various privations, and deterinrated by intemperate excesses, are not in a suitable position to afford results which might prove advantigeous in private practice. Is, let me ask, the votary of pleasure, the sensualist, whose easy circumstances only pander to his unbrided lusta, upon whon no reliance can be placed for the accuracy with which he follows the advice preseribed, and who, in order to give a chance to the triumph of nature over art, is but too anximus to evade those restrictions required by his attendant, to be selected in preference to the hospital patient, who affords daily, and if sequisite, hourly opportunity of inspecting the progress of symptoms, and observing the diffircut phascsunder which they present themselves? What has rendered monortal the names of the illustrious individuals who have long since passed from a mongst us? What gives weight to the opinion, and stamps as undoubted authority the works of those of the present day, is it not the institutions to which they are attached, and are not their works mrely the recurds of their labours as performed in them?

I have been led to thrse preliminary remarks from similar objections to those which I have endcavoured to refute, having been made against a communication which on a former occasion I had the honour of reading before the society, the materials of which were composed exclusively of matter collated in hospital practice.

The observations which I purpose offring this evening shall be for the most part confined to the comparative utility of the bromide and iodide of potassium in the treatment of the secondary and tertiary forms of syphil: -a subject which, as far as I am aware, has not as yet bcen brought belore the profession.

Some months bave now elarsed since the altention of the profession in this city was directed by Mr. OReilly, in a paper read hefore the Dublin Society, to bromine and its preparations, who from upportunities afforded hirn during his stay in the United States of America, was cnabico to collect and import a conside. rable quantity of that mincral to this country. 'The mode of procuring it, its physical properties and action on the animal eco. nomy, have been so fully duelt upon in the paper to which allusion has been made, as tor render it unnecessary for me to detain the society with any further particulars. At the perind referred to, from the exorbitant price iodine had allained, a substitute was eagerly looked for, and to supply this desideratum, bromine was introduced as possersing properties almost analogrous to those of iodine, and with this recommendation in its favour, I commenced to employ it in th se cascs in which I had been in the habit of using the iodide with the most beneficial results, but which from the circumstance just stated had been nearly put beyond my reach in hospital practice.
To form anything like a correct estinate of its effects, I selected for trial patients similarly affected with those whom I had been accustomed to treat with the iodide of p.tassium, and have drawn up a statistical table of the results wheh has euabicd me to institute a comparison between the two modes of treatment. The varicties of disease which I have arranged into four classes were as follows:-
1st. 'The eruptive furm, comprising the papular, rupial, and ecaly varieties.
2nd. Affections of the throat, comprising increased vascularity, ulceration at back of pharyns, and excavated uleer of the tonsil.
3rd. Osteocopic paitr.
4th. Uicers of legs.
In the first or eruptive class there were cighteen cases of the papular variety, of which a cure was accomplished in founteen after a protracted period. In the remaining four it appeared to exert no effect, and the iodide was eventually substituted,
In the two cases of rupia, one patient died, worn out by frequent epileptic attacks, in whom the bromide had been used with qittle brnefit for six weeks. In the other, no perceptible alteration was manifested in the symptoms which presented

In the scaly varicty it failed in one; the other recovered, after a lengthened period, desquamation appearing to be the result more of time than the operation of medicine.
In the second claw, consisting of affections of the throat, its
use was attended with success in two cases of increased vascu. larity in which it was employed: on one case of excavated nlecr of the tonsil (the only one from the rarity of this form of disease in which I had an opportunity of testing its effects,) it produced no beneficial result; and out of six cases of ulceration of the pharynx, its protracted use was only productive ot advantage in three.
In eighteer cases of syphilitic pains, success followed in tour. teen instances; in the remsining four the iodide was resorted to, to effect a cure. During its administration in this form of the disease, I was frequently obliged to have recourse to anodynes, in order to render the patient insensible to pain, over which for a considerable period it appeared to exert no salutary influence.

In the fourth class, comprising ulcers of the lower extremities, which might te more properly termed syphilitic cachexia, it produced a beneficial effect in two, but failed in three. 'The mini. mum dose employed in these several instances was five grains, the maximum ten, three times a day, beyond which I found it impossible to push it: the vehicle selected for its exhibition was whter, with the addition of a little simple syrup.
In taking a retrospective view, extending over a period of four years, of the cases of secondary and teitiary syphilis treated with the iodide of potassum, and those just detailed in which the bromide was substituted, I think the former line of treatment must strongly recummends itself to every impartial mind for the following reasons:-

Firstly. The iodide exerts, in the majorty of instances, an in. stantanenus, decided, and always a beneficial action, contrasted with the bromide, whose effects are slow, unsatisfactory, and frequently unsuccessful.
Secondly. The iodide seems to act favourably, not only upon the disease for which it is prescribed, but also upon the constitu. tion in general, by increasing the appetite, improving the powers of digestion, thereby enabling the patient to gein desin while under its influence, whilst the bromide nut unfrequenily produces nausea, impairs the appesite, and deringes the digestive organs.
And lastly, every ferm of secondary and tertibry syphilis (with the exception of intis) is amenable to the action of the iodide, whist that of the bromide is extremely circamscribed. A very general impression prevails among the profession, that in order to obtain favourable resuits from the exhitition of the iudide of potassium, it is requisite to administer it in large doses. From tho experience which 1 have had in its employment in the Lock Hus. pital, I should say that far more desirable consequences are hkely to ensue from miderate than excessive doses; it has seldom occurred that every wished-ior indication was not tulfilled by fivegrain doses, and in no instance didit appear necessary to increase it further than ten grains thrice a day.
The vehicle most commonly selected fur the exhibition of the iodide of potassium, which, by the majarity of writers, is con. sidered materially to assist its therapeutic qualities, is some preparation of sarsap rilla, usually the compound decoction. From repeated experiment, I feel convinced that the beneficial effects of the iodide are in no way assisted by these preparations, as to the utility of which, either directly or indirectly, reasonable doubts may be entertained.
As it may be a matter of considerable importance to detect the adulteration of the jodide with the bromide of potassium, iny friend Mr. Emerson has kindly furnshed me with the following simple method of ascertaining the admixture. Take of the suspected salt one drachm, dissolve in two ounces of distilled water, of sulphate ol copper two drachms, dissolved in the same quantity of distilled water, mix, and put both into a clean oil flask, and boil till the vapour from the flask will not produce any effect upon a piece of paper, to whose surface a sulution of starch has been applied, the fluid remaining in the finsk, if impure, will immediately, on the addition of a few drops of a solution of chloride of lime, give the usual orange colour of bromine, which will be rendered more apparent by the addition of a little starch. Bromide of potassium is not precpitated by sulphate of copper, in which it differs from the iodide.

I had purposed offering a few coneluding remarks upon the comparative utility of mercury and iodine in the secondary and tertiary forms of syphilis, but as I hope at a future day, and in another form, to be enabled to enter more at large upon the sub. ject of syphlitic diseases in general, I will not further trespass upon the time of the society.
Dr. Stapleton felt pleasure in being able to confirm Dr.

Egan's views respecting the properties of the bromide of potassium. In comparison with iodide of polassium he had found it, in fact, almost inert. I'he latter medicine he had been in the babit of using for the last ten years in bospital practice; its beneficial action being more particularly manifest in syphilitic rheumatism -with the addition to the mixture of 3 ij . to 3 viii. of waterwhere there was excessive pain, of a grain of muriate or acetate of morphine; while in using the bromide in similar proportions, and even with the same addition of morphine, it produced hardly any effect. Dr. Stapleton was of opinion that in the majority of scaly syphilitic affections mercury is the mos! beneficial agent; but in many cases of violent pericranial pains, \&ce, he had known the iudide of potassium to act like a chanm. Its ermbination with tonics, as iron, quinine, \&c., he had also known to be most efficacious in broken down constitutions, much more so than when administered alone.

Dr. Egan was happy to find his own experience so well borne out by Dr. Stapleton, wh, had so extensivcly used both remedies. He agreed with Dr. Stapletn regaraing the class of cases most likely to be berefited by the bydriodate of potass; though, perhaps, be conld nol entirely agre with him respecting its entire inefficacy in the scaly and rupial forms of erupton. Such cases are rarely to be met with, and perhaps we have not as yet sufficient experience of them. No doubt, tubcrcular eruptius of the face, and scaly eruptions, are often dificult tu be gor rid of with hydriodate of potass, and disappear to a great exient under the use of mercury. He had not tried a combination of narcotics with the iodide or bromide of potassiun.

Professor Apjohn had hcard Dr Egan's paper with very great interest indced. In testing the efficacy of this new remedy he had directed his attention to a very interesting topic, and he (Professor Apjohn) was rather sorry to find that the result went to prove the inferiority in point of efficacy of the bromide as compared with the lodiclo at potassium. Mr. O'Reilly, who bad in. troduced it here in a speculative spirit, had given Professor Apgohn a specimen wheh he fotud remarkably pare; Mr. O'Reilly baving, it appeared, discovered a terile siurce of the drug in certain sait eprings in America. Dr. Egan lad athoded to an im portant point, one which aequired addtional impottance from the results of the action of the remedy-viz, the testing the freedon of hydrodate of potass from any mixture of the bronnide. The mode of proceeding, however, appeared to be rather rough and inadequate. Professor Apjohn proposed as a mode of ascertaining with accuracy the relat ve quantities of iodine, or iodine and bro. mine, in combination with potass, to uhain a precipitate with nitrate of silver, weighing the latter, then adding chlorine to separate the silver, and finally, comparing the loss of weight of the precipi. tate with the relative quantities of the elcmentary gases. He would beg to ask Dr. Egan whether he had given the remedy a trial in any but syphilitic affections. Dr. Williams of London, an authority of high character, had stated that he found it extremely useful in chronic uffections of the spleen and liver; and in the London pharmacopceia there is a formula for the preparation of the bromide.

Dr. Egan perfectly agreed with Professor Apjohn as regarded the roughucss of the analysis set furth in his paper, but it was the only one that suggested itself to himself and Mr. Einerson, the apothecary of the hospital, some days ag . He was aware that sume of the continental writers had used the bromide in serofula, affections of the spleen, liver, \&c., and that it had been tried also as a substitute for iron, but in this respect was totally inefficacious.

Dr Geoghegan begged to say that he had rather extensively employed the bromide of potassium, and was disposed to concur in great measure in the statements made by the previous speak. ers: however, he must say that in some rupial affictions, he had fuund it decidedly advantageous, even administored alonc. In venereal rheumatism also it had been extremely serviceable, but in most other respects its action was probably inferior to that of the hydriodate.

Dr. Bigger thought that at a moment when our relations with America have assumed a character so exceediagly philanthropic, we should not too readily fling down the gauntlet of defiance against a product that as yet would scarcely seem to have had time enough for a fair trial in the medical world. It might be in the memory of many present that the hydriodate of potats on its first introduction had for a long time been treated with nearly
similar suspicion. He Dr. Bigger had seen the bromide of potass used with great efficacy in many scrofulous cases and some erup. tive affections of the scalp. Dr. Bigger spoke in high terms of the favourable effects produced by balhing in some salt springs on the borders of the Rhine which were found to contain this salt in small quantities. Those springs w.re first employed for wash. ing horses in, but on being discovered to contain bromine were resorted to by thousands of scrofulous subjects. At one of these places, Crcitzach, a young lady a friend of his had got id of scrofulous tumours of the neck which had long resisted every means of treatment.

Dr. Benson said he thought we should not altogether condemn this remedy, though he might ubserve, notwithstanding sur present kindly relations with Armerica, it must be confessed that its efficacy was mot at atl equal to that of the indide. He had lately an opportunity in the City of Dablin Hospital of testing its effects in a case of enlarged thyroid gland in which the iodide had previously been for a grod while employed both externally and internally; yet the woman herself deciared after she had used the bromide for some lime that the improvement was much greater than while she was using the iodide, and so it decidedly was, as observed by the pupis and uthers. The case, too, was such as one would say when the woman presented herself was of a very obstinate character: one tobe of the gland was indurated and encysted.

Mr. Butcher suggested the pnssicility that in the furegoing very interesting case, though unperceived by the woman herself, the absorbents may bave received an amount of stimulus which the slight action of the bromide was subsequently sufficient to keep alive, and thus the result aseribed to the latter medicine.

Dr. Benson mentioned the fact as just stated, without any desire to enter into possibilities. Mr. Butcher's suggestion was ingenious.-Dublin Medical Press.

Deoth by Strychnine-Report on the Case of the Late Dr. W. C. Wurner.-At a late meeting of the Addison County Medical Society of Vemont, the undersigned were appointed a committee to aseretain the facts in the case of one of their members, the unfortunate William Cullen Warner, M.D., of Bristol, who deceased, suddenly, at Montpelier, October 11th, 1846, in the thinty-ninth year of his age, while he was a member of the Legislature.

On account of these having been considerable discrepancy in the pubished reports in relation to this melancholy event, the committee addressed letters of inquity to the Hun. Daniel O. Onion, M.D., of the Vermont Senate, and to Charles W. Horton, M.D., Member of the House, each of whom, they had leamed, were present during most, if not atl, the period of the sudden and tragical event. To the inquiries of the committee each of these gentiemen has given prompt and satisfactory replies, which in substance ate here subjoined.

1. In your opinion how much sulphate of strychnia was taken?

To this Dr. Onion answers, "I think probably from onefourth to one-half a grain. As he intended to take, and supposed he was taking, morphia, he would be likely to use the same quantity he was in the habit of using of that article, although there was no evidence at the time of the quantity taken." To Dr. Horton, who was called into the room inmediately after the accident, Dr. Warner said, so Dr., I have taken hy accident an over dose of morphine; help me if you can," at the same time handing him the phial enveloped in paper.
2. How soon after was any effect produced?

Dr. Horton says, "It is my opinion, from facts subsequently obtained from Gea. W. Nash, who occupied the same room with him, that he fell the effects in less than five minutes."

## 3. What was the first symptom?

Dr. H. replies, "constriction of the throat and tightness of the chest, with rigidity of the muscles in attempting to move." Dr. O. says, "He first complained of a wanit of
air, and requested the window to be raised ; whether it was from faintness or a constriction about the respiratory organs, I do not know, although I think the later.;
4. What sympioms ensued from the first dill death occurred?
Says Dr. O., "When I first saw him, he was lying unon the bed in a complete tetanic convulsion; his head somewhat drawn back; his comtenance completely livid, with some frothy matter issuing from his moath, with frequent moans. The palpebra constantly in motion. This fist paroxysm may have lasted some five minutes, which was succeeded by an interval of partial calm." "During this interval," continues Dr. O., "it was somewhat difficult for him to articulate with distinctness. He made several attempts to romit in this interval, hy exciting the fauces with his finger. Thete spemed to be some constiction ahout the throat, as it was difficult for him to swallow." "This interval lasted perhaps five minutes, when another paroxysm commenced by a iittle starting and stiffening of the extuemities, and immediately the whole body was thrown into a tetanic paroxysm, in appearance like the first, and lasted two or three minutes, when death ended the strugyle."
"In about theee minutes from the first paroxysm," says Dr. H., " the tetanus again returned, and in the space o: two minutes deah closed the scene, with terrble spasmis of the entire system. The pulse remained unaff cted till the last struggle. It is my opinion that the immedide cause of death was suspension (?) from spasm."
"His appearance," says Dr. O., " led nie to believe that death ensued from asphyxia or suffucation. There must have been great congestion of the biain, which of itself might have proved fital."
5. How soon after taking the article dill death occur?

Dr. H. says. "From the best information which I could obtain, 1 should judge that death ensued in furten minutes." "The lime fiom taking the article till death ensued,", Dr. O. remarks, "could not have been over twenty minutes."
6. Did his mind remain clear till the last struggle?
"I think;" replies Dr. H., "that he was peifectly conscious from the first to the last, except in the paroxysm of tetanus, foom the following facis:-1. His appral which he made to me, as noted in the first article. 2. On Inosening his cravat, he requested me to unbuton his vest, at the sam? time desiring me to take out his gold watch and take cate of it. 3. An emetic having been admiaistered, he applied his finger to his throat to provoke a nansea. 4. And, from the last words he uttered, 'I fear, I fear, $O$ God, delver me.' $"$
7. What means were used to prevent the fatal resalt?

Dr. H. sajs, "On witnessing the first symptoms, I left the room for the purpose of obtaining medicine. I procured an emptic of sulphate of copper and ipecac.: but returning and finding him in a tetanus, I immediately dashed cold water on his head, face and breast, and used the most powerful friction on the extremities. He eeturned to a state of perfect consciousness. I then proceeded forthwith to adiminister the emetic, making use of diluents copionsly. I sent a messenger for sone vinegar and ground mustard, and another for a stomach pump. I used the ground mustand, in warm water freely, to all of which the palient submitted, seeming to he very gratefil for the efforts which 1 was making for his relief. The means were used without any apparent effects." "When death had ensued, a number of the medical fraternity being present, we retired into an adjoining room; when the fatal bottle was produced, with the wrapper still around, it. On removing this, it was found labelled 'strychnine." Dr. O. states, that "'s till this time, we were in ignorance of what he had taken." Dr. H. avers, "that here I wish definitely to state, that before the last paroxysm came on, I was fully convinced in iny own tuind
that the fatal drug was not morphia, but strychnia, and I so declared to those present at the time."
From facts belore the commitice, derived from reliahle sourcens, it appears that on the afternoon of the second day hefore the faral accillent, Dr. Warner cailed at an apothecary store in Montpelier, and asked for and purchased what he supposed to have been a bottle of sulphate of morphia. This was handed to him by the apothecary, enveloped in a brown paper and twisted at boh ends. That on the fatal r:orning Dr . W. tore off the envelnpe surrounding the mouth of the notile, and tiok a portion of what he supposed to have been morphia. He then proceeded to pour so:ne of the supposed mophia into a small phial in which he had been in the habit of carrying su'phate of morphia, when he was suldenty arrested ty the symptoms narrated. It is quite clear that he never entertaind any idea of the fatai drug he bad taken. "I am certain," says his amlleted hother, "that he never for a moment suspected that he had taken strychnia, and was wholly unconscious of the agency whicin had produced his awfuly unprecedented suffetings.")
Dr. W. had never possessed very firm health, and for about two years before his death he had suffered from an inodinate action of the heart, for which he had accasionally taken morphia. This affrction of the heant had been the sequence of an inflamatory affection of the chest, which be had "arly in the year 1844.
The committee have taken considerable pains to ascertain the facts in this melancholy instance of death from a mysterious mistake. The mistake was centainly a singular and mysterious one, hoth in relation to the apothreary and the mifirtunate man. It apprass that Dr. W. asked for sulphate of morphia; the apothecary intended and supposed he had sold him moryhia till atter the fatal event, when he found, through mistske, he had given him, enveloped in a paper, a botile of sulphate of strychnia in lipu of morphia. This exposition of lacts appurars in be demanded in justice to the character of the deceased, to the apothecary, and to the medical profession.

In a medical point of view the case is one of much and deep interest, since it so clearly manifests the tive and enelvetic character of this somewhat new medicinal agent. And in a medico-le gal consideration, it may prove of immel.se importance. In the suddenness of the effect, and in the quickness of the fatality, foom the use of strychnia, this case is probably withont a precedent. Christison, Pereira, and several monographical writers, in the periodicals, have recorded some had results, and some fatal cases, from over dosing with this agent ; but no instance has fallen under our notice in the human sutj ct in which its administration, either accidentally or otinerwise, has so speedily and terrifically proved fatal.
"No poison," says Christison, " is entowed with more destructive energy than strychma." "I have," he adds, " killed a dog in two minutes with the sixth part of a grain, injected in the form of an alconolic solution into the chest. I bave seen a wild boar killed in the same manner with the third of a grain, in ten minutes; and there is little doubt that half a grain thrust into a wound might kill a man in less than a quarter of an hour. It acts in whatever way it is introduced into the system, but most energetically when injected into the veins."

With the exception of prussic and oxalic acids, there is prohably no agent possessing an equally destuctive power. Strong prussic acid is well known to be sulficiently energetic to destroy cats or doge, when properly administered, in less than a minute. And Pereira examined the body of a man who had accidentally taken oxalic acidin lieu of Epsom salts, and died in twenty minutes.

Jonathan A. Alien, M.D.
Erashus D. Warner, M.D.
Wh. P. Russell, M.D.

## MIDWIFERY.

Oat the Food of Chilheren-By Dr. Thompros.-After some remarks on the rulative quantities of nutritive mater in various articles of dich, Dr. Thmonsom makes the following useful observations on the approprate food of chitdren.
"Milk, in some form or other, is the true food of children, and the nee of arrow-rowt or any members of the stareh chass, where the relation of the nutritie to the calorifiant mater is one to 26, instead of being as 1 to 2 . In making this statement, I find that there are certain onisapprehensions into which modical men are apt to be led at the first view of the sabject. To render it clearer, let us recal to mind what the arrow-root class of diet consists of. Arrow root and tapinca ate prepared by washing the ronts of certain plants until all the matter solable in water is removed. Now, as albmen is soluble in water, this form of nutritive matter must in a great nomsure be washed atway ; under this afpect we might riew the original root beffere it was subjected to the wasthing process, to approximate in its eomposition to that of fluar. If the tatter snbstance were waslied hy repeated additions of water, the nitrogenous or nutritive ingredients would be scparated from the starehy or calofifant elements, being partly soluble in water. and parlly mechanically removed. Arow-root may therefore be ensidered as finu: deprived as much as possible of its nutritive mater. When we administer arrow-root to a child it is equivalon to washing all the nutritive matter ont of bread, flour or oatmeal, and supplying it with starch; or it is the same thing approxmatively as if we rewe it stareli; and this is in fact what is donc when chindren are fed apon what is sold in the shops ander the litle of "Farinaccous fiod,"-cmpirical preparations of which no one can moderstand the composition without analysis. Of the bad effects prodnced in children by the use of these most execp. tionable mixtures. I have hat abundant opportunitics of forming an opinion, and I am inclined to infer that many of the irregularities of the bowels, the production of wind, \&c., in children, aro often atributable to the use of such umatural species of food. It thould be remembered that all starchy food deprived of nutritive matter is of artificial production, and searecly, if ever, exists in nature in an isolated form. The administration of the arrow reot elass is therctore only admissible when a sufficient amount of mutritive matter has previonsly been introduced into the digestive orgats, or when it is unadvisabie to supply mutrition to the system as in cases of inflammatory action. In such cases the animal heat must be kept up, and for this purpose calorifiant frod alene is uceessary. Thes treatment is cquivalent to removing blood from the systen, since the wasting ol the fibrinons lissues goes on, white an adequate reparation is not sustained by the introduction of nutritive food. A certain amount of muscular sustentation is sill, bowever, effected by the arrow-root dict; since, according to preceding statements, it contains about one third as much nutritire mater as some wheat flours. The extensive use of oatmeal, Which is attended with such whokesme conscquences anong the children of all ranks in scoland, is, however, an important fact, deserving serions consideration, and it appears to me, is strongly corrobartive of the princip!es which I have endeavoured to lay down.-LErperinenta! Researches on the Food of Animals 1846, p. $169-171$.

On the Nutural Periods of Deiivert.-Dr. Leroy has observed the following circumstance in connexion with the period of de-luery:-1st, the natural term of delivery, as well as premature delivery, has a cortain comexion wiht tite monthly periods; 2udly, the return of these periods during the whole duration of pregnancy agrecs with the period of the month corresponding with the date of the day on which the eatamenia commenced to appar for the Jast time. whatever may be the munber of days reckoned to each month; 3ally, the premonitory sympums of delivery at he naturai period commence, in the majority of females, at the date mentioned, or dariar the succeeding seven days; Thly, neverthetess, the emmmencenient of the expulsive pains may still uccur in the normal manier, at the fifteenthday of the tenth month; 5 this, every delivery which oceurs before the datementioned may be considered to be accelerated; Cthly, every delivery which occurs atter that date may be considered to be retarded; 7thy, the accelerations are proportionably much Icss numerous than the protractions:
most commenle they do wot precede the time specificed by more than 5 days ; Sthly, the protractions, on the contrary, are not li. m ted by any period; 9hly, in ether case the canses of the aceclerations and protractions are very appreciable in the greater number oi instances.- Jourinal de Loire, in Monthly Journal of Medical Science, July, 1S46.

THE

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## MONTREAL, AUGUST $2,1847$.

## SANATORY MEASURES FOR TUE IMMIGRANTS.

A question of exceeding moment, as far as this clity and the Upier Province are concerned, has arisen out of the concomitants of immigration this year. It is the establishment of a sanatory depot for them below this city. While we admit the desitableness of as great an allux as possible of inmigrants into this Province, it is at the same time our duty to see that that afflux is not attended with destructive consequences to the population of the Prorince. Now it is notorious, that this year, on the route usually pursued by the immigrants, divease and death have followed closely on their progress; and this disease, in the majority of instances, as far as the immigrants themselves are concemen, and invariably so as far as the resident popalation on the route are concerned, was ship or typhus fever. Now a majority of the adult inmigrants who arrive in this comity, undergo a process of acclimatement, of which fever, usually of a typhoid type, is one of the phenomena, but which this year is more aggravated in its chamacter than usual, due undoubtedy to the distresses incident to their protracted royaces, and their prohably enfebbled constitutions anterior to rmbarkation ; and this we assert, without in the least attempting to controvert the well ascertained fact that stich a type of fever has acquired its peculiar malignancy from the confincment, bad rentilation, se., incident to their voyages. As far as our ohservation extends, and we think we have had some expericnce in the matter, these cases of fever most usually develope themselves, in a majority of instances, within the period of a few week atter arrival in this comery. It would hence follow, that to prevent the spread of a contagions disease in the Province, a quarantine of at leas three weeks or a month should be iusisted upon by the Government. But there is a Quamantine establishment at Grosse Isle; and this would be sufficient to the end, did its temperature athain the altitude of that of the country in which the imangrants intend to settle. But its tomperature is very considerably below that of the in.
terio of this Province, a creunstance the entirety to its geographical position. The mean tempecature for the city of Qaebec, for the months of May, Xune, Juty, and Angust, extracted from the results of ten years, is $62^{\circ} .42$, while that of Montreal for the same months, over a similar interval, is $60^{\circ} .6$; that of Grosse Isle must be lower still, is consequence of its position and its distance, (abont 30 o: 3 3. miles) fom the former city. The process of acclimatment cannot then take place in a locality so mueh below that of the country which it may be supposed to represent, and as the biscase, which is bat one of the phenomena, will generally manilest itself, under the favouring circumstances of temperance, \&ec., some locality siould be selected in the interior of the comury, in which these changes may take place; and as the disease, especially that of this year, is a contagious one, the locality ought to present every possible obstacle to malimited intercourse with the inhabitans. Some insular position below this city would subserve the end; an end, ton, the consequences of which would be experienced by the whole proviace, as it would tend most matorially to restrict the disease to its pecaliar localc, and prevent its dissemination over the country, an ineritable consequence of the rapid transit to the interior of the im. migrants as they arrive-a method of management based upon a total ighorance of the nethre and effecte of those acelimating changes which the immigrants nocessarily undergo.

## BILAS OF MORTMLATY FOR THE CTTY.

The inaceuraey of the mortalify returns of this city for the last two years, consequent upon the method adopted to obtain them, having been pointed ont to the City Councel by the Medico-Chirurgical Society of this citr, that hody has lately repealed its by-law in this respect, and adopted another, by which the inportant object of accuracy will be, as far os possible, sectared. We publish the by-hw, as well for the benefit of the members of the profession in this city whone natuenced by its provisions, as for the purpose of directing the attention of medical men in the other incosponted inswns of the province to the subject, that they may get he good cxample followed by their own civic atthorities. Accurate mortality returns are of the highest adrantage to every commuaty; and one good resulf, at leas, must forv from those even of which we are at present possessed, namely, a reduction of the rates of life insurance, which are disproportionately high for the middle ages of life, as far as this city, at least, is concerned: the
mortality at such periods being at a lower ratio than that in most cities of Great Britain.

$$
\mathrm{BY}-\mathrm{L} A \mathrm{~W}
$$

Of the Cuncil of he City of Mantrenl. in pratidn for Weekin Returns af the Euturmen's in the Gity-
Whereas it is crpedint in amend a By-Law, No. 176, of the Comeil of the city of Monteal, passed on the seventecnth day of October, in the ycat of our lord one hhonand dight humdred and forty-five proviling for wedly rutus of the intermats in the city, and to make further provision to bhtain more convet and regular statments of he intemants which take phace withia the city limats: At a semial meether of the Council of the city of Montreal, held in tire City [3a:, of the said city of hontreal, this twenty-third day of Jome, in the now your of har ford one thousand eight handed and fory seven. inder and by virthe of 1 be authority rested in them, in and by the fict of the Provincial Legistante, 8 Vic Chap. 59 , in the nsanary unt after observance of all the formatiles preseribed in and by tho sada ace, at which said meeting not less than two thithe of the menbers of the Council, to wit, the following members therent, are gresent, riz. : Ifis Wuship the Mator, John Easio: 3:Bhs. Gesquire; Aldemen
 Q bhb, Gomic, Sims, Valow, Horwin, (iags, Beandry, Buach.
 Connsil do herehy widain ata enact:
 is heroly repeated.

Section Il.-That the cleck, sumerimeadom, beade, or other person or persons having chare of any vabl or horying gromb in the said eity, shal beraker, busen the tarors of nine of the clock in the forenom, and mene, of starday in each week, mate and deliver to the Chich of Pobler, or, in the event of his abremes,
 stad, for the time being, a return of the potsons buried in such vant or burging gromm, thrina then sud weck, in the form contamed in the sebrdule $A$, hemento anmexed, under a penaty not
 ceeding thity days lior cach and every refuzat, weglee ar omassion so to do.

Secton III-Abl be it farther oramod and emated, That it shall be the duty of the Chinf of Folion, a "neer the remats mentiened in the preceding Sectios, in a book, in he kept by him fir the purpose, and on or befure tion hour of totar of the cleck in the afterneon of Saturday in cach weck, to make out and deiver to the City Clerk of he sade che, a wenca! renan of ath the fersons buried whin the limis of the said eit:, dumber the said weeh,
 recesed by him from the chats, smermenternts, loadtes, or






 poments inter or perme: th bo intereed any dowd hody therem,




 Phymein shat! have athented sabh decensed, hana hy sum of hat
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[1.S.]

## (Bignta)

Schedule A, referred to in the by-law, contains the following particulars: The name; date of decease;
male, whether bor, married, widower, or bachetor; female, whether girl, marricd, widow. or mmaried; age, specifying years, montle, and days; place of residence, sperifying the number, street, and wand the country of the deceased; the disease; and lastly, the length of residence in the city.

Schedule B, to be furnished ly the medical attendant, specifies the name, date of disease, age, birth place, date of death, place of residence, the disease, and iength of residence in the city.

This by-law will immediately come into effect; and printed schedules will he immodiately fumished to a!! tip phasician; in the city, who, we doubt not, will checrfully secom the efforts of the City Council in this respect.

The Incerporation of the . Madical Profession of Lower Canud". The "Act to Incorporate the Members of the Medical Profession in Lower Canada, and to Regulate the Study and Practice of Medicine therein," received the assent of His Excelleney the GovernorGeneral, at the elosing of the Provincial Parliament on the 28 th ult. As the profession is now governed by this act, it will speedily become necessary to adopt measures to carry its provisions into exccution. The medical boards of this section of the Province of Canada are now abolished, their duties being vested in the Incorporated College. We are exeedingly happy that the profession is at last under what we certainly deem a salutary degree of control, and that its interests are now likely to be effectually preserved; and we hope soon to be enabled to record in our panes a case or two in which its provisions will have been made to bear on the quacks who infest this city, by way of example to those of the country who are much more presunptuous and more numerous.

In consequence of a strong remonstance on the part of the Druggists and Ajothecaries of this city, and the assurance given be them that they wom forvard a measure for their osm incorporation as a Pharmacentical Society, at the ensuing session of the Legisature, all the clatses of the Bill relating to them have been expunged. We have not the slightest objection to this proceeding on their part; for we have long thought that, considering their number, their respectability, and the specific objects of their pursuits, hey should be specially encowed with powers peculiar to themselses. Being now publiely pledged to the attainment of this n!ject, we sincerely tope they will earry it out, and this, too, at as early a priod as presible; inasmach as, hy the repeal of the Act 28 Geo. III. c. 6 , they are, as a body, mbinhuenced now by ay Legislative enaciment whatever; ond it is a duty
which tiney wne to the publice, to the medical profession, and themselves, that sueh a state should exist but for as shori a time as possible.
$A$ : the Bill has thes received some very considerable mod fications, we will publisin it in our ensuing number, as it has passed the several branches of the Legislature.

While on tinis subject, we may not inappropriately ask, what has become of the Bill for Incorporating the Medical Profession of our Sister Province? We have made frequent and ansious enguiries about it, but to no purpose.

Henlth of the City.-Stich an extem of disease as has prevailed in this city during the last six weeks, las unt been kuown for years. One prevailing cause is fever, and this of a typhoil type, attributable entirely to the direct and ahost unlmied access which the immigrants have bern permilted to the city. Since the arrival of these unfortunate creatures, disease-not only among themselves, hat also among those who have administered to, or visited them-has tracked their course w the interior; prochaming, in language too loud to be misinterpreted, the absohate necessily which exists for aloptiag some means of establishing an isolation of them, and compulsorily !orcing a complete non-intercourse. To their introduction of it into the eity, must be chiefly aftrimuted the rapidly increasing rate of mortally from fever alone. For the six weeks, commencing on the 12 hh Jme, and radiog on the 24 h huy, the mortality retures for this city aftord, among the resident population exchavely, the following progressive ratio: 3, 4, 12 . 25, 58, 72 :-at rai, demonstrating too conchsive! the dane uman which it depemis. Other paisipal catien, of diepase are cholem (sporadic), and diarthere, disenses which tasually are met with during our sumban amathe. The weather has heen escedingly hot and opmesive. math within the last week: the temperature hathing heen considerably above that which wsually obtains at this period of the year ; the themometer hawing stood at $96^{\circ}$ and $98^{\circ}$ fequently, once reaching as high, wo have been minmed, as loz' in the shade.

In Quelfec, we are also informed, there has been an masual degree of sickness. Feter is equally as rife there as here. The Marine Hospital is crowded to such an cxcess, as imperatiely to demand the tem. porary establishment of a tever hospital, for which purpose the cavalry haracks, on the Plains of Abraham, have been granted by the gesernment.

Proposed Fever Hospital in this City.-In consequence of the preallence of fever in the city, the crowded
slate of the Montreal General Hospital, and the manifest impropricty of converting that institution into a fever hospital exclusively, the Corporation have voted to the Board of Health, on the representation of the latter hedy; the sum of $£ 500$ towards the establishment of an hospital exclusively intended for the reception of fever cases oncurring among the residents of the city. A deputation from the Boad of Health has been examming various Iocalities; and a situation in Brock Street, Quebec Suburbs, presents peculiar advantages for this purpose. A report to this effect was presented to the Buard of Health a few evenings ago, should the idea be carried out. The whole matter, however, is still en delibré, and dependent upon the subsequent progress of fever in the city. Under any circumstances, the existence of such an Institution in the city would seem to be demanded, and we anticipate that, before long, one will be e:stablished.

## OBITUARY.

In this city on the 15 th ult., Dr. Bernard M.Gale, aged 45 , from typhus, contracted in the performatice of his duties as one of the medical attendants at the Enigrant Sheds, Griffintown.

## THE LATE DR. GRASETT.

"Why dost thou build the hall? Son of the winged days: thou lookes: from thy fower today; yet a few years and the blast of the deart comes; it howis in thy empty court."
Died, on the 16 th ult., of typhas fever, at the residence of his brother, the Rev. H. Grasett, A.M., Rector of Toronto, George Robert Grasett, Esq., Prineipal Physician of the Emigrant Hospital at Toronto, and one of the Physicians of the General Dispensary. Dr. Graset was the son of the late Dr. Graselt, a military medeal ollieer, some years since on service in this colony. The subject of this brief memorial was a young man of great promise, and in the enjoyment of an extensive and rapidly increasing private practice.

Surrounded by "troops of friends," and enduwed in an eminent degree with those qualities of mind and person which bespeak for their fortumate possessor a favomable reception everywhere, the world seemed to present to him only its sumny side. In the midst of a career thas successful, he has been caught suddenly away to take his place among the sons of immortality. The decrees the Omnipotent are full of wisdon and of merey; and the spirit of our amiable friend rejoiced, as its crumbling envelope gradually gave way in the glorious prospect set before it.

In the humble abotes of the suffering poor of this large town, in the reception room of the Dispensary where his benevolent smile was wont to greet them, his virtues are the theme of daily praise, and his death the subject of deep and lasting sorrow. At the table, too, of the Medico-Chirurgical Society, where he officiated for a hong time as sole secretary; and latterly as joint secretary, with Dr. Nicoll of King's College, his absence will be
felt, and deend regretten. In a word, Dr. Graselt was one of those men whose places in society it is very diflicult adequately to fill. His death has furnished another evidence of the fatal elficacy of the exeiting cause of the fever at present raging among the cmigrants, the true character of which has been concealed muder an mmeaning name.-(Communicuted.)

Toronto, July $20,18+7$.
At Vercheres, on the 22d ult, at the carly age of 24 years, Alired Malliot, M.D., fourth son of the Hon. F. X. Mhhiot, of the said place. This promising young physician gradunted at M•Gill College two years ago, and we sincercly sympathize winh his friends in the bereavement which they have sumered. His liee is the forfeit of his zeal in favour of the mofortuate immigrants who have this year landed on our shores.

## books, \&e., RECEIVED.

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Geological Survey of Canada-Report of Progress for the years 1845-6. Mentrenl.
Gcological Survey of Canada-Report of Progress for the yeara 1846.7. Montreal.

Proccedings of the National Medical Conventons, held in Now York, May, 1846, and in Mhiadefohia, May, 184z. Philadel. phia. 1817.

Buffalo Medical Journal- July.
Annu:t Circular of the Medicial Institution of Gencva College, Session 18.5\%. Junidu.

The lledical Examiner-July.
The American Jumat of the Medical Sciences-July.
The Southern Jommal of Medicme and Pharmacy-IUly.
The American Jomenal of Science and Arts-Jaly.
The Amalist-July 1, 15.
Anmal Report of the Povincial isuatic Asylum, 'lorontoToronto, 1847.
Some Accoat of the Letheon. or who is the Discoverer, hy Edward Warren-3d edition. Buston, $18: 7$.

The Medical News and Library-June 25, July 29.
Jomton Medieal Gazette-June 18.
Trimaphs of Young Phy:ic, or Chrowthermal Fucts, by W. Tumer, A.M., M.D. New York, 1847.

Provincial Medical and Surgical Jommal-Jume 16.
Report of the Collere Committce of the Town Conacil of Ednburgh, Patrots of the University, regerding the statutes of the University relative to the Derrec of 11. . En .
Imquiry into shac points of the Sthatory State of Edimburgh, Sc., by James Starke, M.13. $18: 17$.
Teport on the Murnality of Edimburgh and Jrith for the year 1846, and Jamary and Febmary, 1847. By ,ames Clarke, M.D. Edinburgh, 1847.

Report of the College Cummitice om the Propriety of Altering the Regralations which riquire Alfendance at University Chasses exclusively as Quatifyins Candidates for the Degrec of MD. Edinhargh, Apil i, 1842.

Copy of Recter in the Lord Provost, Magistrates, and Town Council of Edinhurgh, from S A. Pagan, President of the Rayal College of Surgems of Eilinbureh. F.dinburgh, 7h Nov., 18 th.

Report on the Mortality of Edmburgh and Leith, fre the six monthe, June to Noveabier, 1816, by James Stark, M.D. Edinburgh 1846.

Report on the Mortality of Edinhurgh, Leith, and Newharon For January and Febrmary, 1846, by James Stark, M.D. Edinburfh, 1846.
Testinonials in fuvor of Joha Guodsir, Esq., F.R.S.E., Canddate in Fayour of the Citair of Anatomy in Cdmburgh. Edn. burgh, 1845.

Souhern Medical and Sureical Joumal-Ibly, 1847.
Buston Micd and Sura. Journal-Junc 30, July 7, 14, 11
The Wevtern Laned-July.
A mericun Joumal of the Aitedeal Sciences-July.

Bilf of Mortality for the City of Montrealg for the monthending Jene 30， $184 \%$ ．

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|  | Oiher Ciauses，．．．．． 5 | 5 | 10 | 1 |  |  |  |  |  | 2 | 1 |  |
|  | Totial，．．．．．．．．．．．． 101 | 150 | 311 | 85 | 46 | 16 | 26 | 8：97 | 37 | 15 | 25.20 | 6 |

Among the above are inchuted 130 Immicranta， 65 malres and 65 fenales．Or these，there died from Fever $5 \boldsymbol{5 l}=27$ males and 24 femates；from biartheat $41=24$ males and 17 fimales；from Dysentery $3=2$ males and 1 female．At the atres recorded in the
 35 to 45， 8 ；45 to 55． 14 ； 65 to 75,7 ； 75 upwiads， 1 ．

MONTILY METEOROLOGIGAI，REGISTER AT MONTREAL FOR JUNE， 18.47.

|  |  | Thermoneter． |  |  | Bromerer． |  |  |  | Winos． |  |  | Weather． |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7 Am | 3 \％．м． | 10 mm | Mean． | $7 \mathrm{A.rr\mid}$ | 3 P．m． | 10 pm | Mean | 7 ． 1.15 | Nomen． | $6 \mathrm{p} . \mathrm{m}$ ． | 7 A．M． | 3 1．m． | 10 Pm |
| 1, | $+55$ | $+67$ | ＋53 | ＋61．－ | 19970 | 29.68 | 29.50 | 29.63 |  |  |  | Fair | Shwers | Rain |
| 2, | － 59 | － 6 fis | $\therefore 60$ | ＂63．5 | 21.46 | 29.58 | 29.66 | 29.57 |  |  |  | fiat | Fair | Fair |
| 3 ， | ＂ 61 | ＂ 79 | $\square 6.4$ | ＂．74．－ | 29.61 | ${ }^{29} 10.57$ | $\because 9.43$ | ${ }^{29.55}$ |  |  |  | fair | Cair | coloudy |
| 4， | ＂ 64 | ＂ 75 | ＂ 51 | ＂ 69. | 24.39 | 29.37 | 23.41 | 23．3！ |  |  |  | Rain | Fair | Raint |
| 5, | ＂54 | ＂ 61 | ＂ 52 | ＂ $59 .-$ | 29.12 | 29．5．5 | 29.67 | 29.55 |  |  |  | Fair | Fair | Show＇s |
| 6， | ＂ 59 | ＂ 75 | ＂64 | ＂67．－ | 29．6． | 29.67 | 29.69 | 29.07 |  |  |  | Fair | Fair | Fair |
| 7. | ＂67 | ＂ 8. | ＂ 63 | ＂ 74.5 | 29.69 | Q9．74 | 23.73 | 29.72 |  |  |  | Fiair | Pair | Fair |
| 8, | ＂69 | ＂ 80 | ＂ 64 | ＂74．5 | 29.73 | 24.72 | 23.72 | 29.72 |  |  |  | Finr | Fair | Fair |
| 9 ， | ＂67 | ＂66 | $\cdots 6$ | ＂ 66.5 | 29.71 | 29.58 | 2947 | 29.57 |  |  |  | izition | Rain | Rain＊ |
| 10， | ＂ 71 | ＂ 36 | $\checkmark 71$ | ＂ 78.5 | 29.47 | 29.50 | 29.51 | 29.49 |  |  |  | Eair | Rain＊ | Rain |
| 11， | c． 72 | ＂84 | ＊ 6.1 | ＂ $78 .-$ | 29.31 | 29.28 | 27.26 | 29.28 |  |  |  | Raiu | Rain | Rain＊ |
| 12, | ＂ 59 | ＂ 57 | $\because 5.5$ | ＂ $58 .-$ | 29.27 | 29.37 | 29.41 | 29.35 |  |  |  | Choudy | Shwers | Fair |
| 131 | ＂ 58 | ＂ 76 | ＂68 | ＂ 67. | 29.16 | 29.30 | 29.24 | 2336 |  |  |  | Fair | Fair | llain |
| 14， | ＂63 | ＂ 73 | － 49 | ＂ $71 .-$ | 29.25 | 29.10 | 29.07 | 21．11 |  |  |  | F，ir | Rain＊ | Rain |
| 15. | ＂44 | ＂ 49 | ＂ 52 | ＂46．5 | 29.03 | 29.20 | 29.37 | 29.22 |  |  |  | Rain | Rain | Rain |
| 16, | $\because 53$ | ＂ 79 | － 57 | ＂ $6 \cdot$. | 29.50 | 29.51 | 29.64 | 29.55 |  |  |  | Finir | Rain | Rain |
| 17， | ＂ 60 | ＂ 76 | ＂ 64 | C6 $68 .-\mathrm{C}$ | 29.73 | 39.78 | 29.81 | 29.37 |  |  |  | Fair | Fair | Fair |
| 18， | － 65 | ＂ 77 | 1.66 | $\because 71 .-$ | $29.8{ }^{\circ}$ | 29.80 | 29.72 | 29.80 |  |  |  | Fair | Fair | Fair |
| 19， | ＂ 66 | ［43 | ، 57 | －6 6.4 .5 | 29.69 | $29.6{ }^{3}$ | 29.60 | 23.63 |  |  |  | R：ini | Rain | Rain |
| 20, | ＂ 65 | ＂ 80 | $\because 67$ | «72．5 | 29.62 | 29.61 | 2959 | ${ }^{29.61}$ |  |  |  | Fair | Fair | Fair |
| 21, | ＂ 63 | ＂ 73 | ＂ 58 | ＂ $68 .-$ | 29.61 | 2960 | 20.64 | 29.62 |  |  |  | Rain | Rain | Fair |
| 22, | ＂ 66 | ＂ 74 | 4． 03 | ＂ $70 .-$ |  | 29.72 | 29.73 | 29.72 |  |  |  | Rain | Rain＊ | Cloudy |
| 23 ， | ＂ 67 | ＂ 77 | ＂ 66 | ＂ $\mathrm{Cl}^{72}$－ | E9．73 | 29.70 | 29.72 | 29．72 |  |  |  | Rain | Fair | Ear |
| 24， | $\cdots 65$ | ＂80 | $\because 72$ | © 72.5 | 29.73 | 29.69 | 29.71 | 29.71 |  |  |  | Fair | Fair | Fair |
| 25, | ＂ 71 | －8．4 | $\because 73$ | ＂ 77.5 | 29.71 | 29.68 | 29.66 | 29.68 |  |  |  | Eair | Fair | tair $\ddagger$ |
| 26, | ＂ 70 | ＂ 92 | － 73 | ＂ $81 .-$ | 29.66 | 29.63 | 29.62 | 29.64 |  |  |  | Eair | Fair | Fairt |
| 27, | 475 | $\because 91$ | ＂ 7.3 | ＂83．－ | 29.62 | 29.55 | 29.56 | 29.58 |  |  |  | Fair | Fair | Fair |
| 23， | $\cdots 77$ | ، 89 | － 77 | ＂83．－ | 29.55 | 29.56 | 29.56 | 29.56 |  |  |  | Farr | Fair | Fair |
| 29, | ＂ 71 | － 80 | $\cdots 6.1$ | ＂ 75.5 | 29.55 | 29.57 | 29.61 | $\stackrel{29.53}{29.66}$ |  |  |  | Railu | Fair | Vair |
| 30， | ＂68 | ＂ 82 | ＂ 67 | ＂ $75 .-$ |  | 29.65 | 29.69 | 29.66 |  |  |  | Fair | lair | Fair |
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[^4]
[^0]:    * Having given the above brief abstract of the highly ereditable arrangements of New York for this great work, we decm it hut justice to add that a large portion of the fanits of the united habours of the seientific men employed are atready before the world, under the particular auspices of the Government, in the form of ten splendid quarto volumes, with mamerous beatifully coloured and othar plates, on the Natural Ilistory of the State. Of these the five first, denominated Part 1st, are devoted to the different branches of Zoology; the 2 ad liart, to he confined to Botany, we have not yet secn; and it may possibly not be yet puhlished: the 3d Part forms one whame, restricted to Mine. raingy: the 4 th Part, devoted to Gcolowy, consists' of four volumes, each limited to a particular district, as above hinted: the 5th Part, we belicve, is not yet publighed; but as known tu pe intended to be devoted to Pularontology.

[^1]:    * The valuable labuurs of the assistant geologist, Mr. Marray, have already spoken for themselves; and it must be gratifying to the srientific part of the publie to be aware that, in the selection of the present talented chemist, Mr. Hunt, the geological depart. ment has secured the services of an individual whese well-carned credentials from the very first scientific authorties in America, do him the highest honour, and secure to the Province the most va. uable and beneficial reaults.

[^2]:    * Should the revival of such an uffice, by namp, be deemed inadvisable, surely there shond be a non-political deputy survegor general to cach Province, in immediate connexion with the Provinctal geulugist. Were there no other cause for such an arrangement, the great advantage that wonld be thereby derived by the comby, from the latter officer being enabled to place himeelf at once in dircet communication with every deputy surveyor in the comary, for the parpose of acquiring or calling for uscful preliminary local information of a geological or topographical nature, would be sufficient to warrant it; but there are other substantial reasons, among which would be having at the head of the survey. ing department of cach Province, not only competent judges af the scientific acquirements necessary to furm an efficient Provincial survevor, but an acknowledged public officer, bound to certify to the qualifications of all applicants for such appointments; which no one will pretend to say is at present the case in political unpro. fissional Conmissioners of Crown Lands. Should such appointinents be found adrisable, it is not necessary to go beyond the walls of the Commissioner of Crown Labds. office to look for ta :ented individuals to fill them.

[^3]:    * Among the delusive instances of this description, in which much ignorant speculation, as weli as a good deal of moncy, has been uselessly wasted, even in Canada, may be reckıned varicus attempts at the working of saline springs; the cxpectation of finding coal where, according te the laws of nature, no such mineral

[^4]:    
    

