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# UPPER CANADA JOURNAI 

or

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SEPTEMBER, 1851.

## ORIGINAL COMMUNICATIONS.

Art.XXIX.- Anomalies met with in the Dissecting Room of Trinity College, during the Session 1850-51. By N. Bethune, M.D.
Most of the following anomalies occurred in one salject, a man of middle age, who died suddenly in January.

Muscular System.-The pronator radii teres presented a remarkably abnormal origin from the lower fourth of the ridge running to the inner condyle, thus completely obliterating the space at the bend of the elbow. There was an anomalous division of the vessels at this part presently to be noticed. In the same subject was found a supplimentary muscle in the posterior tibial region. It arose as a distinct muscle from the lower part of the tibia, and passing beneath the internal malleolus, below the other tendons occupying this position, and separated from that of the flexor palleis by a distinct synovial membrane, was inserted into the os calcis. Thas, in place of three, there were four tendons between the heel and the inner ankle, the supplimentary tendon being nearest the calcis.

Vascular System.-In one of the subjects brought in at an early period of the session, the exturnal jugular vein took a remarkable course. In place of crossing over the sterno-cleido-mastoid muscle, it edged along its anterior border, and approaching the corsespond ing vessel of the opposite side, communicated with it by a thick short trunk midway between the cricoid cartilage and the top of the sternum, and then suddenly changed its course outwards, and. passing beneath the sternal attachment of the sterno-mastoid, emp-
tied into the subelavian near its usual point of junction. This case would certainly have presented great difficulties in the operation of tracheotomy, inasmuch as, irrespective of the large communicating branch between them, the vessels were unusually large and were little more than the eighth of an inch apart at the point of junction by the cross trunk.

In another subject, the external jugular rien, after taking its usual course ta the outer edge of the sterno-mastoid proceeded outwards and crossing superficially to the clavicle emptied into the axillary, by perforating the costo-coracoid membrane in common with the ceptalic vein. This vessel crossed the clavicle over its most vulnerable spot, and would, without doubt, have suffered laceration in an ordinary fracture of the bone.

The next most striking anomaly, was that of the radial and utnar arteries, the latter especially. The ulnar normally occupies a deep position in the upper third of the bone, being there covered by a thick layer of muscles; in the case before us, however, the division of the brachial occurred opposite the incertion of the coraco-brachialis into the humerus, and the ulnar artery proceedel over the layer of muscles arising from the inner condyle, covered only by ordinary integument and the aponeurosis of the arm. The course was frrst along the median line, to above the middle of the fore-arm; it then curved gradually towards its inner edge, and reached its normal position on the annular higament, to which spot the ulnar nerve was unaccompanied by any vessel. The space at the bend of the elbow was in this case completely obliterated by the high origin of the pronator teres, as already noticed. The radial artery supplied the iatcrosseous vessel.

The following vesse 25 were noticed, as differing from the usual mode of origin and in size; viz.: the inferior mesenteric and right renal The former of these sprung immediately below the superior mesenteric. The right renal was remarked as the last vessel given off by the aorta, about an inch above its bifurcation.

Nothing musual was noticed with respect to the nervous system.

Ant. XXX.-A Case of Popliteal Aneurism cured by Ligature of the Femoral Artery. By Francis Cearke Mewburn, Surgeon, Drummondville, C.W.
Rrchard Close, stone-mason, aged 30 , of spare haiit, and apparently not very robust constitution, applied in February last for advice for a lameness of the right leg, and a swelling in the ham of the same. Has heen working at the building of the stone towers of the Qneenston Suspension Bridge, during the winter, and living near Brock's Monument on the Mountain, would be exposed to
much excrtion in passing and repassing, in heavy snows, frosts and thaws, on the rugged paths; "not conscious of any accident which caused the lameness, it came on by degrers like; has rubbed all sorts of stuff upon the parts, which might do some good" " On examination of the limb, an ancurisn of the popliteal artery was immediately detected, and the operation for tying the artery in the thigh recommended at once, the tumor being of considerable size and increasing. After a few days consideration, this was agreed to. We were asistal by our old friend Dr. Forbes, R.N., and two gentlemen from the other side, (Dr. Eady, of Lewiston, U. S., beiner detained elsewhere.) with Mr. James Thorburn, student, who kindly attended to the case afterwards, in assisting to keep up the temperature of the limb, \&tc. The patient was placed on a table, and the limb, in proper yith, the sartorias muscle was easily traced; a good incisiou, of sufficient length to give ample ronn to the operator, was made in the upper third of the thigh; the artery laid bare, and most carc fully dissected from the vein and nerve, in as small a space as pasilh to juss the aneurism needle and ligature under, the sartorius being held back by an assistant, with another curved needle; on tightuing the lizature, mot too tight, pulsation of the thmnere coased at once; the woind was then brourht together, and retained by sutures, \&c., and the patient removed to a bed on the floor, with his feet to a goon warm fire on the hearth, and the limb wrapped in folds of warm flanel. Chloroform having been promised, that he might sleep thron h the affuir, in blissful ignorance of pain, was applied, but the grallant fellow, an Irishman, declared, "it was smotheriny him mtirch, it was!" was thrown aside, he bearing the operation manfully. It should be stated, that previous to the commencement, a very careful exploration was made of the chest by the stethescope, as also of the abdomen by the hand, to ascertain if there were indications of aneurim in these parts; the writer having been present at an operation of the same disease, performed by the late Sir Astley Cooper, ferty years affo, in the theatre of St. Thomas' Hospital, London, when on the first incision being made, the man became suddenly faint, is d in a moment wias dead! I post mortem examination next day shewed a rupture of an aneurinm of the arch of the aorta, not previously asertained, and which gave way on the first touch of the knife! a lesson never forgut in after life! Union of the wound, to its whole extent nearly, soon took place, and in thirty days the ligature came away. The tumor rapidly decreased in size from the first day, is now entirely removed, and the patient able to resume his employment.

In the Medical Times of June last, is a review of a work by a Dublin sur reon, advocating the advantages of compressing the femoral artery, for the cure of popliteal aneurism, over the incision and ligature. This plan may answer very well in an hospital, where "means and appliances" are at hand, and no expense to the
surgeon; but in private practice, particularly in this province, it would be difficult and inconvenient: however, to those who dread the knife, compression offers perhaps a mure pleasant alternative, and no doubt wili be preferred.

Art. XXXI.-On the impartance and value of Arithmetic as appliew ti) Melicine. By Henay Melville, Mi.D. Contianed from No. 4. p. 147.
On resuming the consideration oi this interesting subject, I purpose reviewing the arguments adduced in favour of the numerical system, in : similar manner to that in which I stated those which are generally brought forward in opposition to it, in the first part of my communication. In doing this, I shall pursue the plan adopted by me in the first instanes, and make use of my authorities en masse, without reference to any individual statement or opinion, unless it should appear to require particular comment.

To meet the objection based on the doctrine of probabilities, it is asserted that even on subjects which are usually bronght within the operation of this law, the supposed simularity of events does not always exist, nor does the difference or variation observable in them admit of that strict numerical estimation upon which their value as data should depend, in the construction of the theory. This argument is thus ingenionsly illustrated. In throwing a die, and computing the probability of certain resuits, it is supposed that its six faces are perfectly and exactly equal in linear extent, and evenness of superficies; a supposition which can rarely, if ever, be correct, but is most frequently erronecus. Yet notwithstanding these defects of the materials, and the error of the bypothesis founded on their supposed exactitude, we shall find that the person who, from previous investigation of results, kenw that in throwing two dice, deuce-ace was a far more likely cast than double sixes, would have an immense advantage in his play over another who was entirely ignorant of this fact, for the great superiority of the probability would almost always counterbalance the inequality of the dice. It is therefore very possible, that a begimer unskilled in this doctrine of chances, might suppose each of these throws to be equally probable. The same error obtains with respect to medical facte and would appear to arise from the circumstance that in reasoning on a stated occurience, the entire weight is given to the vague and general impressions produced on the mind by certain peculiarities or characteristics of disease, rather than in computing the events in a large number of cases. This mistake has been made by some very distinguished physicians, who appear to have been completely deceived in many instances. It was stated by Corvisart that dilatation with thinning of the walls of the heart was common,
yet it is remarkable, that in the work in which this statement appears, only me case of this description is given. The same observation has been made by others also, yet in forty-five cases of diseases of the heart observed by M. Louis at La Clarité, during eight yaars, no instance of this condition was observed. Lemnec made a similar general statement with reference to ulcerations of the trachea, which he asserted to be very common in phitisis, but rare in those who were not the subjects ${ }^{c}$ tubercle. The statistical records of this disease, as compiled by M. Louis, shew the reverse to be more correct. Examples mighit easily be multiplied, but I consider these sufficient for the purpose of illustration. The truth is, that the more glaring such errors are, and the more important and startling the phenomena included, the more clearly do they ponvince us of the entirely uselessness of mere approximative results.

The question of the individuality of disease, is not the least impotant or interesting point which arises in the discussion, yet few I presume will be prepared to maintain the impossibiiity of nosolorical classification. If indeed every case of disease differed essentially in its characteristics from all others, the science of medicine would in reality be, but the momentary observation of divers. and ever-varying phenomena, and the practice of physic founded on the scientific theorems established by analogical reasoning would be attogether useless. Fortunately for our science, the study of ages and the labours of learned investigators have succeeded in establishing the fact, that in diseases there are certain well-defined characteristics peculiar to the several forms, shich enable and justify us in arranging them into separate groups; not only can we classify the diseases according to the general feattues which they present, but we can recognize in each, one or more distinctive peculiarities which invariably denote the existence of one form of disease. It is scarcely necessary perhaps that I should refer to the ease with which malignant, fatal, or remediable disease can be detected, when without the ken of naked vision, by the microscope, through whose aid we can distinguish the cancer cell, the altered blood globule, or the crystaline deposit whose character is more completely established by chemical science. Nor are the advantages of this mode of humerical investigation confined to the mere arrangement and classification of disease, the improvement of diagnosis, and the correction of prognosis, but it materially assists in enabling us to treat disease by certain general rules, in spite of the minute differences to be discovered in individual cases. Examples of this will readily suggest themselves to the mind of my reader; I will instance nevertheless the effects of quinine in ague, colchicum in goat, and sulphur in itch. The remarkable power exercised by these remedies over the diseases enumerated, in which they certainly attain nearly all the requirements of specifics, is
displayed in cases which differ very materially from each other. It is undeniable that in these riseases, instances will occur in which, from some peculiar complications either constitutional or pathological, these remedies would nut only be inadmissable and useless, but even positively injurious: as in the case of colchicum in gout, it would be most improper to administer this druy when there existed a highly inflamed or congested condition of the alimentary canal. But such exceptions rather tend to show the extreme danger of treating disease empirically, and the necessity which exists for using the greatest discrimination and juderment in the investigation of disease, and the formation of our diagnosis, and camot be fairly used to display any fallacy in the numerical method.

That the system is open to abuse and error, like every other plan of human arrangement, camot rationally be dinputed; but those who zealously and judiciously prosecute this mode of investigation, however startling and comprehensive the results which they obtain may be, are not justified in confining thernselves to general rules. The exceptions become the object of careful study and examination, and form the gromedwork of separate problems, to be worked out with the necessary clements and by sound reasoning and great reflection. Nor is it by limiting attention to the mere combination of units, by numerical expression simply, that the great and fundamental principles of the science can be eliminated; the whole mind must be given energetically to the details of facts; not alone to note the number of cases occurring of one generic form of disease, in a certain locality, and the casualties or results following its prevalence; but every circumstance must be strictiy considered, which is calculated to afford information not only on the pathogenesis, propess, duration and termination of epidemic, endemic and sporadic diseases, but also on the influences which have been obsurved to govern their treatment. In such an investigation, the principal points to be regarded are climate, constitution, natural, as well as depending upon hererlitary taint, habits, complication of diseases, and peculiar idiosyncrasies. So wide a feld of observation necessarily calls for a sub-division of labour for its proper cultivation, and hence we find the tendency manifested by $\mathrm{p}^{1} \mathrm{j}^{\text {siciar }}$ adopt one particular disease for study and remark.

It must be admitted, that in coiducting the calculations connected with this department of medical science, many mistakes occur from a variety of causes, but principally from omitting some of the elements of the problem. In order to render these remarks as complete as I can, I propose in the next part of my communication to consider briefly the sources of error or fallacy in the numerical method; previous to giving some of the most prominent condusions which have been arrived at by its aid.

## Arr. XXXII.-Cases af Anyeoleucitis or Barbados Leg, with remarks on the proballe Pathology of that Diseuse. By James Bovell, M.D.

Wr. Chase, ret. 53, a black native laborer, admitted into hospital 23 rd June, 1847, having a chronic ulcer on right leg, which is also affected with eliphantiasis; the ulcer is about the size of a dollar, has hard white raised edges, and red firm granulations in centreboth feet are deformed; the metatarsus being articulated on the tarsus at an angle of about 250 . He was ordered middle diet and a weak nitric acid lution for the ulcer. On the 11th July he was reported by the nurse as having been unwell for the last two days, and on questionith him it was found that from his great dislike to take medicine he concealed his ilmess which he said was of little consequence as he was long used to "the fever and agne." It was quite evident that he was very ill indeed, he had no sleep at any period of the night, but moned continually. Is now, at cight o'clock, a.m., lying on his back, with the bed clothes and blankets wrapt clusely round the throat, shivering with arue ; has vomited twice a quantity of yellow bile; has intense headache, eves heavy, watery, and the comjunctiva minutely injected. Mouth dry and clammy, pulse small hard 100 ; prays that his foot may not be touched, as the pain in the whole limb is excrutiating; he took a cup of hot tea at ten o'clock; he was drenched in peripiration which did not seem at all to diminish the heat of skin which was excessively great, and the pulse had become hard, full bomding: and 120 . On examining the limb, the whole frot, leg and thigh were swollen, hot, painful, and exquisitely tender; indeed the weight of the bed clothes could not be borne at all. The ulcerhas a glazed shining appearance; a hard tight string or cord is felt running along the inner side of the thigh, following the course of the femoral vessels and terminates in the inguinal ghands which are considerably enlarged, hard and tender; there is no tenderness of the abdomen, or any feeling of umeasiness in it; no pain or pressure of the stomach; complains much of thisst; tongue parched and dry; headache very great, and if he attempts to move his head, nausea is excited.

Ordered to have tepid fomentations to head.
R Mist. Camphor. ₹ ir. Vin. Antim. Tart. j iii. Liq. Ammon. Acet. ₹ss. Tæ. Hyoscyum. ${ }^{3} \mathrm{iij} . \mathrm{ft}$. mist.
A table spoonful every fourth hour.
12th. Has had no sleep, but talked to himself the whole night. The second dose of the medicine seemsed to sicken him, and he
vomited shortly after a quantity of green slimy bile, which gave some relief to his head, as he dues not now complain of much headache; experienced much comfort also from the tepid application. He says that his bowels feel not exactly sore or painful, but that he can with his hand tell where they lic. On pressing hirn along the course indicated, namely the colon, pain is not produced. He has had since yesterday evening, three loose evacuations; tongue slimy and evated white; body hot, extramities cold, pulse 102, wiry; conjunctiva yellow; heart's action tolerably strong; both sounds seem to maintain their relative proportions; no nausea at present. The ulcer still presents the shining appearance, and is quite dry.

> R Hydrg. submur. gr. iij.
> Pulv. Doveri. gr. v. ft. P.
> One every sixth hour.

Fomentation with Lotio Plumbi over the leg.
13th. Much worse; no sleep at all, but constant muttering delirium; cannot be prevailed upon to take either his medicine or arrow-root, pushes away a glass of wine handed to him, and which he had repeatedly asked for. Has not passed water. On introducing the catheter, about one pint of pale urine, free from the urinous smell, was drawn off; it did not coagulate by heat; bowels sott and comfortable to the feel; eyes suffused and conjunctiva yellow. Tongue dry and thickly coated with a brown fur ; teeth covered with sordes. Pupils of the eyes dilated and not contracting on being turned to light.

A blister to nape and back of head.
To have wine if he can be made to take it.
Arrow root injections with wine.
Eight o'clock, evening.-No sleep; constant muttering ; when roused answers questions, but soon again appears to be unconscious of our presence; bladder again full; passed the catheter with some little delay in consequence of spasm, and drear off about half- 2 -pint of pale urine. Pulse 120 , small and weak; has just beeu forced to take a draught of decot. senega. cart. ammon. ; has only taken one oz. of wine; has had an arrow-root injection and retained it for some time.

14th. No sleep; temperature of the body below the naturl heat; pulse 136 ; has taken three doses of the Senega and ammonia, and two glasses of wine in arrow root. Still lies in the same stupid state, but on attempting to move the leg he moans piteously. The ulcer is still dry, notwithstanding tie application of carrot poultice, and the whole ley tight and shining; but it is remark. able that the increase of size of the limb is by no means ss great as is usually the case, and in the calf of the leg, the hard
cordy feel is perceived. Bowels moved three times, the evacuations being passed in the bed; urine passed without the use of catheter. Pupils much dilated; teeth and lips covered with sordes; body generally cold, except the affected leg which is warm; refuses to take any thing but cold water. The blister has risen well and discharged freely.

Eight o'clock evering.-Is sinking fast ; died at 10 w'clock.
Post inortem eight iuours after denth. The body was quite fresh, and free from decomposition. On opening the chest, no trace of disease was discoverable. The stomach was empty and contracted on itself; there were no appearances of recent disease; the liver of natural size; the gall-bladder was filled with green thick bile; the intestines were healthy; the peritoneum dry; the vena cava and yeins of the abdomen were full of blood, and exhibited no traces of disease. The thoracic duct in its whole extent was healhy. A longitudinal incision was made through the integuments of the thing, from pouparts ligament to the knee, and from thence to the extremity of the toes The skin being reflected back, several of the superficial vessels were divided, many of which gave out pus of a good yellow straw-colour ; some of the pus points were in the substance of the skin. The veins of the limb were full, and of a healthy blue colour. The inguinal glands, which were entarged to the size of a goose egg, consisted of two large lobes and four smaller ones, and on their surface shewed ramified lines of a yellow colour, from the middle and larger lobe, and accompanied by several veins; a large lymphatic vessel proceeded along the inner part of the thigh towards the condyle of the femur; this vesse lwas filled with pus; another large ly mphatic vessel entered the border of the inferior lobe of the glam, also filled vith pus; into this one we succeeded in throwing some quick-silver, but the vessel having dilated into a pouch soon after entering we gland, the mercury ruptured the coats, and escaped beneath the envelope; the deepseated lymphatics were in the same state. In no one instance did the veins exbibit any appearances of disease, and the arteries certainly seemed equally free from morbid appearances. There was evidence of previous attacks of glandular disease, but there was very little recently effused fluid in the cellular tissue.

Remanks.-As a great deal of misconception exists as to the real nature of the disease, it becomes a matter of importance to place on record a description of the morbid appearances discoverable in the acute stage of so formidable a malady, especially since Some very distinguished pathologists have been content to draw candusions in reference to its pathology from dissections of very direnic cases. I shall endeavour to give a brief history of the sfrmpoms and detail the post mortem appearances found in the bifies of these persons who died of the disease affecting the parts within the abdomen.

The patient without any premonitory indisposition is seized sudden! y with a disposition to faint, and severe ague followed by fushing of the face, hot, dry, skin, headache (frequentiy of very intense character,) quick fall pulse, nausea and vomiting, after which a profuse sweat breaks o't, attended with some relief of the general symptoms. Locally, the glands of the groin enlarge to the size of a hens eyr, are hot and painful to the touch, and proceeding from them down the thigh, and following the course of the femoral resseh is a red line of inflammation, having a tense cord like feel; the slightest motion of the limb gives great torture, and the patient complains of a gnawing burning pain in the entire limb. The leg quienly swells, sumetimes to double its natural size, when there is generally some cessation of the pain and the limb can be moved without any annoyance. In a first attack, if absolute rest be maintained some time after the acute stage has parsed over the swelling gradually disappears and the leg bears no trace of mischief, but unfortunately like the gouty habit, the sufferer from glandulat disease camnot colculate or the continuance of health for a day, and afier cack attach the limb becones more and more enlarged until it prosents that unsighty appearance under which it is known in Europe: and all over the world as "Burbados Leg." "The tropical bucnemia" observes Mason Good, "like the puerperal, is occasioned by an effu-ion of coagulable lymph into the cellular membrane under the skin of the part affected, in consequence of inflummation of the lymphatics of the lower limb, and especially of the inguinal glands, the cause of which is at present quite unknown." The commentary which Mr. Samuel Cooper makes on this passages is very infelicitous, he says, "The doctrine that the disease essentially consists in an infiammation of lymphatic vessels and glands, may be said now to be on ths decline. In fact: we commonly see these organs inflamen, both in warm and cold climates, without any consequences resembling bucnemia Topica, Dr. Graves notices various circumstanes amounting very nearly to a complete refutation of the opinion. Thus he particularly adverts to a prossage in Dr. Hillary's work, from which it appears that the disease sometimes attacks the arns, seaip, ears, back of the neck and loins, \&o. Enormous chionic growhs of the integuments and cellular membrane sometimes affect the arm, penis and scrotum; even in this country the disease closely resembling the Barbados leg, and examples of which had been seen by Mr. Chevalier. It is obvious as Dr. Greaves has remarked, that in such parts the swelling would have arisen merely from glanduiar inflammation; aud as from variens facts which he has brought forward, it is proved that inflammation of the skin and subjacent cellular tissue is in itedl capable of producing a swelling in all other respects similar of

Barbados leg, he is inclined to think that a more accurate investigation would have induced Dr. Good to modify the opinion he has delivered on the same subject."

To be continued.

Arr. XXXIII.-Amauresis, attended wìh anz inabitity to cistinguislt colour. By S. J. Stratrond, M.R.C.S.Eng.
Tue following case may perhaps be considered worthy of insertion in the Journal, and possibly prove interesting to namerous individuals, who are acquainted with the subjeet of it.

Paul Bishop, aged forty-five, a native of Lower Canada, has livid in foronto since the year 1824; is by trade a blacksmith; was very prosperous in business until the year 1849, when from a reverse of fortune he fell into habits of intemperance, which he carried to great excess. From being a master workman, he was reduced to a day labourer, and about a year ago was working at Mr. Armstrong's foundry in this city. He was drinking freely, and working hard until a very late hour. He got his feet wet going home through the snow on a Friday night. On Saturday morning, his wife went to his bed and called him, asking if he did not intend to get up to-day: he complained that she was caling him before daylight: she told him it was quite light, and eight o'cluck, which greatly amazed bia, and to confirm the truth of her assertion, the wife brought him a lighted eandle. To show that she was correct, she placed his fringer: on the eandro, and he gradually moved them upwards until they came to the flame, and when he felt this burn lim, he was convinced that he was blind. The blindness that he experienced was tike the darkness of night, in which he could indistinctly obscrve some of the objects around him, but not tell their shape or nature. He was led up to Dr. King, who treated him for some time, and gradually much of his sight was restored to him; indeed when he left Dr. King, he could see nearly as well as he does at the present time. He applied to Dr. Cadwell, but did not get any further relief, and this genteman advised him to apply to me. His habits of intoxication were carried to such ais extent, that he got Delirium Tremens, and was treated by Dr. Morrison, about six months since. After he recovercd from this disease, he promised to reform his habits, and declares that he has not drank spirituous liquors since that period.

At the present time he complains of an indistinctness of rision, is very near-sighted, is not ahle to comprehend persons or things at a short distance, but when he looks close, can distinguish the most minute objects. He has nietation? of the eyelids, and seme degree of intolerance of hight, especially when the sun shines brightly: then the wooden pavement is so disagreeable to him, that
he prefers walking in the middle of the road. When he works at the blacksmith's forge, the sparks dazzle his eyes, and he complains that he sces the fire long after he has ceased to look at it, and his eyes are always worse after he has been at work, or after he has been drinking spirits or coffee. He often complains of pain and fulness in the head and temples, says that he can hear a beating in his head, and fancies that he can see it in his eyes. At present he can distinguish the most minute object, but cannot tell the colour of most of them. He could see very minute lines or dots in a book, but could not distinguish the colour of a red flower presented to him. Two objects, a piece of red sealing-wax, and a green dozzle (used in drawing), were shown to him in such a manner that he could not know them from their shape. He declared the green colour to be black, and the red drab or grey. On showing him a painting of a red flower, he called it yellow; but did he know the object from its shape, or if he had been previously told the colour, he apparently knew it again from recollection. On being shown the solar spectrum, he could ieadily distinguish the blue and the green, and seemed to understand the yellow, but could not name any of the other tints, when red ine called it yellow, grey, or buff, according to the circumstances. After he had been looking at any colour for a short time, it seemed to distress his eyes, and gave him a dazzling sensation, which was especially marked when he was called to look at a redobject. He cans ot see so well with the right as with the left eye, in consequence of an accident which happened to him a long while ago. He also complained of great burning in his feet; at the centre of the heel, he says he feels a great pain, that suddenly starts up the leys, and travels up the spine, until it influences the head, when ii causes great pain and sickness of stomach, until he can go to sleep, when he gets better. He often awakes during che night with this epileptic aura, and it is especially worse after drinking, while it has greatly lessened since he has discontinued the abuse of spirituous liquors. I recommended him a seton in the nape of the neck, and a course of alterative medicines, with strict attention to his dict. I tried him with the glass used by near-sighted persons, but he did not find any benefit from it, but the slightest convex lens of a weaksighted person, greatly improved his vision, and enabled him to see at a considerane distance.

Many congenital cases of this description of disease are on record, in which the inability to distinguish colour has been traced as occurring in several successive generations, but very few cases have been noted, in which the want of true perception of colour has been dependent upon idiopathic disease. In the case above described, and in a vast majority of those recorded, the patients could bear the influence and understand the impression made by the blue rays of the solar spectrum, but as these tended towards the red, they
found more or less difficulty in distinguishing the true tint, and of bearing their impression upon the retina. The dissected solar ray, consisting of blue, green, yellow, orange and red, possess a greater or less power of refraction, according to the above order in the spectrum, and each secm to influence the retina in intensity agreeable to this refractive power. The power of absorbing all the rays of light except those on which the colour of an object depends, is universal throngh nature; so their reflection to the eye of the observer is admitted to be the cause of individual colour in the different ohjects around us, and the influence these impress upon our sensen, are more or less ajpecthle, acending to their position in the spectrum. The deep blue sky, and the universal green of the regetable world, impress our semes with pleasurable emotions, give a reliof to the eye and a southing influence to the mind, which cannot he produced by the less reframable tints of the spectrum; if these were more generally deseribed, they would often prove a source of irritation to the eje, and an anoyance to the mind. This irritating characteristic of the red ray, appears to me to be the canse that this patient could not bear its dazzling influence, or comprehend the colour. The diseare on which this peculiar characteristic is dependent, was evidently in the retina, and I suspect depends upon a certain amount of hyperemia in the vascular structure of that tunie, and that this vaceular or temporary hyperremia is especially excited by the more irritating red ray, while the blue ray possessing that character in a much less degree, does not call forth the deleterioun influence, but in a ratio subordinate to its position in the cpectrum. When this plethora is excited, the distended vensels prevent the influence of the rats of hight from infringing on the nervoumatter of the retina, but as the iritating canse is removed, the racular plethora again rapidly subsides, and I approhend hat the suppoed colour of each whect will be more or less approximated to the truth, according to the intensity of the varcular dinturbatuce. That such was particularly the case in this instance, is abo bone out by the pain, irritation and dazaing sensation produced by the sparks at the blacksmith's forge, likewise hy the evident irritelility of the whole organ, which was starcely able to bear the sun light at mid-day, as shown by the constant winking, and a desire to cover the eyes; while the clouded sun or evening light did not produce the same inconvenience.

In the first onset of this disease, the plethoric condition of the rascular structure of the retina was angmented in all probability to positive congention, cauning the amaurotic influence so graphically deseribed by the poor man, and coavinces me that this complaint was, from the commencement, de pendent upun this condition, richer than upon disease of the nervous matter of the retina, and Hat the inability to distinguish individual colvurs was caused"by
a certain improvement in the tone of those vessels, whereby a mure normal circulation was occasionally deranged by a transitory excitement of the vascular apparatus. That the eye was fully ableto distinguish the most minute objects, was perfectly evident, and a demonstration that the nervous matter of the retima was only influenced more or less positively by the vascular hypersemia. Eren at the worst stage, the powar of distinguishing form was not totally lost, and in the latter stages was perfectly regained, while colour could not be truly appreciated.

This case would appear to stand prominently forwad, as illustrating the advantages of a knowledge of minute anatomy to the surgeon; and forcibly points out the danger of quackery in opthatmic diseases, while it also demonstrates that the distinction of the retina into several tissues is fuunded upon fact, and that cach of them may be more or less individually submitted to the influence of disease.

## Keviews.

"Framimation of the Sap of the sugar Maple Tree, the Acer Saccharinnm of Liancus, with an account of the preparation of the Sugnr, By George D. Gibi, M.D., Lecfurer on the Iustitules of Mreficine, St, Lanvence School of Medicine, Montreal; Homorary Member Alddisonian Literary Siciely of Montreal; Correstenctidy Member Literary and Historical Socichy of Quebec, §c. yc."
Ir is certainly quite refreshing to meet, amidst the "stern realities" of purely professional reading, an occasional dash at something apart from the ordinary rontine of professional topics; to see the mind which in its carlier training for the more severe studies, had also acquired a decided taste for, if such a phrase so applied be admissable, some of the collateral sciences, a knowledge of which is considered absolutely indispensable to a perfectly educated physician. Such recreation, for such it undoubtedly is both to the zealous student of scientific medisine, and to those who benefit by his labour and learn to enjoy its fruits, braces the mind and renovates its vigour, as change of climate and scene affect the corporeal strength and constitutional tore. By it the intellect Lecomes refined and expanded, a desire for knowledge is engendered, and we are tanght to love science for its own beauty and to respect it for the power which its acquisition confers.

We rejoice therefore to sec one among ourselves leaving the ordinary beaten track, and cultivating an acquaintance with nature and the appliances of art, in a field within our daily observationampng the productions peculiar to our country. Such is the course adopted by the author of the paper now under revices, and
he has been happy in the choice of his suigject; maple sugar being an article of extensive consumption and domestic manufacture, which if properly encouraged might probably become a commercial stiple of considerable importance, affords ample se-pe for investipation. Comparatively little, however, is yet known either of the extent to which its manufacture can be carried or its intrinsic value; and certainly little or no effort has hitherto been made to improve the process by which it is procured, or to bring its claims under general notiee and consideration. To Dr. Gibh, therefore, the publie owes some gratitude, for the attempt now made to effect these desirable oljecets. He has brought to bear on his subject a mind fully imbued with its interest and importance, and dioplays in the mode of his inventigation an amount of chemical knowledge and scientific research highly gratifying to perceive in one who, we presume, like most practitioners in this country must, for the greater portion of his time, be employed in the more active and practical discharge of his professional duties. We confess, however, our disappointment zander these circumstances that he does not give a more complete amalysis of the sap, with which he appears to have exprerimented frequently and successfully, and not satisfied himelf with the generalised statement that "the residue obtained by exaporation was almost entirely pure sugar, and contuinod traces of ('llurides, plusphutes and sulphutrs." What were the bases of these salts, and what their relative quantities and proportions? A strietly seientifie analy is should be quantitive and qualitative, and the resalts shomb be stated with numurical precision. However, as he hat promised a continuation of his remarke, we may yet hope to see this hiatus supplied. We solicit also a somewhat more extended notice of the botanical characters of the best trees; their labits and localities; and some information on the interesting phenomena of the time and mode of budding and foliation and the influences which these procemes exert over the characters of the sap. A more minute description of their topographical distribution and the best mode of propagation would also be desirable.

Had our author coafined himself to these and other legitimate peints of his subject, we could cheerfully have haid our pen down without writing a single word more, but we should forfeit our character for candid criticism, if we passed over without remark the invidious comyarison he institutes between Maple and Muscovato or Cane sugar. It is wrll to endeavour to establinh a fact-the excellence of maple sugar to wit-by lugieal deductions from correct premises properly stated; but it is unscientific, if not something more inexcusable, to :attempt io raise a character for a particular thing, person or event upon the defects real or apparent of another. And it becomes mont ridiculo as to do this on erroneous grounds, and with a want of proper knowledge of the subject of comparison,

We do not suppose that our author meant to imply, that as a commercial or fiscal staple, Maple is to be compared to Cane Sugar, and therefore we leave the question of the comparative productiveness of the two plants alone, and proceed to consider the question of the relative saccharine properties of the sup and juice. We find it stated in general terms "that a bucket full of saip is estimated to yield over a half pound of sugar;" Mr. Campbell states that the sap from an old tree that has heen tapped eighteen or twenty years, will yield upwards of a pound a bucket?" and in an explanatory note we are told diat "an ordinary bucket contain two and a half to three gallons." It would occupy more space than we can well afford, to give in detal the several tables which have been founded on this point, by the investigation of many writers; nor indeed have we at hand the most recent work which has been written on the suhject for reference; but we can speak from observation when we say, that a ton of sugar has frequently been made from 800 gallons of cane juice, and that 1500 gallons is the common average quantity required. The comparison founded upon these general statements then may be made to represent the relative yielding qualities of the sap and juice thus:-

> SAp, 2 galls. to $1 \mathrm{lb} .=6000$ galls. to 1 ton weight.
> Juice, 1500 galls. to 1 ton weight $=5 \frac{1 \mathrm{lbs} \text { to } .3 \text { gall. }}{}$

But the most amusing portion of our author's remarks, and which admits of some question, is that in which he describes the experiments performed with the view to ascertain the relative purity of the two sugars. He tells us, (page 4,)
"Some brown Muscuvado sugar was placed at the bettom of a wine-glass, which was then filled with water, and allowed to stand 24 hours witheut disturbance; a scum formed on the surface.
"Sume Maple Sugur a year old, was produced and treated in the same way; no scmm formed on the surface.

Now it is worthy of observation, with respeet to these statements, first-that the age of the maple sugar is given, and not that of the Muscovado, which might have been, for ought we know to the contrary, twenty years old. Secomdly, it is not stated whether the vessels were cevered or not, a point of some importance, as the superior saccharine quality may easily account ior the presence of the insects which we are told were discernable in the scum of the Musco:ado.
"The fluid and scum of the Muscovado were examined under the nicroscope, when large numbers of dead acuri or sugar insects were found, many trapments of their bodies, numerous ova and young acari, and sporules of the fugar fungus in vast abundance; a few fraguments of the sugar cane were present, showing the cells of the parenchyma, and a very few of the woody tibres.
"I he fluid of the Maple Sugar was csamined, and nothing whatever mas discovered worthy of observation.

Thirdly. The experiment was not complete, the comparison was not a fair one. inasmuch as it was made between "Maple Suyar," without reference to quality, and "Browi Liuscovado," which, as appears from Dr. Gibbs' admission, in the following words, is of inferior quality
"All the brown Mucnvado sugars contain this noxious insert, but the colourless Muscovados, are quite free from it."

We leave the subject of the "Acari"? or Suga: Insects, for future remark, thinking as we do that Dr. Gibb is mistaken both with reference to the insect itself, and also as to its source when found in the scum.

A few words more will suffice to shew that the Doctor has written with a prejudice strongly in favour of his Maple product.
"Independently of the presence of the sugar insect, Maple sugar is not in any ray inferior to cane sugar, but is intinitely superior in many respects. It is prepared at a time of the year when neither insects nor the pollen of plants exist to vitiate it, as is the case with common cane sugar. Its taste is superior to that of cane sugar." Chacmu a son gout! "It possesses a delicious flavour when well-made, and it sweetens equally as vell. It can be eaten in a pure stat, for a considerable time without any unpleasant consequence, which is the reverse with cane sugar, undoubtedly one of the source' ' : worms in the body.;

Credat Judaeus! Has the Doctor ever resided in a cane-sugar growing country and witnessed the effect produced upon the population during the Crop season? We trow not. The white and soumd teeth, proverbial in the race employed in its cultivation and manufacture, the plump figures and sleek, healthy-looking skins, which are at that time observable, is matter of common remark; nor do we believe that entozoa are more common among the inhabitants of those countries, who during nearly six months of the year live almost entirely on the cane and its products, than we have found them in Canada.

We have already extended these remarks much beyond our prescribed limits, and must therefore close this article, but not without repeating our hope that Dr. Gibb will make this interesting tree the subject of more extended observation and enquiry.

A Comparative View of the Climate of Upper Canada, consideral in its influence upon Agriculture. By Henry Youle Hind, Lecturer in Chemistry and Natural Pliilosophy at the Provincial Normal School, pp. 38. Toronto ; Brever and McPıail, 1851.
Is this interesting and timely publication, Mr. Hiod has addressed himself to the task of proving by facts and firgures, a truth which we are happy to believe is gradually fixing itself pretty firmly in the public mind of this Colony, and which, we mary hope, will not long remain a doubtful one to that of the mothrs country. The
truth, namely, that Upper Canada has been blessed thy nature with advantages of seographical position and of climate, which leave her little cause to enry any other part of this eontinent. That with a soil of unsurpassed fertility, she is surounded with those physieal intluences which are best adapted to bring its fruits to pertection, and that whether we look cantward or westward we find a less favorable concurrence of all the circumbtances upon which the welfare of an agricultural peprulation depends.

> "Such is the patrints boast, where'or we roam, His first, best country ever is at home."

Long may it be so! Not every patriot, however, has so good gromads for his preference as we are furnshed with in this promphlet. Indeed, the author expressly dinclaims the weakeres of being actuated by any such motive-we mut therefore endeavour to convey in a short compass an idea of his actual proofs.

The true relations of orgraized beings to inanimate naturethe true relations of life and develop, ment, whether animal or vegetable, to those physical circumstances which we can weigh, guage, or measure by our instruments, form a branch of science which is yet in its infancy, and to which, meteorology in its ordinary sense is but the introduction; nevertheless, common sense tells the most unlettered farmer that such relations do exist. That to every cultivated grain or plant there is a time and season, when heat and cold, moisture or dryness, sumshine or shower, are in their turn the influences required by its constitution, and best fitted to forward its progress to maturity. $B_{5}$ the relative proportions in which these circumstances occur, are mainly governed those diversities of production which characterize different regions of the globe, and the better we are aequainted with them, the better knowledge shall we have of the productive capabilities of every region. In the pamphlet before us, which is prepared with great care, and condenses irito a small compass the results of very extencive observations, the author endeavours to show that the climate of Western Canada differs from that of those of the United States, which lie north of the forty-first parallel in the following important particulars:-
"Ist. In milduess, as exhibited by comparatively high winter and low summer temperatures, and in the abscnce of great extremes of temperature.
" 2 nd . In adaptation to the growth of certain cereal and for age crops.
" 3rd. In the uniformity of the distribution of rain over the agricultural months.
"4th. In the humidity of the atmosphere, which, although considerably less than that of a truly maritme climate, is greater than that of localities sittated at a distance from the Lakes.
" 5 th. In comparetive immunity from spring frosts and summer droughts.
" 6 th . In a very favourable distribution of clear and cloudy day, for the purposes of agriculture ; and in the distribution of rain over many days.
" 7 th. In its salubrity.

It differs again, favourably, from that of Great Britain and Ireland, in the following particulars:-
" Ist. In high summer means of temperature.
" 2nd. In its comparative dryuens.
" 3 ril. In the serenity of the sky."
Wach of these assertions is proved by tabular statements, embolying the results of observations at a great number of tations. The anthor refers, however, chiefly to those admirably complete tables comstructed at H. M. Observatory at Toronto, anci also at Muncatine in Iowa, a place situated on the Mississipi, ia lat. $41^{2}$ $30^{\prime}$ or there houts; and we have been muchatruck widi the chear and admirable manner in which he seleets the data necesuary for astablinhing one point after another. The general result of the comparivon are extremely various and interesting, particularly as requads the winter temperature. But our limits will not permit the insertion of more than the following table, the obiece of which is to show the greater mildness and uniformity of the climate of 'loronto tham that of phaces in correqponding latitudes on either side. Fort Preble, on the Athantic const, lat. $43: 38$ den., and Fort $A$ rmstrong, III. lat. 41 deg. $2 x$ min. being selected for the comparion. :-

|  | Lat. $43 \cdot 38$ deg. Fort Preble, East of the Lakes. $\circ$ | Lat. 4339 deg . Toronto, On the Lakes. 0 | Lst. $41 \div 8$ deg. Fort Armstrong, West of Lakes. 0 |
| :---: | :---: | :---: | :---: |
| January . | 2182 | 24.67 | 2378 |
| February .............. | 24.94 | 2414 | $26 \div 8$ |
| Murch ................. | 33.41 | 3083 | 3747 |
| April .................. | 4544 | 4217 | $51 \times 0$ |
| May ................... | 54.49 | 51.84 | 6383 |
| June ................... | $64 \cdot 29$ | $61 \cdot 42$ | 73:59 |
| July ... ................ | 69.71 | 66.54 | 7792 |
| August ........... ..... | $67 \cdot 19$ | 6576 | 7621 |
| September ............. | 59.00 | 5711 | 6:37 |
| October .............. | 49.28 | 44.50 | 5458 |
| November . . ......... | $38 \cdot 45$ | 3657 | 39.82 |
| December............. | 31.32 | $27 \cdot 18$ | 3053 |
| Mean............ | 46.67 | $44 \cdot 39$ | 5164 |

Fort Armstrong is more than two degrees south of Toronto, and yet, a Mr. Hind remarks, the mean temperature of January is no arly a degree lowet than at Toronto, while the mean temperature of the hotest month is upsards of eleven degrees higher than at the last-named place, situated on the Lakes. Fort Preble, to the East, in the same latitude as Toronto, has a mean $i \in$ mperature for January nearly three degrees lower than Toronto, and for July upwards of three degrees highes.

Mr. Hind traces the peculiarity of the climate of Western Canada to the ameliorating influence of the great lakes; and this part of his work, is the best and most complete illustration of hat theory with which we are acquainted; it is, as far as it goes, an
example of meterological science, as distinguished from the mere work of an observer, which cannot but add to his deserved reputation, and which we heartily commend for imitation to the keeper of meteorological registers. We have called it a timply publication. In the last session but one of the Provincial Parliament, a clause was introlluced into a bill for the regulation of Grammar Schools in Upper Canada (by the Hon. Mr. Hincks,) which provided ihat for the future erertain meteorolorical obervations should be made at all of them upon a systematic plan, as is now done in the States of New York, Massachussett, Ohio, and we believe some others. The value and importance of the materials thus accumulated in the course of a few years, net only in respece to arriculture, but to vital or medical statistics, and many industrial interests, can harlly be exagyerated; but the arangement has been arrested by the failure of that bill to pass into law. The work of Mr. Hind, furnishes additional proofs il such are needed, both of the value of such records and of the field that is still open to investigation, and looking forward to the renumption of the design, we regard this pamphlet as peculiarly well-timed and deserving of attention.

## TORONTO, SEPTEMBER 15, 18.51.

## THE FATE OF THE BLLL.

The public newspapers will have prepared our readers for the fact which we now ammunce, that "The Bill'" has mot passed. Atter having been permitted to remain for a long period of time on the orders of the day, it was fimally bromstander disension in committee the night previous to the morning of the prorogation, by a hard struggle on the part of its supporters, anid a scene which we abstain from deseribing or characterising. It was ordered to be engrossed, and read a third time the following day. Amin the rusu of work to be accomplisised on that moming, every measure in a similar state of furnardness was squerzed through, with the one solitary execption. Nearly every body of men who songht for corporate rights foom the Lileral Le ginlature have obtained them, exeept those whose welfare is so intimately associated with the personal interests of all classes of the community, and with the general well being of society. We approach the consideration of this subject with feeliars of much disapeontment, mingied with no small share of painful resret, for ous convietions lead us to the belief that this failure to ohtain what is so carnestly required hy the large majority on the profession, has been brought about as much by the successful intrigue of enemics within the camp, as by
the penly avowred hostility of a few who differed on minor points from the measure itself, and the want of proper management on the part of the gertieman who had charge of it.

It is however bootless to utter vain regrets. This is the third unsuecessful effort which has been made to ineorporate the Medieal Profesion of Upper Canada, io place it upon the same footing it holds in the Lower Province. It is unhesitatingly acknowledged on all sides, that such a measure would do much to raise the sta:dard of the I'rofession, to secure the confidence of the public, and to mablish the degree of civilization of the comutry; and yet when the opportunity offers for accomplishing so desirable an object, the Parliamentary reprecentatives of those holding this opinion as unhesitatingly throw obstacles in the way of its fulfilment. We simply ask those who arree with us in the views we have expressed while the fate of this bill was pending, whether they will throw away their votes at the ensuing election. As it appears that personal influence, exerted through the exercise of the elective frauchise, is the only means open to us to secure onr just rights-our acknowledged privileges, let every one who earnestly desires the prosperity of that profession by the prosecution of which he sceks to obtain position, fame, wealth, nay the very means of subsistence for himself and his household, consider welf before he makes choice of a candidate. It may be very well for those not so deeply affected by this question as we are, to sneer at a declaration of this kind, and to say that we are a small portion of the people, whose interests must merce into the gencral progress of the comary, and cannot be indivikualized for our benefit. But we do not find this to be the case with other equally small and certainly less important integrant parts of the community. Look at the list of Aets passed during the session of the Parliament just conchuded, and the reverse will be found to obtain. Moreover, we know that we are living in a free country under an enlightened system of govemment, if 1 roproly carrind ont; and we find that the fundamental principle of that Govemment is, that the rights of individuals must be sustained and protected-one of the chief beauties of the constitation to be, that individuals, cither separately or collectively,may seek for statutary privileges to enable them to carry out successfully the proper working of enterprise in their several vocations; provided those privileges do not militate against the integrity of the Government and the prosperity of the people. When we feel that the privileges sought for by us are thove best calculated to ensure the common weal, we ought not to shrink from performing the great duty we owe to ourselves and to the comatry, and seek by every legitimate means in our power, to secure the return to Parlament of those men only who will see that justice is dealt to all with a fair and impartial hand.

We do not believe that we are the "insignificant portion of the
people" which we have been called in the legislative halls-we din net believe that we possess no influence ; on the contrary, we feel convinced, that we have only to throw the wright of the influence we can exercise, fomded upon our education and the peculiar nature of the relationship existing between us and the commanity, into the scale, and we should be able to timn the tide of any election. Much as we dislike the unsatisfying nature of general politics, and keenly alive as weare to the injury which generally ensues to the members of our Profession who dablie in them, we comsel every one now to le busy on behalf of himself and the interests of his family. Having made ap your minds as to the man who mont aceords with your sentiments on general matters, and who on the subject of our corporate rights thinks and will act correctly, ikentify yourselves with his succes, and leave no stone untmat to secure his clection. One strugele more must be made, and hat early in the next sessimn. In the mean time we shall use our embavours unceatindy, to oltain a common professional opinion and hy the comeerted labour of all, to mature a measure calculated to promote the ends in riew.

## THE " DRHTH AVERICAN MEHCAL AND PHYSCAL JOTRXAL."

It has now become almost a stereotypol expression of disagreement with shaknpere's "What's in a name?" to say, that there reall: is somethine in a specific loconymic-some virtue apart from the other characterintics which a man, a horse, an ass, or a bouk possew, derivable from the phace of their habitation, nativity or manufacture. We have been petulantly reminded by our cotemparary in Wontreal, that we were guilty of a breach of editorial courtesy in not giving him his proper title in our last number. We are quite ready to make the "am mele homonde" by statimes that it was an aceidental oversisht, a carcless forgetalness, asythine that our brother chip may require us to say, short of its being an intentional slight. We would not willingly injure the watp which is now buzzing so pertancionsly abont our ears, in spite of the annoyance it creates in this meding weather.

We thank our brother for his information reopecting the Medical Literature of Lower Canada. We regret to find that of three Journats, one should have fallen a vietim to such dire misfortune as "inamition." Of the other tw", no statement is siven as to the cause of their death, but simply a record of the fact. The survivor of these seems now to be labouring under incipient symptoms of premature decay-symptom of a meiancholy edar racter-whose chief pecaliarity is a ypirit of frowardness, generdly considered pathornomonic of cerebral disturbance or approaching disolution. "We desire to be called by no uther name than thai which properly (hoving submitted to Leccal baptism) belongs to uis
and if the U. C. Journal considers that it comports not with its intersts to do so, we would feel obliged if it would not allude to us at all." 'This little passage puts usin mind of the mursory amedote of the pet of the family, who rejoicing in the name of Siman, was always exceedingly indignant at being called "Saler" hy her brothers and sisters. Admitting that we had intentionally (inhich we entirely diselaim) designated onr comemporary the "Lower Camadian Journal," we maintain that we should by such a course have identified him with the great bedy of his profensional brethren in that section of the Provence, for whose interests he has certainly manfully and sucessfully contonded; and we must express our surprise at funding se experineed a journalist exhibiting such puerile feeling at a circum-tance, which on reflection le munt see is not calculated to injure either the character or wefulnesi of his publication.

More we might say in reference to matters comected with the intersts of both Journals, which ur have always considered as intinately comnected; but in obedience to the request contained in the later part of the above quotation, we shall refrain.

We copy from the "Woodstock British Imerican" the following full report of an inquest recently held in thar neighbominood, becanse the cireumatarees connected with the cise ander inventsgation pussess peculiar interest for our professional readers, and are creating much sensation throughout the commuaity.

An iuquest was held at Stupherson's hurel, in East Osford, on Tuenday last, before Dis. Patterson, Coroncr, on view of the body of A ai Davis, a persoin rho had been employed as foreman in the Eastwod Stean Sav Minl. and who came to his death in consequenee of a puncture, stetived from a mail, in the sole of his foot. Mir. Davis did not die inmediately after basing trod upon the fatal meil; and owing to this circumstance, an inguest would have been rondered athogether unnecessary, had not ereorts been freely cirrulated to the offer that the deceased received improper treatment from Dr. Turguand, who, as will be seen from the subjuised testimony, was only called upon to visit the deceard when all iope of saving his life had vanihed. Dr. Mt, uand stated that, in elder to windiente his professional character from the foul aspersions which had ben cart ugon it, he was conpelled to call fir an investigation of the mather, but that he disclaimed any intention of injuriug Mr. Scott, or of prosecuting the matter turther than was absolutely neeessary for seli-defence.

The deceased was attended, from thr tine that he met nith the accident, yp tw Dh. Turgandes first visit, by Mr. Scutt of Burford, who, although tut a itensel practitioner, appears to hase emjoyed the confidence of the pupple in his rughourhoud for many years, and whoce errors of judgwent, or mal-pratice, E:en to have been invariably smoothed ove: with the southing apology that "ine ifd done as well as he could."

Mrs. A. Lusted sworn : Saw deceased on Saturday last, bering the firct time sise the accident; heard that he had not previously enjoyed grod health; his
mother told her so; heard that he had been spitting blood, and that he ras rather delicate for four years; never heard deceased say so himself.

Nathan Davis swom: Is brother to the deceased, who was thirty-three year old, or thereaboute, when he died; heard that he had been occasionally spitting blood before the accident ; had no cough, and performed his work at the mill tor the last year without complaining of illness.

Mr. Scott swom: Is nut a medical liceniate; does not know when the accident occurred to the deceased; he had been in a delicate state of bealth this summer; does not hoon anything of the time le began to attend him, but coula find out by his books; treated him aceording to the best of his knowledge and belitf. (Here the wituess declined to answer any further questions, and said that the Coroner might eommit him to gaol if he pleased. By a little coasing, howcore, he rosumed) Repeated his fontweransers; complaned of the ill-will of the regular physicians towards him, and the language they had used respecting his practice; conld not deseribe the state in which he first found the deceased; his memory did not serve him; thinks leceaved was labouring under nervous excitement; would not swear that it was so; thinks he appeared to be rather low; felt his puise; does not know the number of beats an a minute; it was quick and low; did not apptar to be compresed, and was not wiry; skin cool and moist; fere not thenbed. Decared had not conctant pain in the wouded fiot; there wan very little swolling; he wan a little thirty, and rather sick at the stomach; thinks he adminitered a portion of calomel and rhubarb, and afterwards a saline mixture; applied a cuoling lotion to the foot; does not knor positively, but thitks it was poulticed the next day. Second visit-thinks the patient was better; pain still continut ; applied a ponlice, as the lotion did not seem to have answered the purpose; cannot recollect his treatment of deceased during that day. When the fever rose he bled him; after some days bled him again, but net so freely as at first, because he saw, when the vein was opened, that it was going to be ingurious; deceased was in bed when he was bled; dots not know whether he kas lying on his back or side at the time; thinks he was propped up with pillows; is not sure; sometimes applied poultices mised sith opium, poppy heds, \&c. Se.; sometimes put the foot into warm water; last time he aw deceaved, the foot seensed much worse, but there was no erysipelas in it; pulse was very strong; paia was not worse; sometimes for twelve hours it was easy ; gen rally dusing the day, and was worse during the night; gare deceased antimonial preparations from the first, to cool his stin and reduce the fever. Gave him a hitle hywseamas; canuot tell how often; sometimes gare him a liste Dover's powder in Calomel; a few grains; caunot state the numbet of times. The leg swelled some after a few days, but not much above the arkle; there was no appearance of gangrene; the foot was as white as a chicken, only there was a small red spot on the leg.-Did not incise the wound ; the nail did not go through the foot. Witness had no objection to have other medical gertlemen called; was willing to give the patient up at any time. The only applcation he used to the foct was the cold lotions and the poultices. Deceased appeared to be better after being first bled; does not recollect what position hit was in when bled a second time.

Mr. Schofield : This witness was a juryman, and there seemed to be a detrmination on the part of his colleagues not to allow him to give evidence. Ifr Scott aiso repeatedly said, "I protest agaiust such a proceedmg," and the reasor he assigued was, that Mr. Scluofeld had been too much in the honse d

Wecessed. The Coroner, hewever, overruled all ohjections, discharged Mr. Schofield from the jury, there being a sufficient number of jurr re without him, and sterwards received his testimony.

Dr. Turquand sworn: Is a licentiate to practice physie, surgers, and misn sifery; was called upon to visit Asa Davis in a professintal capacit! on the 7:h instant; sas told by the inmates of deceased's house that he hard heo suff ring from the wound in his foot for eight or vine days; heardalso that Mr. Scott had heen in attendance from the sime the accident had occurred up to that pericd, but that he would not meet wituess there. Deceaced told witness that hee nas seized with vory severe pain a few minutes atter the aceident, and that it hal beenincessant from that time unt.l witne-s saw him ; was informed that deceatel hadteen bed twice, and had two severe deses of aperient medicine, sail to be calonet and jalap; he had aho been hept on very low diet; that he had tad a misure which witness supposed, from the symptoms preatot, had been antimony. Deceased was purged incêssantly, petspired frecly and had coustant sidness at the stomath; he then had a small quick, thready purse, and his fratures expressed much suffering: in fact he was groaning all the time of witncss, wisi. On examining the foot of deceased, witness from it mueh swollen and distended with serum ; the wound made by the mail, in the bottom of the foct vas closed, or very nearly so; the adjacent partw were more protuberant than the rest of the sole. Deceased told witness that he had cold chills on the prerims night; witness thought it very probable that matter had formed under the derse fancia of the foot, and opened it frecly in consequence to the bone. Nuthing followed the inciewn but dark gramous blood of the consistance of anchory sate ; made threc incisions over the dornm of the foot, with a siew of allowitg the infiltrated serum to encape; placed the foot in hot water, and ordereti at to fomented frequently; to be kept elevated atove the hips, and warm poutciers to beapplied. Administered filty drops of hamam, to be followed by teth drops more every two hours, unil sleep should be probuct : requested atcodebits to gire wine freely to deceased, abo beef tea, ani occasinally brandy in lieu of the wine, for the purpose of auporting the patient. Called next day and found deceased in a very low state; the font was much less swollen; had had a lithe slefp, the first since the accident; examined the foot again; ordered and sent calomel and opium pills in the morning, which arrewted the viok ont puging, which until then had been going on. Witness then dilited the wound witi a piec of linen, which be ordered to be removed if the patient complained of pain; same treatment continued. Next day found deceased sinkiug fast; cold clanmy sweat, gangrene, or what is commonly termed mortification evidenty commenced in the foot. Cut into the mortified parts, which deceased hardy tolt; ordered brandy and quinine in addution to former treatment: effrrecoirg puhice with tea grounds to the foot; left in hupes that nature would raise a line of das arcation between the dead and living fasts; intended, as soon as this ecemed, to amputate. The patient, however, gradually sunk, and on Sunday, found the mortification extendug, and hut in a dying state; went immediately fir Dr. Watt, who saw him with tue in the evening, and examined the wound; Ms. Davis died on the following morning.

Mr. Scott, recalled: Could not say how deceased passed his nights; wiske he slept a litule, not much; gave hm the Ilyoscyamus to produce slefp; was bere on the morning of the day that Dr. I urquand was calied in; decoeased res norse then; exanined the nound that morming; it had discharged nitule.
'Ininks the pills he gave deceased were composed of hyoscyamus, is not sure; deceased was to take one every four hours. (In answer to a question from Dr. Turquand, respecting the usual quatity of byoscyamus comprised in a dose, the wituens stated that it was from tue to five grains of the extract, and tha: it might be given in doses of from tive to ten or fifteen grain-); could not keep deceased's bowels pell ; gavehim the misture in the botle; canoot tell what were its proportions. It was a camphor mixture, and Epoun salts in a quart of water. Thinks there was one ounce of tincture of hooc!anus, does not how of what strengh, and from two or three grain of comphor in the buttle; dece ased wa, to take two or three sponstul every fur hour-; gave hin aho calomel pills. Did mot ebjet to Di. Purquand, Dr. Watt, or any , ther regular medied practiti ner being called in, but said the two former would bet meet biun there.

Freeman B. Schofild swom:-Was in the house with deceased very often during his illness; in fact several times every day. Deceased appeared to be in great pain from the first ; pas-ed hivnights restlessly; said he felt very miserable; slept wo the third day atter the accident, about twenty minutes; about the last of Mr. Scott's attendance, deceaned was very much purged ; Mr. Scott always appeared to think he would get well; wituess was prenent when Dr. Turquand first visited deceased; he appeared sorry that Mr. Scott had left; he only wanted another medical man to adsi.e with Mr. Scolt; witmess bad heard that Mr. Scott would not meet with Drs. Turghand or Watt; was present when deceased was blad; thiaks he was buhtered up on both occasions.
T. J. Cotte sworn :-Heard the evidence of Mr. Scott and Dr. Turquand ; is a member of the College of Surgeons; saw Datis on Saturday lant; found him very much prostrated; puhe thready ; hardly perceptible; tongue thickly coated; thought him simking. Eamined the foot; thought there were slight symptoms of gangrene. (Withess then described the treatment necessary fot punctured wounds, which was directly opposed to that pursued by Mr. Scolt in the case of the deceased); said to Air. Fanquiete that deceased was in a very dangerous state; would not hase bled dacerased; the wound in the foot shald have been dilated. With the anount of irritation which has been described, he world have thought it necessary to dilate the wound to the bottom; is of opinion that there was bad practice at fist; that the sios of omission on the part of Dr. Scott were greater than those of commission. The wound ought in hare been laid opea; the patient ought decidedly to have had anodynes regulary; would have preferred opium to Ilyoseyamus; the incisions made in the font by Dr. Turquand were absulately iecessary. Thitiks that deceased came to his deati by contitutional irritabiity caused by the womed.

Mr. T. II. Watt, sworn-Is a member of the Royal College of Surgens, London; has heard the whole evideme; there must have been great iuflammation to warrant general bleeding ; the bleeding should have been local, i. e., in the region of the wound; as it was, the bleeding was bad practice; it wight have produced more irritation; if the wemond was irritable, general bleeding mas highly injurions; the wound should have been dilated as soon as the nerrois irritation appeared; had probed the wonad and found it open to the bone; the antimoniah and cold lotion admimbtered and applied by M.. Scott, were wrom. when the skin and pulse were in such a state as he has described them; if Mr Scott has stated his treatment correctly, it was decidedly wrong; the cold lotien evidenty produced the irritation; the wound should have been soothed as and as possible; Dr. Turq and dideverything he could under the circumstancen.

Mr. P. G. McKenzie, sworn : Has heard the statements of the other medical men present ; Dr. Durquaml's treatment was most proper for a punctared wound; watness is a heentiate ; does not consider Mr. Scott's treatment preper; would certainly have ditated the wound on the second day, or as soon as symptoms of irritable fever appeared.

The tetimony was then chosed, and Dr. Turgand read an extraet from Gibson's Sargery, ou the treatment of punctured womds, which pertectly agreed with that dearrbed by the modiral men prespant. We should observe that the work in question is an indisputable anthority in all such cases. The cononer then summed up the evidence, and the jury retired for a short tine, when they brught in the followitur verdiet, "We doarree that the decensed, Ava Devis, came to hisaleath for want of proper medical aid."

## (Signed) <br> JOHN PIIEL.iN, Foreman.

And so, because Mr. Scott has "erjoyed the confidence of the people in his neiphbourhood for many years," probably trom the want of good professional advice, and because "he had done as well as he could," a human life is to be sacrificed at the shrine of ignoramee and cupidity. Alas poor $A_{\text {sal }}$ Davis! to thee the pain and suffering, eave and comfort, thou dibst endure while on carth are now alike. The cold hand of death hath swept over thy wounded foot and tortured frame ; but if from the shadow of that mysterious and impenctrable veil which separates the living from the dead, thou last been permitted to witness the effort made to unfold the secret of the severance of the spirit and body-thou wilt abso surely recusnize the remorseful pang of conscionce with which he who "dia as well as he could" must have heard the verdict of his countrymen, that he had suffered a fellow-creature to depart from life throush igrorance and omission.

We conrratulate Dr. Patterson upon the able and impartiai manaer in which he conducted the inguest. We congraulate Dr. Turguand upon the satisfactory mamer in which he has been able to clear his profestional reputation from unjust aspersions and envious slander. We congratulate the jury on their intelligent and manly verdiet,-and Mr. Scott may congratulate himself upon the forbearance and clemency of those, whomight if they pleased, and whose strict duty it undoubtedly would be, to prosecute this matter by further judicial investigation.

## PUBLICATIONS RECEIVED.

The history of the Epinlmir (Molera as it appeared at Chatham,
 Suryem, Li. N.

The Northern Li met. Pluttsinuryh, for August aud Sept., 18.51.
The Dublin Werlical I'ress, theee numbers.




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## SELECTED MATTER.

## MEDICINE.

ABSTRACT OF A PAPER ON THE V゙ARLATIONS OF THE SULPIATES AND PHOSPHATES EXCRETED IN ACYTE CHOREA, DELIRICAL TREMENS, AND HFLAMMATON OF THE LRAIN.

By H. Bence Jutsi, M.D.

Ilaving determined the variations of the sulphates in the states of health when different diets, amount of exercise, and medicines were taken, the variations of the sulphates in disease were examined. At the same time the total amount of alkaline and earthly phosphates was determined, partly in order to see whether the amount of sulphates and of phosphates bore any relation to one another; and partly to test the conclusions which were drawn in the author's previous paper on the Variations of the Phosphates in Diseases. The cases were thus classified :-

1st. Acute and chronic diseases, in which the muscular structures mere chiefly affected, as chorea.

2nd. Functional diseases of the brain, as delirium tremens.
3rd. Acute inflammatory diseases of the nervous structures, as inflammatory of the brain.

4th. Chronic diseases of the nervous structures.
5th. Acute diseases, in which neither the nervous nor the muscular stractures were chiefly affected.

6th. Chronic diseases, in which neither the mucular nor tae nervous structures were chiefly affected.

The three last classes gave only negative results.
In illustration of the first clase, three cases of most intense chorea aro detailed; the unine was examined frequently from the third to the eleventh day. The phosphates were foumd to be diminished. The sulphates were present in very great excess. The urine was found to be so loaded with urea, that nitrate of urea crystallized out before the urine was conceatrated. The specific gravity of the wine was as high as 1036 in one case, 1035 in another, and in the third, $10: 1$.

In illustration of the second clase, three cases of delirium tremens are given. The urine was examined from the fith to the fourteenth day of disease. The phosphates were not found to be so remarkably diminished as in the cases reported in the previous paper. 'The sulphates were found to be excecdingly increased. The amount of urea was so great, that nitric acid caused an instantaneous crystallization. The specific gravity also was in one case, 1041 ; in anoher, 1037 ; and in the third, 1027 . In other words, there was the most remarkable correspondence between the state of the urise in acute chorea and it delirium tremens.

In iltustration of the third class, four cases of acute iuflammation of the bair are given. The urine was examined from the fourth to the twenty-sixth
day. Though the inflammation in these cases was not so intense as in those which were recorded in the author's previous paper referred to, yet they confirm the statement that in inflammation of the brain the phosphates in the urine are increased; they also lead to the conclusion that the sulphates are at the same time increased in the same degree.

In conclusion, the author states, the phenomenon common to acute chorea an. 1 to intense delirium tremens is increased and unceasing must ular action.The muscles are highly complex organie compounds, in which sulphur esists in an ut oxidized state, and the muscular action is accompanied, if not caustd, by an action of oxygen, which, among other results, gives rise to the formation of sulphuric acid and urea, the amount of oxidation beng proportioned to the intensity of the muscular action. The result produced is an increase of the sulphates and of the urea in the urine, just as in health they would be increased it continued strong exercise were taken. The iscreased amount of urea docs rot constitute a disease resembling dabetes, but it as only an evidence of the changes which are taking place within. The inerease of sulphates and phoophites in itflammation of the brair is also an evidence of mereased oxidation of the nervous structures. These simultancous variations depend on the fact that the amount of sulphur in the brain is nearly the same as the amount of phosphorus. Thus at one time we have evidence of increased oxidation of the elemants of the nervous structures, and at another time increared oxidation of the plements of the muscular structures; and we may thus arrive at the conclusion, that at one bime the function of the nerres and at another that of the muscles, is inordinately increased

## YEAST IN THE TRCATMENT OF YALANANT SCARLET FETER.

[Mr. Bennett, of Gateshedd, states that he has found the administration of fresh yeast of the most invaivable ackantage when the sympoms are of a malignant characier. He says:]

After ammonia, the mineral acids, chlorate of potash, Sce., have failed, and the application of nitrate of silver besides, one or two table-spoonsful of fresh yeast frequently given (according to the age and malignancy of the casc) has, in ing practice at least, been quichly efficacious as an antiseptic and stimulant.Medicul Gazette, Junuary 10, 1801.

## ENCEPHALOLD DISEASE.

By Dr. Charlis Kidd.
It has been said encephaloid does not arise from disease of the blood; if no!, it is difficult to say whence it arises. Sir Robert Carswell long since stated, that encephaloid was a molecular deposit from deranged nutrition, and our later experience has tended very fully to corroborate his views. Laennec thought it vascular; but this can scarcelv be the case, as, under the microscope, we detect little else but some of the series of nucleated cells only, without the peculiar fibre of some other forms of malignant growths. The microscope has not yet succeeded in pointing out any diagnostic apperrances of malignant and non-mslignant growths ; it has done much, however, in showing the origin of the cances and these allied diseases.

The highly interesting fact, deseribed by $\Delta$ scherson, that a drop of oil cannot some in contact with albumen without being enclosed in a vesicular mem-brane-that rubbing oil and albumen together resolves them into granules iden:
tical with those found in animal fluids-that every kind of blastema deposits those elementary granlues, these united, constituting nuclei, which merely sequire to take plase in the animal body to have the characters of vitality attached to them; the practical fact, that the molecular element is the basis of all living tissues, a view not contrary but in advance of that of Sch wann, who considered, I neel hardly remark, the cell as the primary form of life; the very great probability that eaneer or enc phaloid is not a new growh; everything, in faet, teals thards a solution of the difticult problem, what cancer really is. There is no dubt that the nu-li in cancer and cancer-like growths are produced precisely vimilar to those in the bormal textures of the boung. That there is a diminished or altered vitality of the llood plasma, is all that we can assert with any amunt of certainty. The nuclei of cancer, like those of other cells, may be produce 1 by the aggresition and meliig together of molecules and granules, prodaing nev nuclei an I cells, which all micruxeopic observers have seen in their th usand fortas, or the original nucleus may expand and we have an outer cell wall, -a new nacleus producel within it by the deposition or melting togetier of granules. Free nuciti, again, in a fibrous stroma, to the young microscopist, may be still quite different, namely, the result of disintegration-of breating $a$ wn not building up of tissues, nay, buth prucesses may even ba going natogether. One of the chief sources in hospital research, perhaps of the raultipleity or cancrr growths and cancer cells, is this arrest of development from conetituti,nal coses and tratment; there are no granules distinctive of cancer nutheoli and nothing uistinctive iufallible of sancer cells; nething but constant histological researches and study of the history of each case, to mark out cancer eflls from epithelium or pus colls. Treatment may arrest the disease, and a change in the ensatitution of the blosi from different hegienic conditions, or from cuttig out a cancer grawth and thus preventing the seeds of the disease spreading may diter the win ruscupic appearances; but the microscope aloue will iell rery litie.—Medical T'ines, December 7, i8.jo.

##  <br> Biy Mi. Balma, .

[At a meeting of the Liverpond Medical and Pathological Society.]
The urine of a patient suffring from cancer of the uterus was exhibited under the microscope, and was proposed by the author as a means of diagnosticating the presence of cancer without the necessity for making an examination per caginam. The urine washing off the cancerous discharge from the vulva, the oucleated cancer-cells were shown to the society in prouf of the value of the test -Medical Gazatle, Jituary, 24, 1851.

## SURGERY.

## Cl ITRIZATGON OF A. CLCER PROMOTED BY THE ELECTRIC MOX. Cutar the cure of Mr. Brenshy Conper.

[ The attention of Mr. Cooper was formenly directly to this process for the promotion of the cicatization of obotinate uleers, by Dr. Hull, of the United States of America. Instead, huwers, of amploging the galranic battery which
is " ambersome, he used one introdaced by Dr. Golding Bird, merely using tro plates, one of silver and the other of zine, connected by a copper wire. The case in which the apparatus was used, was an uleer originally produced from a gun-shot wound situated on tue inner side of the right soot and below the ankle. The charge of shot pr.ssed obliquely through the soft part of the right instep, and injured the navicular bone. During the treatnent several emall pieces of bone came amay, as often as two or three times a week. The wound never however, completely healed, and previous to the application of the electric mosa, it was the size of the hand.]

Carrot poultices were first used, and leeches were from time to time applied zound the sore. Warm water dressing was subsequently employer, and the patient took sarsaparilla, but this treatment, continued for about six reeks, proved unavailing as regarded the cicatrization of the ulcer.

At this period Mr. Cooper ordered the electric mosa to be applied ; this was done in the following manner:-a small oval piece of blistering plaster, about the size of a crown piece, was placed six inches above the sore. On the following day, a blister having formed, the cuticle was removed, and a plate of zinc, previously cut so as accurately to fit the vesicated surface, was applied on the same. A silver plate was then placed on the original sore, and the tro metalicic agents connected with a copper wire. This simple apparatus was secured on the limb by means of a fews narrow strips of adhesive plaster, the whole being covered with wet iint, and a loose bandage, which iatter was kept constantly moist.

On the next day the silver plate was raised for the purpose of examining the sore, and a most decided improve anent was observed, the granulations lookiog more healthy and aetive. On the secciad day, however, (the moxa having remained in contact with the limb for torty-tight hours,) there was pain and considerable reduess over the whole leg, with enlargement of the inguinal glands. The moxa wat therefore removed, the stimulating effects having evidently caused inflammation of the absorbents; yet the original sore had a more lealithy appearance, and was evidently decreasing in size. On the fith day the inflammatory symptoms had considerably subsided and the sore was improving fast. Un the nintls all pain and redness in the leg had dieappeared, and a slough separated from tie blistered surfece to which the zinc phate had been applied. The original ulct: was fumd nuaid decreased in size, being now bo larger than a crown piece; the granulations as-umed a beallhy appearance; they rose to the level of the margin-, and wete cosersed and protected towards thas centre of the sore by a whith layer of healthy pus. The burders wete becoming flattened and regular, and the gradual extonsion of the cuticle could be distinguished within them.

The cieatrizing process went on unintertuptedly for several wecks, until he 7th of Jamary, 1851 , abuut four months after admisisinn, when the ulecr wis quite healed up, and the patient lift the horpital in goud health. He was, however, recommended not to bear the whole weight of the body upon the leg for some time to cone, aud alluw the soft parts about the aakle to guin tole br fure he used them freely.

In reviering the vati us facts connected with this case, one is involurtarily led to ask whether the galvanic excitematat acte 1 iirectly on the surc or indirectiy through the vascular disturbauce which was brought on by the continuous preseuce of the musa for forty eight hours. That ergsipelas has repeatedly been
conducive to the disappearance of congestion in internal organs or externul parts is well known; nor are t', ere examples wanting of artificial ulcers aiding in the cicatrization of long-standing sores, so that the infuence of the electric moxa seems 7 : first sight more likely to have been exerted indirectly than directly. Still it must be conceded that this indirect effect may be of $\because \cdots$ nuliar nature; further trials will probably settle the point.

Whilst on the subject of therapeutic uses of galvanism, we should not omit to mention the galvanic poultice lately proposed by M. Recamier, of Paris. It has been euccessfully used for neuralgic and rheumatic pains, 太r.., and consists of a piece of cotton-wool, containing a layer of minute fragments of zinc, and another of particles of copper; the wool being properly sewn up, is placed in a bag, one surface of which is of cotton, the other of an air-tight tissue. The permeable surface of the bag is then applied to the skin, and fixed by a roller or a towel; heat is soon developed; the perspiration, retained by the air-tight texture, accumulates; it moistens the bag, and this moisture, which is acid, acts on the zine and copper placed in the cotton-wool.

Thus the two inetals are acted upon by a dilute acid solution, just as they are in the trough or the pile, and a certain amount of electricity is disengaged. When the skin is very dry and unperspirable, a piece of flannel, dipped in a solution of common salt, and then wrung out, is placed between the galvanic bag and the skin. Electricity is given of to such an extent, that it asta like a mustard poultice, though there is no pain, iut merely a pricking feeling of marmth. Time nill show whether M. Récamier's gaivanic poultice acts otherwise than common counter-irritants.-Laucet, Joun. 25, 1851.

## sRACTICAL RULES ON THE SUPPRE:-ION OF ARTERLAL HEMORRHAGE.

By Professor Syue.
In the first place, you should hold it estallish: 3 , that it is always desirable if possible, to arrest bleeding from arteries by means applicd at the scat of injury. Secondly, you may be assured that bleeding at and below the wrist, and at and below the ankle, is alwajs under the control of pressure, provided it be properly emplojed,-that is, not superticially, but from lint, or some other suitable substance being introduced into the wound, and made to press directly upon the orifice of the vessel. Thirdly, in wounds of all arteries, accessible between the limits just mentioned and the heart, the vessel should be exposed at the seat of injury, and tied on both sides of the wound it has sustained. The principal has been so loudly maintained by Mr. Guthrie, that I believe some people have given him the credit of its origin; but it has been long established as a sound princiciple of practice by surgeons of the highest eminence both at home and abroad, and more especially by Mr. John Bell, of Edinburgh, in whose 'Principles of Surgery' you will find many graphic and impressive lessons of the effects resulting from attention to it, and also from ite regard.

One evening I received a message from the Northern Railway, that there was a steamboat waiting at Granton to carry me across the Firth to Burntisland, phere a special train would be ready to procted onwards, but whither, or for *hat purpose, there was no information. Having travelled a considerable distacce, I met several practitioners, of great experience and intelligence, who were
suffering much ansiety in regard to a youth, in whose forearm an incision tor all abscess had bled profusely. As it was quite away from the radical artery, the ulnar was concluded to be the source of hemorrhage, and had been sought for by dissection upwards towards the elbow, along the course of the muscles, between which it is wont to run, but without success; and, as the patient seemed little able to bear any further loss of blood, it was deemed desirable to have a consultation as to the most efficient measure of relief, even though it might iavolse ligature of the humeral artery, or removal of the limb. Acting upon the principle above-mentioned, I scratched away the clot at the bleeding point, from which a copious stream instautly issued, but arresting this with my thumb, pressure being at the same time made upon the humeral, I dissected a litthe through the adjacent texture, and brought into view a large artery, under which a double ligature was passed, and tied on both sides of an aperture distinctly visible in its coats. In less time than I have taken to deseribe the process, the patient was thus transferred from a state of extreme danger to one of perfect safety.The artery was obviously the ulnar, which had come off higher than usual from the humeral, and pursued an irregular course externally to the fascia of the forearm, thus explaining how it had been wounded by the superficial incisiob, and how it had escaped the deep dissection.

The fourth rule I have to offer is, that when an aneurism forms after the wound of an artery, the same means should be employed as in the first invtance, unless the vessel concerned be of a large size, and admits of having a ligature applied to it, without the intervention of any large branch between the seat of obstruction and the wound. The formerly not uncommon case of aneurism at the bend of the arm, as a coneequence of the humeral artery being wounded in venesection, affords a good illustration of the advant age resulting from aftention to this rule, since relief was thus afforded much more easily, safely, and securely, than by ligature of the humeral furthar up the arm.

To illustrate the exception mentioned, I may relate the case of a young man who, in one of the most remote of the Orkncy Islands, accidentally thrust the blade of a kuife into the midule of his thigh, so as to wound the femoral artery. The blood gushed forth with great violeuce, but was restrained by acom. press, formed of eight half-crowns, wrapped in a piece of cloth. The wound healcd, and an aneurism soon afterwards appearing, he was sent here to my care. Respect for the general principle, and suspicion from the purring sound, that there was a communicatio, between the artery and vein, suggested considerations which were opposed to ligature of the femoral, but I nevertheless prefurred this operation, as the ligature could be applied without the intervention of any considerable branch; and $I$ accordingly performed it, with the happiest result

The following case will show the danger of not strictiy limiting exceptions to the rule within the limits which have been mrntioned. A widdle aged woman, in a country town, while walking up a steep abd slippery ascent, and carry* ing a knife, with which she had just killed a pig, fell, and thrust the sharp point of the blade completely through her leg, a little below the knee, entering between the tibia and fibula, and issuing at the lower part of the popliteal space. Blood gushed from both openings, but when she was laid in bed ceased, and did not return. At the end of a fortuight, the wounds having healed, she attempted to walk and found that a swelling had taken place at the seat of injury, on accouns of which, by the advice of her medical attendant, she came here to be under my care. On examination, I found a large pulsating tumour in the forepart of the leg, immediately below the knee, and another of $\in$ qual size in the popliteal carity.

Fteling unable to determine whether the anterior or posterior tibial, or the popliteal artery itself, was the vessel wounded, and, on the whole, being inclined to think that the one last mentioned was most probably concerned, in which case ligature of the femoral would be the proper course, I adopted this mensure. No bad consequences followed the operation, the tumours ceased to pulsate, and favourable expectations were entertained of the result for two or three weeks, when the anterior wound below the knee opened and bled profusely. I dilated it frecly, evacuated the cavity of its fluid and coagulated contents, and applied firm pressure between the tibia and fibula, whence the blood was found to issue.Mortification followed, and I performed amputation, without saving the patients life. There can be no doubt that, in this case, if the true state of matters could have been ascertnined, and a ligature applied to the anterior tibial, which was divided just before it passed through the interosseous ligament, both the limb and life of the patient would have been preserved. -Mouthly Journal of Mediccis Science, Ayril, 1851.

## on The TREATMENT OF REMITGENT MENSTRUATION I Y SULPHATE

 OF gUNA.
## By Dr. Eduted Jehn Tilt.

[Dr. Tilt says he uses the term renittent here in the same sense as in the pathology of fever. This variety of menstrual derangement being characterized by a change from the habitual type to some other, so that the menstrual periods are brought nearer, and tend to run into each other. The first case occarred in a tall slender woman, ared twenty-rine. In this case menstruation commenced ottween fourteen and fifteen, and continued regular until six montlis since, when she left her native country, Lincolnshire, for tunn. For two months, although she menstruated as usual, she was troubled with leucorrhea between each menstruation. The menstrual periods then came ou every fortnight and lasted cight instead of five days. Although she had tried several practitioners, the disorder remained the same, and, continues Dr. Tilt.]

On the 25 th of October she applicd to me at the Paddington Free Dispensary. The patient was weak and exhausted, but not chlorotic ; she had just passed a menstrual period; there was an absence of pain and of other syaptoms of uterine disease; therefore, not withstatding a discharge of which she complained, I mintted all local treatment, and ordered the following pills and mixture :- sulphate of iron, two scruples; sulphate of quina, ten grains; extract of byoscyamus, a scruple: mix for twenty pills, one to be taken night and morning. Camphor mixture, sis ounces; liquor potaset, foer drachms ; tincture of hyoscyamus, six drachms; lincture of cardamons, two drachms. Half an ounce in be taken thrice daily. An opinm plasts to be applied to the pit of the stomach.

The patient's general health improved, men-truation returned to its wontcd type, and from that time she only took one pill every night, until the approach of the ensuing epoch, which passed on as it ougit to do; and the patient was discharged on the 26 h of December.

Aliss M. A. L——, aged 16, nith dark lait, grey eyes, slender, and of midding height; has lived in town all her life. She tirst arentruated between fourteen and fifteen; and regularly, for four mowho after its first appearance, did menstruation adopt the monthiy type. Since seven or eight yenrs of age the had been subject to leucorrhoa, which for the last three months has prected sad followed the menstrual flow ; the latter has made its appearance every fort-
night. Still there was no intermediate leucorrbœa; there were no pains in the back, none in front, and none were determined by pressure on the abdomen; but the thighs were so painful that she could scarcely walk, and her legs were at times much swollen. For this symptom my opinion was requested by her mother. The girl had very much fallen off, was much debilitated by loss of blood, and the undue influence of the generative organs on her system had caused catamenial headache, heaviness for sleep, momentary loss of her senses, and often fits of lowness and shedding of tears.

I thought I could promise a sncedy return to health, and I ordered the following pills :-Wulphate of quina, ten grains; extract of gentain, a scruple; extract of aloes, ten grains; extract of hyoscyamus, a scruple. Mis for ten pille, one to be taken night and morning. I prescribed the compound camphorated mixture, and belladona plasters to each of the ovarian regions.

The symptoms rapidly abated, and menstruation was forthwith brought back to its original type.

The preceding cases are, in iny opinion, samples of an idiopathic aberration from the normal type of menstruation, and perfectly independent of any inflammatory lesion of the ovaries or uterus. They are illustrations of similar cases which have come under my care-cases in which various preparations of steel had been fruitlessly tried, and which soon yielded to the use of sulphate of quina alone, or in combination with other remedies; and I therefore strongly recommend this practice to the profession, premising that the treatment will not be 50 rapidly effectual, and may even be attended by mischief, if the remittance of the menstrual flow depends, as it sometimes does, on ovarian or uterine subacute inflammation, as in the following case :-

Eliza II., aged twenty-one, of florid complexion, full habit, and of middling stature, applied to me at the Paddington Free Dispensary for relief. For the last tso years she had been living in London, menstruation first appeared between thirteen acd fourteen, became regular from the first, was very abundant, and lasted five days at each period.

A few months ago, the patient was attacked by a severe cold with feyer, which stopped menstruation for two months. When the latter returned it mas scanty, and accompanied by more than usual pain in the back, the stomach, and head; and, attended by these symptoms, it made its appearance every tbree weeks instead of every month, giving rise also to sensations of weakness, trembling, and lowness of spirits, with which she had previously been wholly unacquainted.

The patient localized her pains in the ovarian regions; pressure increased them, so did walking or any unusual exertion; she was slightly feverish; the tongue was furred, and the bowels were costive.

I considered this case was one wherein the remittance of menstruation was dependent on subecute inflammation of the ovaries, and I ordered six leeches over each ovarian region ; poultices to be kep to the same regions at night; add a flannel sprinkled with camphorated liniment to be applied over the abdomen during the day. Aloetic purgatives and a sedative mixture were also preseribed -the pain subsided; the patient felt well ; but menstruation returned at the morbid period of three wreks and was still painful, and left behind it a certain smount of abdoninal pain. After giving a brisk purgative, I applied belladonas plasters to the ovarian regions, and gave pills similar to those taken by Miss $A$. L. The patieut now says she feels well, and as menstruation has resumed its physiological type, I believer her to be cured.--Lancet, Feb. S, 1851.

## A CASE OF OBSTRUCTION OF THE COLON RELIEVED BY AN OPERATION PERFORMED AT THE GROIN.

## By Jonces Euke, Senior Surgeon to the London and St. Lukc's Hospitals, \&c.

The subject of this report was a man aged sixty, who on Dec. 16, 1850, first complained to the author of feeling generally unwell. Me had no pain, but bis comntenance was depressed, his eyes sallow, and his tongue coated. The bowels were confined, and lately medicines had acted with difficulty on them.An aperient was ordered, and on the fullowing day he passed a smali lumpy motion, but without relief to the symptoms; castor-oil was ordered, but after a time was rejected by vomiting. On the 18 th there was no relief from the bowels and he vomited everything he took. From this time he progressively got porse in spite of all the means resorted to for his relief. He complained of pain chiefly about the region of the caccum. The transverse arch of the colon cou'd be felt distended and tympanitic. A careful observation of the case had led the author to believe that there was obstruction in the bowel about the sigmoid fexture of the colon, and it was resolved as a last resource to operate upon the patient. The operation was performed on the 23rd. Not thigking it prudent to assume that the conclusion respecting the seat of the "obstruction was certainly correct, the author determined to adopt that operation which would give him some opportunity of extending his search, provided he did not find the obstruction at the point where it was supposed to be. He therefore opened the abdominal parietes near the groin, by an incision four inches in length, a little to the outside of the course of the epigastric artery, the lower extremity of which incision terminated a little above Poupart's ligament. The peritoneum was opened to the extent of about two inches. On passing the finger down the surface of the intestine, which now protruded, a diseased mass could be felt, which appeared to encircle the intestine. The bowel was then opened above this part; a large quantity of freculent matter came away and the patient expressed himself as relieved. On now passing the finger into the bowel it was found to be imperrious about two inches below the aperture. After the operation the recovery of the patient was rapid. On the 2ud day, faces passed per anum, and continued to do so for more than a month, when their passage through the natural opening ceased ; it was again partially restored, but from this time the greater part of the faces passed by the wound. This is closed by a well-fitted pad, and he has been enabled since to pursue his ordinary occupation almost without interruption. The author then proceeds to remark on the danger of protracted delay in attempting to relieve such eases, a delay which is, however, to a great extent rendered. necessary by the difficulties of diagnosis. The distension of the colon, and the evidence afforded by the proper introduction of the long tube, are pointed out as the two means of diagnosis on which reliance may be generally placed for the purpose of determining the seat of obstruction, when it is situated at the lower part of the colon. The advantages of the operations of Amussat and Littre are then compared, and the author, while admitting the advantage gained by operating in the loins, as proposed by the former-of not opening the peritonacal cavity- get thinks that the operation in the groin cffers certain advantages which rencier it in many cases preferable. By the operation in the loins nothing more could be done than opening the intestine; but this might in some cases be improper-as where obstructions were produced by fibrous bands overlaying the intestine, or by strangulations, the result of causes acting exteriorly to its tunics. In these cases, the proper treatment is to divide the bands, or relieve the cause
of strangulation. In the event, ton, of an error of diagnosia, the opening in the loins does not provide any facilities for correcting the erro.. The ditnger of total failure of affording telief consequent unon this state of things, must theretore be attributable as a demerit to the operation in the loins. There are, besides, the minor evils in operation, that the opening cannot be conveniently attended to by the patient himself, and that there exists frequently a great disposition to contraction, arising from the great $d$ pth of the wound, which requires renewed surgical interference. In all these particular;, with the exception of the necessary attendant of peritoneal section, the operation of opening the abdomiual parictes at the groin, in all cases of obstruction, or suspected obstruction, in the loser part of the colon, appears to the author to be the operation which should be preferred. It affords facilities for modifying the treatment, either by opening the intestine, when incapahle of relief by other means, or by dividing or removing any existing cause of strangulation. It enables the surgeon to extend his search within a limited rauge, in the event of the diagnosis proving incorrect; it allons him to open the bowel as close as possible to the seat of obstruction; and it secures to the patient the facilities for attending to his own comfort which appear almost a necessary coudition to make lise endurable under such circumstances.

## TREATIENT OF TETANUS. <br> By Proftwar Maller.

[Speaking of the value of Cannabis Indica in this disease, Professor Miller says,]

I can now record three fortunate cases under its use; all traumatic. A girl, eleven years of age, sustained comminuted fracture of the finger. Tetanus occurred, the finger was amputated; and the treatment consisted of purgatives, cold to the spine, Indian hemp-pusbed to narcotism-nourihment and seclusion. The amendmot was gradual and complete. A boy, about the same age, had simple fracture of the thigh, with compound and comminuted fracture of the great toe. The treatment and result were the same. Another boy, rather older, had compound fracture of the bones of the arm. The treatment again resulted in cure. And in these cases I was and am inelined to award to the cannabis the greater part of the therapcutic agency. In other examples of the disease, I have seen it fail to cure, but never to relicve. It is given in doses of three grains of the extract, or thirty drops of the tincture; repeated every half hour, hour, or two hours; the object bring to produce and maintain marcotism. There is s very marked tolerance of the remedy.-Brit. and For. Medico-Chinurg. Revieu, Jan. 1851.

## PROTECTION OF GRANULATING SLRFACES.

## By the same.

[Professor Miller protects raw gramulating surfaces "from the itfluence of the atmos,bhere, by imitating the incrustation of nature." This he does by using " a thick semifluid aqueous solution of gum tragacanth." This is]

Laid gently and uniformly on the rasv surface, so as completely to proted it; and if at any portion the envelope threaten to become imperfect, the attendant is directed to effect an immodiate repair. The application is productire of
no irritation; nnd, being translucent, permits a complete surveillance of the part. Atmospheric infuence is completely excluded; and the raw surface would seem to be placed in circum.stances somewhat analogous to its normal state, as if still invested by the integument. Should influmation ensue, no harm has been done: on the contrary, action is likely to prove less intense than it otherwise would have been; the gum is loosened and washed away by the perulent secretion; and water-dressing may then be used, as in ordinary circumstances.British aul Forcign Mideco-Chirurs. Feviee, Jua, 1851.

## MIDIMFERX.

## CASE OF DIFFICULT LABOIR N CONSEQCINCE OF TWINS JOINED by The greast.

> By Dr. Churlis Sturt, Chinuside, Buriohaire.
[This was a case in which Dr. Starrt found the head presenting in the first cranial position and every other feature of the labour apparently very favourable, though he found that the strength of the pains was remarkably decreased on the patient laying down, although the pains on her moving about in the crect position were very violent.]

The cranium advanced with extreme slowness, considering the strong nature of the paius ; and it was only after the most severe training that the head began to press on the perineum, and after a very tedious passage was born about seven ocluck, p.m. The pains previous to this were of the most frightful desciption, and they were now, if it were possible, increased. Some apparently insurmuantable obstacle seeming at this stage to oppose the further exit of the iufunt, I tried by every means in my power to discover the cavse of delay, but from the extreme tightness of the parts it was impossible to ascertain its nature. I dreaded, from the enormous straining, that the uterus wovid speedily ropture, unless delivery was immediately ffected, so accordingly I applied at the first geatle traction; but, when I foumd that unavailing, I was forced to increase it to what previously I would have considered a most unwarrantable degree, and succeeded in delivering the shoulders, when for the first time I discovered something unusual. I continued, however, my traction as my only hope of getting the woman delivered; and after using the greatest force, I was in no small degree astonished when another head came down with the face considerably flattened. This second head lay twisted round upon the back of the first delivered infant. After further perseverance, I succeeded in extracting two males, still-born, and iatimatel, joined from the sternum to the umbilicus, into which an umbilical cord, common to both, was inserted. The placenta speedily followed, and waa not larger than is usually seen in cases of twins. The umbilical cord was rather thicker than usual. About an hour elapsed fom the time the head was born till the delivery was completed. The pains during that period were of the most agonizing and alarming character, and made me regrct exceedingly having no chlaroform. After a careful examination of the external parts, I was very glad to find no perineal laceration, which I feared very much trom the passage of such a mass. The twius were at the full time, and fifteen inches long. The band of connesion extended from the upper part of the sternum to the umbilicus, and Fas seven iuches broad and three long; and the diameter of the twins, whenlaid
together, was six and a half imeies. They were perfectly and fully forned in other respects, but the head that presented first was the larger of the two. I failed in obtaining permission to make any more particular examination.

When we consider the breadh of the connecting band between the two cinildrea in the above casc, we see more clearly how the head of the second child could assume the pusition that it did, and to what an extent the connecting band must have been stretched to have allowed of its being placed at the back of the shoulders of the other child when delivered.

My patient is a woman of slender figure, but well formed and of a good constitution. During her pregnancy she enjoyed excellent health, which in some measure strengthened her for the extreme trial she had to undergo, and which she erdured with the greatest fortitude.

She has made a most excellent recovery, and is now quite strong.
No doubt the long delay before the head was born, in a great degree sared her from the danger of perineal laceration, as there was ample time for complete dilatation, which was so essential fur the safe passage of such a mass as hat to follown-Monthy Journal of Medical Science, Junary 18.51.

FRGOT OF RYE.
1By Dr. Mis is, of Phdudelyha.
Dr. Meigs, of Philadelphia, in his valuable work on Midwifery, in spuaking of ergot, says :-"A labour is effected by the contractions of the muscular fibres of the womb, aided by that of the abdominal muscles. If all the powers employed in a labour could be accumulated in a single pain, lasting as long as all the natural pains do, no woman probably could escape with life from so great an agony, except that small uumber who are met with, and whose organs, happily for them, make no resistance, but open spontancously like a door, to let the forus pass out. By a beneficent law of the economy, the pains of labour are short, not lasting more than thirty or forty secords in general, and returning once in three or six minutes Undcr such pains or contractions, howeser pormerful, the foetus is safe; for as soon as the contraction is over it lies in the nomb free from pressure, and the placenta, which during the contraction had been violently compressed betwist the womb on which it lies and the child within the cavity,-that placenta, I say, recovers its circulation, and continues during the absence of the pain to periorm all the bronchial offices which belong to it. But, he continues, " if an ergotic pain is produced to last thirty minutes, in a case where the placenta is on the fundus uteri, and to be jammed for thirty minutes against against the child's breech without an instant of relaxation, who can doubt that its circulation is either wholly or nearly abolished; and that when the child emerges at last from the mother's womb it will emerge quite dead or in a profound asphyxia from the long suppression of its placental circulation: Multitudes of children are born dead from this very cause, by the imprudent exhibition of a medicine which as certainly excites a spasm of the womb as nux vomica does that of the other muscles of the body. For my own part, he adds, "I could say that I scarcely give ergot as an expulsive agent; I chiefly employ it at the moment or just before the birth of the child, in order to secure, if possible, a permanent and good contraction of the womb after labour in women who are known in their preceding labours to have been subject to alarming hemorrhage.-Dub. Quarterly Journal of Mcd. Science, Feb., 1851.

# MEDICAL JURISPRUDEACL: 

 1.-Continute from No. 5, juge 227 .
[The cases we considered in the last number of this Journal were all of poisobing by arsenic - the remaining eases are very varied, chiefly of peisoning aky, and possessing considerable interest.\}

Case 10.-Aphyxia produced by the application of the deutonitrate (or acid perritrate) of mercury to the throat.

Way admitted into a provincial bospital with syphititic sore throat, Her gencral appearance sas that of a healhy person; she was not emaciated. This solution (made accordng to lieasley's formula, was applied to her throat by means of lint wrapped round a s'in-alnost immediately symptoms of aphysia cance on. These appeared so urgent that tracheotomy sas comidered indispensable. The patient died under the operation, after respiring faintly two or three times through the opening in the trachea, threc-guarters of an hour after the appliation of the deutonitrate.

Post Mortem appearances.-"The month was in a healthy state, but the pisterior part of the fauces presented y yellonish white appearance, the surface being uneven and indurated, having a lrathery fitt; there was no slough nor excatated ulver ; there was no disease of the laryox, but the epiglotis was corrogated, and presented the same appearance as the back part of the throat; the uper part of the tracbea appeared healhy, but there was increased vasculanity ia the lower part below the inscision. The hargs were of a dark celour and much congested, se."

These parts were transmited to Mr. Taylor, and his opibion was requested tenterning them.
". Iusuers, 1. Death was caused by anphyia, frubably from a spasmodie sosure of the glotis.
"2. The anhysia was raused by the application of the acio pernitrate (deatonitrate) of mercury to the throat, whereby the parts situat d at the upper part of the laryux became implicated, lealing to the spast olic closure of the ma glutidis. There is no evidence that it was cansed by disease.
"Remmes.-I bave never heard of siphilitic sore throat leading to an attach of asphxia from spasm of the ghttis ; while strong escarotics or corrosives, the the dentronitate of mercury, applied to the fauce, may easily cause a fatal attack of this kind. In asphyia, deponding on long standing disease, there se ahays warning eympons; in aphyyir fom acendent, death is always sudden, withou any preliminary attack inditutive of threatened siffecation.
" The fare that symptoms of asphy sia ame chath iy follow dhe application of Eporerful an esearotic, applied in a loow mamer the thont, fully justifies be interence that the aqphyia was causel by the deutonitrate, and no by the fixase. I should refer the corrogation of the cifistutio to the local action of "is corrosive liquan."

Beakley's solution is pronounced to Le highty dangerous and ung fe to apply the throat or fances in a conceutratel form. The formuta for making thas - the Liquor hydrargyri deutonitrati, is-Quick silver one ounce; nitric acid (132) two ounces-dissolve and evaporate to cighteen drachms: (all by weight.)
11.- This is a remarkable case of poisoning from taking a table spoonful of red oxile of lead; about two and a-half ounces. Mr. Tayhor states it is the only case of the kind he has met with. In nime thours after taking it, the patient, a woman, woke with intense pain in the epignstric and umbilical regiona, which resulted in vomiting with relief to the pain-and followed by one harge dejection attended with acute and continued pain ahont the umbilicus. She was treated with sulphate of zine, diluted sulphuric acil, and sulphate of magnesia. (In the second day, a faint blue line formed round the margin of the gums. The urine, which was very copicus, did not give the ordinary re-action usually evideot in fluids containing lead. She wat di-charged well on the 9 th day.

Although this large dise dil not produce mitice serious consequences, red lead, taken in continued small qumtities would doubth se caves all the alarging difcts of chronie poisoning by leal.
13.-Niseteen grains if enrrosive of sublimate were taken in warm tea.Diluents were given freely with album n at an corly perionl-txactly how soon is not stated-but it mut have been within fifteen or twenty minutes, at which time there had been free voniting. In a few days the ginl perfectly recovered without a bad symptom. "Recovery nay be fiarly ascribed to early aud julicious treatment.'
14. Poisoning by the Commen Mussel-Mytitus Edulis.

The boy ate the thick part of two muscels. In forty-tire minutes he was seized with severe pain in the Serobiculus Cordis, heat, giddiness and nanies. There sere swelling and distortion of the face, suffusion of the conjunctisx, swelling of the upper eyelidi and violent itching of the scalp. The body was covered with an eruption simulating scathatina and urticaria. A powerful emetic eas given, with eoppous draughts of warm water. When these had acted frefly, an ounce of cator oil was given, and nest day he was quite recovered. The interest of thiv casc is derived from the small quatity of the mussels eaten, the violence and rapidity of the symptoms, and the gool effects from the early exhibition of the emetic.
15.-Puisuning by Bielaromste of Potass.

About two ounces of this salt were taken. In half an hour the symploms were those of extreme prostration, dilated and fixed pupils, and almoys total insensibility, cramps in the legs, and oceavional vomiting, atteuded with intenee epigastric pain. He was treated with sulphate of zine, followed by olive oil and white of egge, with copious draughts of warm water: magnesia seems to hare been administered also. The stomach pump was emploged until the washings came up colourless. Reaction to $k$ place soon after, followed by very severt gatro-intestinal iuflummation with severe cramps in various parts of the body and limbs. He was bled, and calomel and opium administered. On the forrb day alarming pro-tration set in, with severe and incessant purging, the abdonea swollen and tender, the evacuatious consisting of mucus and blood. Botles at hot water were app;ied to the hands, feet and thighs; hot brandy and water giver, and an anodyne enema exhibited. This treatment was steadily pursued, and the patient recovered after a slow convalescence, uleeration of the bowels haring supervened, which was with difficult $\boldsymbol{y}$ subducd by the use of nitrate of silver and ripeated blisters to the abdomen. He was discharged from the hospital in about four months.
"The cases of poisming by this subst: nee are rare ; no antidete is pointed out in toxicologial works. The first object is to get rid of the poisou; the st
cond to decompose what cannot thus be got rid of. The first may be effected by emetics and the stomach pump: I should be inclined to tely most on the latter. The second will perhups be best effieted by the alkaline earths, although 1 should rather surpect the activity of chromate of lime."

Inumeliutcly before taking the poisnn, he bad taken a large mess of pottage, with which the poison had become mixed; otherwise such a dose would probably have been speedily fatal, from the shoek to the nervous system.

Mr. Tiylor mentions two other cases of pisoning from bichromate of potas:; one fatal in twelve, the other in fiec hours. In the first there had been nether vomiting nor pureing; in the seconl, vomiting only.
" With reapect to the treatment of the acnte stage of poisoning, the remowh of the salt from the alimentary camal by emetics, or the free use of the shmach-pump, is the principal olject. $A$ mixture of carbonate of magnesia, we ciline in linseed-tea, might be exhibited with benelit. Brown sugar, dissolved in water at 102 , tends to decompose the chromic acid, and to reduce it to the lesy irritating state of oxide of chromium. C'hemical antidotes can, however, be of little benefit, unless administered within a few minutes after the poison has been swallowed."
16.-Poisoning of a chilh seren years old foom eating green ornamental confertionary. The green colouring matter was schetle's green, or arsenite of copper.
"The symptoms were similar to those which have been observed in numerous other eaves of poisoning by confectionary anong children. Notwithstanding the perfect insolubility of this poison in water, it is clear that this does not prevent its rapid absorption, when it has entered the stomach; and this fact कhould teach caution in drawing an inference respecting the inertness of a metalhie ealt, merely because water does not disonive it. The symptoms of poisoning with arsenic sppeared in a few minutes. The thirst, burning sensation in the throat and the redness of the conjunctive were special symptoms, indicative of the action of the poison."
" * * * * The sale of this poweriul poison for use in confectionary should be immediately prohibited by las. There is scarcely a year paseg without numerous aceidents being reported to have occurred from this ptruieious practice."
17.-A case of poisoning from eating some fivers, the petals of the Laburnum (oyfishs) . . . . The symptoms came on in fifteen minutes, and womiting supervened; an emetic was given which cffectually cleared the stomach of the flowers. The symptoms gradually sbated, and the child soon recovered. The stomach seems to have been the only part affected.

Another case of poisoning from laburnum howers is referred to in which the tervous system was principally affected, the symptoms being those of great prostration, laborious breathing, twitchings of the muscles of the face withefforts to romit. These were all relieved by the flowers being expelled by an emetic. Other similar cases are on record. "Eytisine, the supposed active prineiple of the laburuum, has been detected in the seeds-whether this exists in the flowtrshas not been ascertained." Every part of the tree seems highly poisonous.
[N.B.-The cytious appears to be a genus almost unknown on the contitent of North America. Pursh describes the cytisus rhombifolius as found in Louisina, but it does not seen to be noticed by later botanists. The Laburnum bill ant stand the cold of our winters rithout great care.]
18.-This is a case of recovery after taking, as mas supposed, $;$ oz of laudanum. The patient said he had taken it about eleven o' clock at night. and lie was not seen till 10 am ., next day. At that hour he stabbed himself in tho side with a ponkuife, in the left side of the thoms ; he appeared heavy, and said he had had no sleep after taking the laudanmm, but pseept the drowsiness and a contracted pupil, had no eymplom of nareotism. The stomach pump brought away fluid having the smell of hudanum. Coffee was administered, \&es; he recovered perfectly from the effects of the mareotic in the course of a fevs days.
"This case is chicfly remarkable from the large dose of tinct. of opuna alledged to have been swallowed. The largest quantity, from the effeet of which an individual has been known to recher was fone ounces."

The fact, that in this case, fire ounces sere swallowed "rests upno the mans' own statement * * * The almost entire absence of narcotic synptoms, can only he explained by supposing, at in other cases of recovery from very large doses, that the man must have vonited freely atter having taken the tincture.
" It is difficult to account for the slight symptoms and ultimate recorty excejt by supposing either that the whole of the pison was swallowed and the great part speedily gected, or that only a small quantity hau beco takes by the patient shortly before he was scea by Mr. Alkwork."
[I confess I entertain great doubte as to this case-it seems almost imesdible that such a quantity of laudaum should remain in the stomach fer dete. hours without producing some decided symptums of narcotism ; and nothing is said of vomiting having occurred in that intersal. At the same time a case which occurred to me many years ago might lead to the idea that this was m: absolutely inpossible.

I was called about seven re right oclock, a.m., to a negro lad, who that taken about ten drachms of laudanum, at ten or eleven oclock the might before. He was then somnolent but eculd be roused, and acknowledged what he had taken. Some sulphate of ziter, and other menal modes of treathent restored him to bealth. He said he had felt me offet from the laudanum all right, nor until he began to move about six o'check in the morning, when-sifar ax I recollect, he took some coffee, and inmednately atterwards, lat telt drowsy,Inis own explanation was that he hed not begru to digest it until he began tonose about. Iregret that I cannot at present find the notes of this case wo as to gine it more in detail-but it substantiates the fact that larcaumm may lie in th: stomach nony hours before producing any effect whatever.

Another case bearing on the sulject has been related to me by a hight esteemed and intelligent friend, Doctor McNaught, tormerly of Jamaica. Agor theman whom I knew many years a;ro, took one morining early, half a dracha of sulphate of morphia, and lay quict fir two hours; he then got up, feelige no effect from it, shaved himself and twok some coffee ; shortly atterwords h? seems to have repentrd or become fightened at what he had done, and sent of a medical friend, but it was too late; he expired in four hours after tahitry the dese. Mere we have an interval of two hours whout any effect whateret frew an enormoue dose of morphia ; apparently, in short, until the absorb nts net set in action, in consequence of the bodily cesertion and drinking the coffe-m: the [uisorone effects were speedily developed.]

We are compelled to defer the reminder of this important abstract tillou next number.

