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## UNIVERSITY OF M6GILL COLLEGE. Faculte of mhdicine.

ThaE ENSUING WINTER COURSE, OF LECTURES, in the Faculy of Medicine, will eommence on Munday, November Session of Six Months.


Montreal General Hospital, visited daily at Noon.
University Lying-in Hospital open to the Students of the Midwifery Class.
In each of the Courses above specified, five lectures per week are given, except in the Cour es of Clinical Medicine, and of Medical Jurisprudence, in the former of which two, and in the latter three only, during the week, are given. The Lecturers in the different departments, will illustrate their respective subjects, by the aid of preparations, plates, apparatus, specimens, etc. etc.

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

## SUMMERSESSION.

The Summer Courses will commence on the second Monday of May, 1849.

Medical Jurisprudence,
Botany, .
by Dr. Fraser.
$\because$ Dr. Papincau.
A. F. HOLMES, MD. \& P.

Secretary Med. Fac.

## SURGICAL INSTRUMENTS.

THE Subscribers have constantly on hand a large assortment of superior Surgical Instruments of the best Sheffield manufacture, consisting of:-

Complete Pocket Cases, of various sizes
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Midwifery do do
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A'n ädditional supply received per vessels this season. -AND-

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Onders from the country will receive particular attention.
S. JONES LYMAN \& Co, Chemists and Druggists, Place D'Armes.
Montreal, May, 1848.
MEDICO-CHIRURGICAL SOCIETY.
HFE next Monthy Meeting of this Society will be heti at the Rooms of the Mechanics'? Instimite, on Saturday Evening, Sept. 2, at 8 oclock Pam. Hector Peltier, M.D., Montreal, Sept. 1, 1848. Secretary.

COLLEGE OF PHYSICIANS AND SURGEONS. THEE next MEETING of the BOARD of GOVER1 NORS of the COLLEGE of PHYSICIANS and SURGEONS of Lower Canada, for the purpose of Examining Candidates for License, as well as for the examination of those about to enter upon the Study of Medicine, will be held, in accordance with the Act of Incorporation. on Tuesday, the 10th day of Ocrober next, at 10 o'clock a.m., at the Parliament House, Montreal.

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

> By Order,

> A. H. DAVID, M. D.

Montreal, 1st September, 1848.

## ETHEREAL SOLUTION OF GUN COTTON.

Prepared and Sold at the Medical Hall, Great St. James Sticet.

THIS recently discovered preparation which hat been used with much success by several Mediat Gentemen in Towr, is a most Efficacious Remedy it BURNS, SCALDS, RECENT WOUNDS, \&e. \&c. The instant it is applied, it forms a coating similar to Gold Beater's Skin; it is more adhesive that the Plas: ter in common use, and is perfectly clean and harmless,
ALEX. URQUHART.

Montreal, August 10 , 1848 ,

## MEDICML AND PHISICML SULENCE.

Vol. IV.]
MONTREAL, SEPTEMBER, 1848.
x Art. XXXII, - OBSERVA'TIONS ON TIIE ClIMATE OF BARBADOFS, AND IT'S INFLUENCE ON DISEASE : TOGETHER WITII REMARKS ON ANGEOLEU. CITIS OR BARBADOES LIEC.

> By Jisaes Burecr., M. D.,

Aember of the Ruyal College of Physicians, London,-late junior Physician to the Barbadocs General Hospital,-junior Physician to the Toronto Gencral Dispensary and Lying. in Charity.
Before entering on the history of the cases which form the basis of this communication, I may premise, that the prejudice existing against the performance of surgical operations in Barbadoes is now, at least, altogether unfounded, and that as far as regards ulterior consequences, they may be undertaken with the same degrec of confidence as in Europe.

To the British or American reader acquainted with the writings of the older surgeons who have recorded the results of their experience on the peculiarites of the diseases of the West Indies, and the effect produced on disease by climate, this may appear a rather bold assertion, for the doctrine hitherto universally taught has been that, except as the only remaining chance of saving life, operations of every kind should be carefully avoided. And in cases of severe injury, amputation was frequently attempted as affording a greater chance of escape from tetanus, from the opinion existing that a clean wound was less likely to be followed by tetanus than a contused or punctured one,that this rule applied not only to such as are consi. dered capital operations, but even to those of a minor character, is very evident, from the instructions on this head given by old practitioners, and, indeed, so great was their aversion to the use of the knife, and so terrille the dread ef tetanus, that even injection for the cure of hydrocele was always undertaken with extreme reluctance. Sir Astley Cooper, in his great work on "The Diseases of the Testis," has published a letter which he received from Mr. Caddell, of Bath,—but formerly a leading surgeon in Barbadoes,-in which Mr. Caddell states that "Ire lost some patients from erysipelas and a few from tetanus. The latter is, I be. lieve, a danger unknown in England, but in Barbadoes it occurs often enough to make a man avoid operations of every kind as much as possible." 'Twenty years ago, and, perhaps, at a more recent period, there can be no doubt but that the dangers consequent on surgical operations were very great, and it seems equally certain that the fatal results of cases submitted to the knife at that period, were attributable to canses over which the science of surgery exercised bis little or no rontrol, having their origin ant of the peculianities of
climate ; and, perhaps, much influenced liy the social relations of the population.
Perhaps the scientific improvements in modern surgery deserve to be credited with a portion of our gratitude for present immunity from such fatal results after operations; but while we admit this, and acknowledge the simplicity and rationality of modern treatment, it is nevertheless certain that some of Mr. Caddell's contemporaries are still actively engaged in practice, pursuing similar methods of operating, but with more successful results than awaited their early practice.
Mosoly; writing in A. D. 1795, says, "I have lost many patients from locked-jaw after amputation, and never found, leaving out the nerves, or whether ligatures were made or not, caused the slightest difference in the event, nor were any security against tetanus, nor diminished the symptomatic fever." He further adds, "Negroes who are most sulject to it, whatever the cause may be, are void of sensibility to a surprising degree-they are not sulject to nervous diseasesthey bear chirurgical operations better than white people ; and what would be the cause of insupportable pain to a white man, a negro would almost disregard. I have amputated the legs of many negroes who have held the upper part of the limb themselves." To the truthfulaess of this latter assertion, we can bear testimony. The negro that has not been brought under the influence of domestic civilization and refinement. (if we may use the expression,) who has continued the life of the husbandman and field-labourer, does seem less susceptible of pain than the white man, and it would appear that nature has given them this power as a bountiful provision, enabling the African to expose himself freely to the sun's rays, which exert no unpleasant influence on his skin, while the white suffers severcly from a temporary exposure. But in those Europeans long resident in the tropics, a darkening of the cutis takes place, which seems to be an effort of nature to establish the pigment which prevents that severe blistering so painful to those not accustomed to the influence of the sun's rays. There are at present in the Island two persons who, from constant exposure to the sun, are as dark as the Demerata Indian, and whose skin, under cover of the clothes, is very fair: on these, the sum now exerts as linle inflaence as on the negro, and considerally less than on the refined descendant of Africa, and in this class there seems to be a diminished sensibility also. On the other hand, we camot support the opinion alvanced, of the greater susceptibility of the black person to tetanus, since there are not in existence data wherewith to construct tatiles sufficiently arcurate to enable us to arrive at a
satisfactory conclusion; and even admitting that such could be obtained, they would be valueless, inasmuch as the black man was not placed under the same circumstances of life as the white. The tormer, living in a state of bondage, was coerced to labour at the will of another, and was entirely dependant on the humanity of his owner for the privilege of exercising the promptings of nature or instinct-thus, under the vicissitudes of weather, through sunshine and shower, he performed his allotted task. The negro is also particularly fond of music and the dance, and many of them would walk miles at night to a carousal, and thus deprived of all rest, go to their daily employment with enfeebled bodies, and, therefore, more susceptible of dangers arising from change of weather. Neither morally nor socially, then, was the slave in an analogous position with his master; therefore the only comparison which could with any semblance of truth be instituted, would be between the slave and the brute-these latter being equally, with human beings, liable to the supervention of tetanus after injuries or operations-a puncture or bruise in the foot of the horse being very frequently followed by this terrible malady.

The surgeon, however, was not deterred from operating from a fear of locked-jaw alone carrying of bis patients, but there were also other diseases frequently prevailing which were peculiarly dangerous and fatal to those who had undergone surgical operations, viz., erysipelas, dysentery, diarrhoa, \&c., each of these diseases appeared epidemically, and were often extremely fatal. It may be urged by those who adrocate the modern doctrine of a more rational humoral pathology, that our present immunity, not only from secondary dangers following operations, but also from these epidemic scourges, might be traced to a change of constitution, occasioned by the altered habits and modes of living of the late slave population; but if this was the only cause, our poor animals who were, as we have already stated, also susceptible of tetanus, angeoleucitis, \&c., ought yet to be sacrificed, since it is very certain that they have not obtained (except in a few instances) any marked alleviation of their condition, but have, on the contrary, heen saddled with much of the labour and drudgery, which emancipation has removed from the descendant of Africa. That much is due to an improved system of dietary, we can have no doubt; and as the periods for the performance of labour are optional with the peasant, those hours are selected which best accord with his feelings and sensations. The labourer, by curtailing the hours athoted to field. work for the estate, has been enabled to devole a portion of his time to the exercise of domestic habits- he has generally a garden plot around his comfortable cottage, the cultivation of which not only occupies his "leisure hours, hut enables him also to procire many litte homely comforts, and to vary his frod as he pleases. Under slavery, it is true, that as a general rule, their food was plentiful and regularly served up, yet the slave was obliged to receive that which was given him, changed only by the market-price of the article, or at the will of the owner.

Nature points out to the negro the necessity of pre-
serving himself against the inclemencies of weather, and to be careful of sudden alternations of heat and cold. There is nothing that he dreads more than the night air, especially if ihere be a brilliant moon and a cloudless sky; for while in the noon-day at a temper. ature of $100^{\circ}$ Fahrenheit, he sleeps on the bare earth, a stone for his pillow, and his eyes upturned to the full glare of the sm, on the approach of night he wraps up warmly, and shelters himself leneath an umbrella. Metcalfobserves, "that the Africans when removed to the West Indies, where the maximum temperature is from ten to twenty degrees lower, are unable to oltain caloric from the atmosphere by respiration as fast as it is abstracted by the surrounding media, especially in the high lands, or during the prevalence of northerly winds, and carly in the morning when the air is damp. The consequence is, that under such circumstances they are to be found shivering with cold, but never complain of the most intense heat of the sun, which is no less delightful to their feelings than conducive to their health." This fact we have seen re. peatedly exemplified by the black patients in our hospital, who frequently request permission to sit in the sun at midday, and we have as frequently seen those, who, from inability to leave their wards, have been compelled to remain within doors, cover up even their very heads under the bed clothes, the temperature of the air being anything but sgrecable to a white person.

If, then, it be true, that the descendants of Africa are, above the rest of mankind, dependant for their health and comfort on the great fountain of light and heat, may we not derive much gratification by knowing that, besides the great moral excellence of emancipation, we have, by abridging the demands made on the physical capabilities of the negro, enabled him to follow the promptings of nature, which teach him to guard against changes of weather, and to shun the dews of night. It is now impossible to get the labourer to his work before sumrise-their race must he run with the sum-and the coming shower is avoided with much care.

Of all the sub-divisions of general philosophy, there is none so little entitled to the name of science as meteorology. Chemistry, with its innume rable resources, fails to discover in the atmosphere any deviations from its natural healthy composition. The thermometer and barometer exhibit no deviations from, the ordinaty standard of temperature or weight of the atmosphere, which are capable of affording information as to the origin or catse of many phenomena. We know ahsolutply nothing of the laws which control or regulate epidemic visitations, hor can we at all discover those which seem to regulate and govein revolutions-if we may employ the tem-in the cli mate of different cominies.
In some instances these changes are silent and perfectly incognizable to our eye or feelings, manifesting themselves only by a general improvenent in the salutary state of the comatry, either in a greater uildness of the ordinary discases of the place, or liy the absolute amihilation of others which were previously en-
demic-as an instance we may take trismus mascen. tium, a disease of very common occurrence with tisyet, although from this very fact, greater cantion was used and more care taken ol infints (particularly those of the labouring class) than at present, the malady is now scarcely known; again, arriculture exerts oftentimes a palpable change on the healthfulness of a place, yet we cannot assign this as a cause operative in our case, since cultivation has been carried to every rood of land for years past, and but little opportunity affordeil to accumulations of decaying matter. Perhaps our freedom from insect life may in some way explain the change-but of this hereafter.
"We certainly perceire," observes Dr. Chowne, in an oration belore the Medical Society, "withont rererting to proofs which geology might supply, that in the progress of ages and of centuries the temperature of other climates and our own have undergone considerable change, as is cvinced by the formerly frozen state of the Mediterranean (1775) along its shores to the distance of fifty leagues, according to Glycus; in the Adriatic having been frozen in the time of the Romans, in the constantly frozen state of the Rline and the Danube, and other rivers of Gaul and Germany, during the winter, making it necessary to cover the ico with straw to render the passage over them secure, according to Diodorus Scculus ; in the freezing of the Euxine, according to Ovid; in the hreaking of the ice of theTiber, in order to obtain water for the celebration of superstitious rites, as alluded to by Jurenal; in the instructions for protecting the catte from the inclemencies of an Italian winter, as given by Virgil ; in the earlier period of our own former harvests, and in the unclothed state of our canly inhahitants, as recorded by Cesar ; in the growth of large luxuriant wood on our highest hills, in situations where, from the degree of cold which at present prevails, they would not grow, as commented on by Kirwan; in the larger growth of our black cattle, as recorded by Roliertson; and in the numerous other examples furnished by the animal, regetable and mineral kingdoms of this and other countries." The same observations apply with equal foree to dis. eases, which undergo variations in their constitution no less romarkable, rendering their tratment at dif. feremt epochs entirely opposite, demanding the utmost vigilance and study on the part of the physician. Dr. Graves, in his insaluable work, "Clinical Medicine," gives a translation of Professor Autenceith's observations on this subject, which are so very cxcellent and applicable to our present purpose, that no apology is needed for their introduction,-"All discases conta. gious and non-contagious, acute and chronic (the latter, however, seldom, except when attended with some degree of general excitement) have been ohserved to preserve a certain constituition or gencral character which continues for a number of years in succession, with occasional interruptions, until it is displaced by another constitution of a different character. Thus, during one period diseases are remarkable for being frequently accompanied by a sensation of extreme weakness, sudden sinking of the strength and vital powers, unpreceded by any evident marks of excite.
thent, and attended ly a disposition to pass into true typhus. During another period, the tongue is in general loaded with a thick white or yellowish fur, and many other symptoms of derangement in the digestive organs, such as bitter taste, costiveness, or diarrhoa, are constantly observed.

During a third period, diseases are characterised by a remarkable degree of vascular excitement, an evident tendency to local determination, a frequent formation of morbid productions, in a word, by ail the symptoms of inflammation.

It is not known whether the transition from one of these periodic constitutions to another takes place suddenly or gradually, but the latter supposition appears more probable, except when the transition is accompanied by unusually great atmospheric changes.

The erysipelatous affection which, both in England and Germany, succeeded the gastric, and accompanied the first appearance of the inflammatory period, seems to have been an example of the gradual transition. Accurate observations are still wanting to determine whether this periodic constitution is confined to certain parts of the world, or extends over the whole, and whether its difierent species follow each other in a regular order of succession. If their order of succession should at any time be determined, it will enable the physician to foretell the character and most appropriate treatment of future discases.

The general indications of cure, vary with the nature of the prevailing constitution, and consequently during one period stimulating remedies, luring another alvinc evacuations, and during a third venesection and the antiphogistic plan, will constitute the most eflicient treatment.

This very ciremenstance has caused much confusion in medical opinions, and has occasioned the reputation and downfall of many an infallible system, each of which is in its turn consigned to oblivion, and perhaps again revived as a novelty at some future period. The English boast much of the astonishing improvements in science, and deride the ignorance of their predecessors, regardless of the old proverb, "Everything has its day." Whenever, therefore, the periodic constitution modergoes an alteration, they either obstinately uphold their usual plan, or clse blindly embrace some sy:tem, to them new, but which really rests upon ancient and established principles. In general, they do not fail to make so much exaggeration in support of their opinions, and thus suecced in misleading so many, that none but very well informed physicians can distinguish the fallacy of their arguments. The medical history of Great Britain affords many striking proofs of these assertions, and is replete with examples of the singular obstinacy with which the English cling to opinions once formed-a circumstance which has materially contributed to obstruct their attaining to gencral views and impartial conclusions. Even to this day, a warm contest is carried on (less, however, in books, than in the debates of learned societies) between the senior and junior parts of the profession; the former still inclining to Brunonianism, while the latter attribute nearly all diseases to inflammation.

Both, indeed, appeal to experience to prove the justice of their principles, and seem entirely to forget that while the propricty of their practice as applicd to particular cases remains mimpeached, the very nature of the discrisrs themselves, may have been changed. A summary view of the character assumed by diseases, during the last wenty years, both in England and in other countrics, will perhaps afferd a solution of this question. About the end of the last, and during the first three or bour yuars of the present century, the proportion of nervous fryers to uther diseases, was as one to eighteen in Pymouth. (Woolcomlie), as one to sixtecn in London, (Willan), as one to ten in Neweastle, (Clark), and in Liverpeol, one to five, (Curric). Nor was this scourre of mankind less severely felt on the Continent, where typhas, and the diseases closely allied to it, committed extensive devastations, particularly during the cpidemics of Erlangen, Jena, Kiel, Ratisbon, and Viemar; Cadiz and Seville were at the same time depopulated by yellow fever, and Europe in general suffered much from repeated visitations of the influenza. An inclination to a sudden sinking of the vital powers, unpreceded by violent reaction, and unaccompanied by any marked symptoms of a gastric or inflammatory nature, constituted at that period the characteristic form of acute discases, which were always preceded and attended by an unaccountable degree of debility. Stimulating and tonic medicines ontained, therefore, much celehnty; and every physician who practised during that period, attests the injurious or even fatal effects which were produced by venesection and other depletory measures. What is still more remarkable, an epidemic typhoid pucimonia, prevailed in many parts of Germany during the ycars $1800-1,2$, in which the speedy production of an inflammatory state by meaths of bark aud ether, was the only method which afforded a chance of recovery. These facts must im. press every impartial mind with the conviction, that the constitution of discases has undergone much alteration since that period, and explain why physicians did not then employ copious renesections, but were obliged to content themselves with ordinary cold affusions, acids and mercury.

The reign of typhus appears to have ceased with the influenza of 1804, when a new constitution begran -at first more remarkable for the disappearance of nervous fevers and other contagious disorders, than for any peculiar character of its own. Catarthal and rheumatic complaints, partly attributable to the weather, prevailed for some time, and fevers of an intermitting lype became more frequent, forming an evident trausition from the purely typhus constitution to that of the vascular excitement of the following years. Some remnant of the typhus constitution was indeed still perceptible in the pectoral complaints which prevailed in London during the winter of $1804-5$, and were attended with remarkable debility, requiring the greatest prudence in the use of the lancet ; venescction was indeed often entirely contra-indicated, and Bateman says, that it sometimes even proved fatal. The constitution, however, soon developed itself more decidedly, becoming more universally diffused, and obliged physicians
to relinquish their former plan of treatment, and adopt other measures. Derangement of the alimentary canal hecame its prominent feature in the summer and autumn of 1804, and diarrhoa, termimating in dysen tery, was often met with.

This constitution suffered, indeed, a check from the cold of 1805 , but it increased agrain during the following years, and afterwards became still more prevalent, manifesting itself by headache, a bitter taste of the month, a loaded yellow tongue, irregularity of the bowels, nausen, and anorexia. The utility of purgatives became now so ol,vious, that Itamilton's doctrines som ohtained as much celebrity as had been before engaged by the stimulating system. The nervous fe ver in Nottingham in 1807, the dysentery in London in 1808, the scarlatina in Edinburgh in 1805, and the measles in the same place in 1808, all required the purgative plan of treatment, and calomel became the favourite cathartic." The advantage thus derived from the purgative plan of treatment is abundantly testified by the writers of that period. This gastric constitution appeared on the continent, but its progress was less rapid there than in England, where the inhabitants live in a manner calculated to augment or even to pro. duce a tendency to gastric diseases. There were likewise other circumstances which impeded the for mation of this constitution on the continent. Thus it Germany, the purely nerrous constitution had scarcely yielded to catarmal and theumatic afiections, whenit was again revived in that unhappy country ly the po litical occurrences of 1805-(;-7,-typhus sehlom, how ever, assumed the character of cxquisite, for the rheu matic and catarthal aftections with which it was mixed partook some what of a gastric nature, as was proved by the great benיfit derived from emetics and calomel. This appears in accordance with the fact that the gas tric constitution was more fully developed where the ravages of war had not extended, although it required less attention in the treatment than rheumatic symp toms, then likewise prevalent. Thus the agues which ware common at Tubigen, about the cad of 1806 commenced, in general, with pain in the belly, vomit ing, and irregularity of the bowels, a yellow furred tongue, headache, and tumors of the parotids were of frequent occurrence, and, in gencral, gastric symptons were by no means rarc. These symptoms graduall grained ground, and the reputation of ipecacuanha and cathartics increased in the same proportion. At Ratisbon the constitution was renarkahly gastric in the autumn of 1809 ; and a nervous fever prevailed a Weimar, in 1809-10, which was accompanied by bitter taste in the mouth, diarthon, nansea, and verib go. Acute catharsis was injurious in this epidemin but much benefit resulted from the cxhibition of castom oil. The admantages, derived about the same tine in Berlin from the treatment of fevers by enctics am cooling purgatives, proved that they were there also complicated with gastric derangenent,

To be continued.

Anr. XXXIII- - M MEDCO-LEGAL, ESSAY ON FATAL DOSES OF PRUSSIC ACID.

By Wm. Wright, M. D., Curator of the Muscum, M'Gill College. (Continued from page 99. )
Called to a person who has died from poisoning, it is customary for medical jurists, before performing the sectio cadaveris, to note the relation of the body to surrounding objects, the place in which it is found, its position and that of things in its neighbourhood. To examine the spot on which the body was discovered, the soil or surface on which it lies, the clothes of the deceased, and the body itself, which includes the discovery of the sex, probable age, stature, degree of corpulence, colour of the hair and eyes, and any peculiar marks which may exist on the catancons surface. The duration of the presence or absence of animal heat, of cadaveric rigidity, and putrefaction, must also be carcfully attended to, since the most certain signs of death depend upon them, and the length of time the party has been dead, is most accurately denoted by them.

Post mortem appcarances observable in persons poisonca by Prussic Acid.-Exterior.-"The body," says Taylor, "commonly exhales a strong odour of prussic acid." Colouless fluid, probably saliva, may fill the mouth, or have trickled from it, which, as well as the lips, smells powerfully of the poison-depending parts are discoloured by hypostatic congestion. Inmodiately after death there is great rigidity of the mus. cles, but it is soon succecded by an opposite slate of flaccidity. Putrefaction, as in other cases of sudden death, may be rapid. Much that is applimable here has been before commented on. Vide sections of the eyc, face, ©uc.

Intcrior_Heal.-While removing the scalp and calvarium, much blood usually flows from its wounded vessels. The meningeal and cerebral veins are generally very much distended, with dark hlood. There is rarely any unnatural accumulation of serum within the veritricles. In one case, a considerable watery eflision oecupied the sac of the arachmoid. An extravasation of blood has been foumi between the extemal membanes of a horse, and a strong smell of prussic acid has, in several instances, been detected, from diflerent parts of the encephalon.

Chest.-The ndour of the acid is gencrally very appreciable when this cavity is opened, and has frequently been detected in it, when not manifest any where else. The same, Mr. Hicks has proved to holl good with the lower animals, and he has recognised it there immediately after death, in rats destroyed by miv. of the acid, when it did not exist cven in the stomach. Heart.-In some subjects, all its cavities are charged with blood, while in others, merely those of the right side, the left being empty. Mr . Nunnelly, from his experiments on brutes, found that if from any cause death were delayed, all the chambers of the heart, and especially those of the right side, contained more or less blond. If, on the other hand, the death were sudden, the left cavities, and principally the ventricle, vere empty, and rigidly con-
tracted, while the right side was in some, though by no means in all, much distended. These results admit of application, by analogy to the human subject. Magendie states, that the heart has its irritability so completely and immediately extinguished by the pure acid, that it is insensible, even to the stimulus of galvanism. This, however, later investigators find, not to be universally an immediate consequence. Lungs.-Guy writes thus, they are " sometinies pale, more generally gorged with blood," especially in dependant parts, which may, on that aceount, be of a black colour. When cut into, their colour is " a light rose pink," particularly in those situations from which the blood has subsided. The large bronchi have been filled with a reddish, frothy serum. The aorta and its branches are almost always empty, while the pulmonary artery, and other veins are filled. "The larynx, trachea, and cesophagus have been said to be reddened."
Addomen.-The odour has been detected, in some, in the peritoneal cavity, particularly in the vicinity of the stomach; in others, solely when the latter has been opened; it is generally inappreciable in the intestines, a sour smell existing in lieu of it. Mr. Hicks detected it five days after death, in the stomach. The peritoneal covering of the intestines, has had a reddish tint. Dr. Letheby remarked in all his cases, a particularly congested staic of the whole gastric internal surface, with occasional white patclies and red dots. Dr. Geoghegan declares that the only morbid appearance worthy of note in a man, who had died from zi. of prussic acid, was a patch of dark red extravasation, under the mucons membrane of the stomach, near the pylorus. The stomach, in this case, exhaled the odour of the acid, although it had been exposed for three days. Taylor states, that "in some rare instances," the stomach and alimentary canal "have been found inflamed." Mertzdorf examined two cases, where the gall-bladder had a blue tint. The kidneys and liver, are usually much congested with venous hood.
The Blood-Is of an unusually dark colour, with a glimmering hue tint, is perfectly fluid, flows out copiously from a cut surface, gives out a strong odour of prussic acid, and is collected in the veins. The colour alovo mentioned, possibly, might not lic present, for, in some exceedingly rare cases, it has been highly florid.
Remarks.-Fros the above details, it is evident that the post-mortem appearances, observable in persons poisoned by prussic acid, result from an accumnlation of fuid blond, of a dark blue hue in the veins and their capillaries, in fact, that they are those of asphysia, and as this condition aries from such a multiplicity of causes, no direct proof can be obtained from them alone, of the particular agent eimployed in their production. They are serviceable in disproving that a corrosive or irritant had been swallowed, and that the poison had been introduced into the stomach after death. Et Knowing that prussic acid acts so rapidy, and produces these leffects, it is not justifiable, if its presence be found at a postmortem, to imagine that they were due to some circumstance operating during the tirre that existed between the former's reception and the patient's death. Tishould morbid alterations be present they, as a rule, do not re.
sult from this poison, since its action is so transient that no time exists for their generation. With regard to the state of the heart, I think it may warrantably be asserted that, when death is rapid, its left eavities will be empty, as in annea, or deali commencing at the lungs, and that when dealh is slow, all its cavities will be full, as in asthenia, or death commencing at he head. Another important fact, especially to the practitioner, is that the irritability of the heart is rapidly exhausted. Hyperemia of the gastric mucous membrane, is always to be expected, either universal or partial-continuous or intercepted, and possibly interspersed with white patches or red dots. The colour of the gall-bladder above alluded to, was, not improbably, due to the deposition of prussian blue. If so, it tends to prove that the latter is formed in the blood, and that the liver aids in depurating the jatter of the former. The odour may be detected from several sources, and it is not impossible that it may be ound in the chest, when absent every where else. Its fpresence in the blood and internal cavities, shews that it has been absorbed into the vessels, and transmitted through the invisible pores of their parietes and neigh. bouring tissues.

Tests for the detcction of Prussic Acid.-It has been said that they are useless if the body have been above ground for three, or have been coffined for sceven days. That this is not invariably the case, will shortly appear.

The Odour.-1. As scveral observations have already been made concerning it, I will now merely allude to three or four points connected with it.

When the acid is diluted, the odour resembles that of peach blossoms, and leaves a peculiarly acrid sensation on the fauces. It is very similar to that of nitro benzine, and to a smell that is said occasionally to arise from the viscera of those who had never taken Prussic acid. The, testimony it aflords is most conclusive, if it be derived from the blood, or parts to which there is no access, cxcept by the circulation. It may not be appreciable if the body have been long exposed before it is examined, especially to the open air, or a shower of rain, or other circumstances favourable to evaporation'; if the dose be small ; if it be much diluted, decomposed, or predominated over by other odours, and if the person have lived long enough to exhale it freely from the lungs. The following will serve to illustrate the period it may be gersistent: In a case reported by Mr. Norbland, he said it was absent eighteen hours after death, when the body was examined, while two of five witnesses declared they detected it. According to Dr. Letheby, it was evident for twelve hours; and according to $\mathrm{M}_{\mathrm{r}}$. Davies, for seventeen ro eighteen hours after death, about the mouths of C.W. Duckett, and E. Williams, whose cascs have already been mentioned. Mr. Taylor (Elements Medical Jurisprudence, 1S44,) believes scven days, after the taking of the acid, to be the longest time that its odour has been found. But this must only be considered as the mean duration ; for Dr. Lonsdale, during his experiments on dogs, experienced it for eight or nine days, post mortem, and four or five days after the failure of chemical tests in the detection of the poison. Hence, as Orfila contended, the odour may detect prussic acid when chemical tests fail to do so, twenty-lhree days after death, is, I
believe, the longest time that tests have proved the presence of the poison. This is on the authority of Mr. West, in the Provincial Medical and Surgical Journal, July 1845, who says, "I have distilled a portion of the contents of the stomach at this time, twenty-three days after the poison had been taken, and find the smell, the precipitate with nitrate of silver, and the prussian blue precipitate; all these are produced, apparentls, in the same degrec as at first."

The reagents employed in the chemical analysis of a liquid supposed to contain prussic acid, are the nitrate of silver, protoxid of iron, sulphate of copper, either alone or with tincture of guaiacum, and the sulpho-cyanid of ammonium. To each of these, a few remarks will now be appended.

1. Nitrate of Silver.-Induces a white precipitate, the cyanid of silver, the properties of which are.-First, its solubility, if bully in boiling, and if scanty in cold as well as hot nitric acid. Second, its solubility in the vola. tile and fixed alkalis. Third, by heating it, the cyanogen eniering into its composition will be cvolved, which, when inflamel, burns with a rose-red coloured name; and when imbibed by bibulous paper, wetted with a strong solution of the mixed oxides of iron and subsequently dipped in dilute sulphuric acid, causes a stain of prussian bluc. lis nature may also be illustrated by the following procedure of Mr. Austin's (London Lan. cet, July 1846):-Mix the precipitate with a sinall quantity of oxid of iron and carbonate of potash; fuse them ; dissolve the mass in $\bar{z}$ ss. of distilled water, filter and acidulate by a few drops of hydrochloric acid. Divide the solution into two parts, to one of these add a few drops of a solution of suphate of copper-to the other a like amount of tincture of iron; in the lirst a chocolate brown, and in the last a blue precipitate will subside-prussiates of the respective bases. When operating on complex mixtures it is to be remembered that organic matters, heated in contact with an alkaline bass or metal, will produce cyanogen. Nitrate of silver, if added to a solution of the acid, detects pt. 1 of it in pts. 7650 of liquid; but if a watch glass be moistened with it and held over the solution; $\mathrm{p}^{1}$. 1 of the latter in pts. 15360 of its menstrum will be detected. The least amount of cyanid of silver, from which a flame can be obtained, is $1-10 \mathrm{gr},=1.50 \mathrm{gr}$ anhydrous acid $=\mathrm{gtl} . \mathrm{i}$. of pharmacop. arial, or less than gtt. i. of Schecle's. When less than this the other modes of proving eyanogen may be successfully instituted.
2. Protoxid of Iron.-Add a protosalt of iron and then an excess of liquor potasse, remove the grayish green precipitate thus induced by sulphuric or muriatic acid, and after exposure to the air prussian blue will be produced, visibly tinting the liquid by the intensity of its huc. Mr. Taylor says, "This test is peculiar to prussic acid and free from all objections." When added to a solution of the acid it detected pt., of it in pts., 920 of fluid; and when a watch glass was moistened with tho test and held over the solution of prussic acid, pt. I in pis. 9840 . These statements prove that it is ! th les: delicate than the former tesi.
3. Sulphate of Copper.-Supersaturate the liguid with potassa, then add sulphate of copper when a greenist
precipitate will sulside and will change to a white on the addition of a little hydrociloric acid. It discovers the poison in 20,000 parts of water, but, according to Pe reira, " the results are not sufficiently striking, and the inexperienced manipulator may fail in getting any evidence of hydrocyanic acid."
4. Tincture of Guaiacum and Suiphate of Copper:When the tincture is added the hydrated resin of guaiacum falls down, and, hy the subsequent use of the sulphate, a blue solution is produced. The propriety of considering this a test is, I think, questionable, since the eflect of adding tinct guaiacum to any agueous menstruum is that just mentioned; and the resilt of adding Co. Tr. guaiacum, which contains ammonia, to copper, is a blue solution. Spt. nitric ether also strikes a blue color with tinct of guaiacum.
5. Sulpho-Cyanid of Ammonium when added to a persalt of iron as the muriated tincture, causes a very deep blood red color. This reagent may be prepared by adding a drop of sulphuret of ammonia to a very weak solution of prussic acid, and heating it until it becomes colorless. It was proposed by Liebig in April 1847; is very simple, characteristic, unobjectionable and delicate, succeeding where the protoxid of iron fails; so that Liebig has "done for prussic acid what Reinsch has recently llone for arsenic." Mr. Taylor (Medical Gazette, April 1547), offers a modification of the above, which consists in preparing the sulphocyanid of ammonium by exposing hydro-sulphuret of ammonia to the rapors of prussic acid. The advantages of this latter, "are the avoidance of heat, and the objections to which its employment gives rise, and its applicability to organic substances, even in a state of putrefaction." I may add, that the blood red color above nentioned is quickly removed by a few drops of bichlorid of mercury.

Proccdure for the Detection of Prussic Acid.-Exclusive of the ordinary observances and precautions that should be enforced at every important sectio-cadaveris, particular attention :nust be directed to the state of the eyes, lips, face, muscles and gencral surface, to any odor that can be detected from the month, nose, \&c., and the cavities immediately after they have been carefully disclosed. The gastric and other veins are to be incised and their contents minutely examined. The state of all the internal viscera, particularly that of the larynx, fauces, csophagus and intestines is then to be ascertained, but the stomach is the organ to which we are chiefly to look for evidences of the poison; very great care must therefore be observed during its removal, before doing which, it should not be neglected to apply ligatures to its orifices, or, perhaps more correctly, to the lower part of the esophagus and duodenum as well as to the bile and pancreatic ducts. On opening the stomach the odor is first to be obtaned, if present ; and, for the sake of eertainty, it is advisable that our opition concerning it be confirmed by the testimony of other witnesses; the contents are then to be preserved as well as the products obtained by washing its casity with water and alcohol. The fluid portion of these is to he separated by filtration from any insoluble maters, and is finally $t 0$ be tested. Unless it he colored where it should, as Orfila proposed, he agitated or digested with charenal gad
refiltered before the application of the reagents. If no indication be afforded from the liquid being complicated with organic matters, these are to be isolated by placing the mixture into a retort and distilling 1-Sth of it, by the heat of a vapor bath into a receiver kept cold; when it is alkaline, from decomposition, it must first be neutralized by sulphuric acid. It there should be any vomited matters, which is very unlikely, or if any of the poison or liquid in which it was taken remain unswallowed, and be attainable, they are to be treated in the above manner. An objection has been raised to the employment of heat, owing to prussic acid being generated by the decomposition of animal matter. "This," says Dr. Guy, "is a mere conjecture, altogether unsupported by experiment." It has also been contended that hydrochloric acid might pass over and embarrass the results. But this can only occur when the liquid is highly acid, and it is then avoided by neutralizing it by potassa and adding acetic acid before commencing the distillation. Assuming, then, that a clear liquid has been obtained, how should it be tested for prussic acid? The following procedure would be, I conceive, most appropriate and conclusive. Having marked its odor, divide the liquid into two portions, from one of these obtain cyanid of silver. Expose a portion of it to heat and either inflame the escaping gas or convey it into an alkaline solution of the mixed oxides of iron; after the decomposition remove the surplus oxid of iron by sulphuric or hydrochlo. ric acid, and prussian blue will be left. Treat the remaining cyanid of silver in the way recommended by Mr. Austin. Obtain sulpho-cyanid of ammonium from the other portion of the liquid, either by Liebig's or Taylor's method, and add to it a persalt of iron: lastly, remove the blood red color thus caused by bichlorid of mercury. If the liquid originally obtained be in large amount, and smell strongly of prussic acid, all the tests may be applied in the order given in a preceding page. If the results of these procedures be those previously recorded, the evidence of prussic acid in the fluid, is indubitable. But it is from the integral and not from the integrant portion of the analysis that this conclusion must be deduced, as thereby any fallacies which appent to the latter are averted.

Before procecding with the above measures, trial tests may be instituted by dipping strips of white paper in the liquid, and afterwards moistening them with the reagents, or a little of it may be put into the bottom of one watch glass, while that of another is moistened with a strong solution of the test. The concave surfaces of the tivo are to be brought, vis a vis, and left so for a shot time, when, if the acid be present, it will have come in contact with the test and produced the specific charge. The volatility of the acid may he accelerated by the application of the flame of a spirit lamp to the conver surface of the glass containing it.

Besides these manipulations with the liquid, the stomach is to be placed in water for some time, and then transferred to a botlle having a wide mouth, over which there is placed a watch glass moistened with nitrate of silver on its concave surface, or that looking to the interior of the bottle. In ten minntes a film of cyanid of silver has frequently formed. After this another glass:
moistened with liquer potasse, may be phaced over the botte, sulphate of iron and niuriatic acid being subsequently added, when the characterisic prussian bue may be developed. This simple plan has succeeded when tests applied to the liquor obtained by distillation have failed to prove the existence of prussic acid in it. On the same principle, before opening the cavities of the abdomen or chest, particularly the latter, a small aperture has been made in the parietes, and a watch glass, prepared in the above manner, accurately fitted, and in half an hour afterwards satisfactory results have been palpable.
Supposirg that prussic acid has been found in the stomach of one who has died suddenle, is this a suffieient prool that it caused death? If the quantity be large, the notural regoinder is an aftirmative, but a little reflection will shew that it may have been introluced there after death, or that the person may have died from disease after taking it." The answers to these jossibilities, it will be remembered, were given in a former page, and will therefore not be transcribed here. Again, it may be said that prussic acid was generated in the stomach, from the putrefaction of various animal and vegetable matters-as unsound cheese and erget of rye. This, however, is overruled when the poison is also dctected in the blood and distant parts of the body.
The two great forms in which prussic acid exists are the anhydrous, or without water, and the hydrous, or with water. With the latter alone we, as medical juriste, are concerned. 'All estimates of the strength of the hydrous are determined by the amount of anhydrous they contain; hence the utilisy of knowing some process by which this may be discovered, such as the following which is both simple amb exact : -100 grs. of the acid are to be added to a solution of nitrate of silver as long as any precipitate (cyanid of silver) is formed, this is to be collected on a miker, whose weight is hnown, then washed and dried by a heat not over $212^{\circ}$. All the wate: heing expelled, aseertain the weight of the filter and the precipitate, from which substact the original weight of the filter, when the exact amome of crand of silver, that has been formed, will he known. This divided by 5 gives the amomt of anhydrous acid in the 100 grs- 5 is used as a divisor, hecause the atomic weight of cyanid of silver is 27.33 , that of anhedreus prussic acid 134.56 or almost as $1: 5$. The chief varicties of hydrous prussic acid that are net with are-1. Sclicule's, which contains 5 per cent of anhydrous acid; 2. Veuquelin's, 3.3 per cent; 3. London Pharmacopueia, 2 per cent; 4 . Edinb. Ph., 3.2 per cent; 5. Dul. Ph., 1.6 per cent; 6. Other specimens which may vary from 1 to 30 per cent: Hence, equal amounts of dilerent specimens produce very dissimilar consunences when taken; amal as the sane prearation, at diferen times, wate greatly in strengh from evaporation and de wompostion, a solution is atforded to the prollem, why the remaking and taking of an hurtess preseription, has heen fotai when dispensed by diferent druggists, or by the same druggists from different kinds, or coen the same kind at different times.

The quantily of Prussic Mcid thut conslitutes a fatal dose, i. e., " dose that desiroys: life.-The thallest
fatal tose is stated to be that taken br the seven Parisian Epileptics, waich, according to Orfila and Christison, was equivalent to $=-3 \mathrm{~m}$; and according to Taylor and Guy, to 7-101h of a grain of pure or real acid. These statements are, howerer erroneous, and so, in conse. quence, mast be the numerous corollaries that have been deduced from them, for Professor Guibourt (Pharmaceutical Journal, May, 1845 ) has proved that the exact dose swallowed by cach invalid was equal, at least, to $5 \frac{1}{2}$ grs. of anhytrjus prussic acid, and that the fatal mistake arose from the dispenser of the pharmacie centrale making a syrup of prussic acid for their use from anhy. drous, instead of frem Scheele's acid, by which the preparation contained 19 grs. instead of 11 grs. of anhydrous acid to the $\overline{3} \mathrm{j}$ (French).

To illustrate the present subject I have compiled the following table from a number of cases, the most acclrate of which have only been retained:-

| Age. |  | Quantit <br> rousAc | Strength of | Quantity of Aubydious Acid. | When the Symptoms occurred. | When Death occurred. | Case reported by |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M | 3 s. mal. |  |  | Immediately In 2 minutes |  | Dr. Banks Mr. Nunaelly |
| 2 | ${ }_{F}$ |  | $\mathrm{s}_{1} \mathrm{P} \cdot \mathrm{C}$ | ${ }^{12}$-10 grs. | Instantly | In 5 minutes | , Hicks |
| Adult |  | -- ziss. | $15 \mathrm{j}, \mathrm{c}$. | $4 \frac{12}{} \mathrm{gr}$. | lin a ferv minutes |  | A. Sobernheim |
| 21 | M |  | 1.6p.c. | Nearly 2 grs. | In. 3 minutes |  | Dr. Geoghegan |
| Adut | M | 5 yss . | 11/ f ¢ c. | About 5 gr . | About 3 minutes | In 3 of an hour | Mr. Nunnelly |
|  | . | 3 vij. |  |  |  | In 5 minutes | MT. Sobemheim |
| Adult |  | ${ }_{5}{ }^{\text {a }}$ vij | Commo |  | In less than? minutes | In 4 or 5 minates | Mr. French |
| Adoiescen | F | 5 j . | P. | 24 gr . | In one minute | In 5 minute | Mr. Hicks |
| Acult |  | ${ }_{3}^{3} \mathrm{j}$-01 | Alcoholized | 40 gr . | immediately | In 5 minutes | M. Hufeland |
| 44 | M |  | $5 \mathrm{p} . \mathrm{c}$. | 12 gr . |  | In 5 minutes | Mr. Godfrey |
| Adult | M | 亏 ${ }^{\text {vij. }}$ | over 3 p.c. | About 21 gr . | In about I minute | Tess than 20 minutes | Dr. Sewell |
|  |  |  |  | $5 \frac{1}{3}$ grs to each. | Had begun in 10 min . | 15 to 45 minutes | Case of 7 Epileptics Dr. Geogheran |
| Aduit | M | maxis | $j 2, \mathrm{f} \cdot \mathrm{c} .$ |  | In 2 minutes | In 2 minutes | Dr. Geoghegan <br> Dr. Christison |

Inferences.-1. That the smallest fatal dose is $9-10 \mathrm{gr}$ anhydrous acid.
2. That the largest dose from which recovery has occurred is 42 grains of the anhydrous acid.
3. That the boumdary between a harmless and fatal dose is indefinite.
4. That the shortest time in which death occurs from a fatal dose is 2 minutes.
5. That the longest time in which death occurs from a fatai dose is 45 minutes.
6. That a small dose ( $9-10$ grain) has killed as rapidly as a large one ( 10 grains), and hence celerity of action is not invariably dependant upon the amount of poison taken.
7. That equal doses do not kill dilferent persons at equal periods.
S. That 5 minutes might not unjustly be considered as the most common duration of a case of poisoning by prussic acid.

With regard to No. 6 inference, it may not be amiss to mention the circumstances which affect the poison's activity. These are-the age, strength and organ of the midividual, empty or full state of the stomach, quantity and degree of concentration of the poison, the repetition of the dose, and the mode of its aiministration. From Mr. Nunnelly's experiments it appars. as might be expected, that the more vignons ani nged the animal, the larger the dose required to destroy iite. The very young, however, seem iess susceptible than those of the same species who are a little dider than them. The empty state of the stomach is the most favorable to its action and place-possibly the reason why the same animal is not similarly affected by the same dose at different times.

Commenccment of the Symptoms.-Much detail under this section is rendered mmecessary by the statements had down when discussing the indications of poisoning by prussic acid, so that, at present, I shall merely draw attention to some of the facts contained in the preceding schedule.

1. That the symptons may conmence immediately.
2. And that this rapidity of origin has followed alike the taking of 5 ss of hydrous acid, of acid equivalent to 9-10 gr of anhydrous acid, and of that which contaned 40 gris. of anhydrous acid.
3. That they are seldom delayed in appearing beyond 3 minutes.
4. That this delay may follow alter 5 gre or $5!$ grs. of anhydrous acid have been swallowed.
5. That no delay has occurred after the largest dose, ( 40 gris. anhydrous) and merely a delay of I minute after the less great doses, as 2 z grs. anhydrous acid. Dr. Lonsdale stated that 3 j . of Scheele's acid would affect an adult in one minute, siij. or iv. in 10 or 15 seconds, and a stronger dose immediately. These statements were founded on experments made by him on animals, but they do wot, as apeats by the ahove apply to the human subject.

Ant MXAIV-REPLY OF DR. MACKELCAN TO DR. HaLL.
To the Editor of the British American Journal.

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\text { Hamilton, July } 31,184 \mathrm{~S} \text {. }
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Sir,-In the July number of your journal, a violent sttack is made on me by Dr. Hall, charging me with endeavouing to injure his professional character, and ridiculing an opinion of mine as "grossly wrong."

I have two grounds of complaint against Dr. Hall in this matter. 1st. That he never sought an explanation from ne of charges which he well knew emanated from members of the profession who were hostile to me, And secondly. That he has reserved his attack until my most authoritative cvidence in the matter is in the grave.

The first charge against me which I shall notice, is that extracted from a letter from some medical friend of Dr. H.'s, dated March, 1S 18 , and referring to a circumstance said to have occurred six months previously, and observing-"You were not four hours from Hamilton, before he (Dr. Mackelcan) found fault with the legs being drawn up." It was some days, I think not less than ten or twelve, after Dr. Hall leit this place, before I had any suspicion that the legs had not become contracted involuntarily. The patient was speaking to me of his prospects of recovery, and I cxpressed my opinion that the contracted state of the limbs was the most unfavorable symptom, as I thought it indicated mischief in the spinal cord, and that it was a feature of the case which 1 was not aware of until his arrival in Hamilton. He then told me that his limbs had not contracted of themselves; that they were straight until placed in a bent position, and supported there by pillows; and that after remaining so for some time, they could not be again extended. On hearing this account, I nitered an expression of surprise, not having any reference to the treatment adopted, but elicited from me by the ray of hope which it threw on the case, as every medical man must know, that a contracted state of the limbs so produced, was of much less moment than that arising from involuntary contraction of the flexor muscles. An intimate friend of the patient, in answer to an enquiry from me, writes:-"I distinctly remember having heard the late Mr. F. say, that an expression of surprise which escaped you when you first learned from him, some time after his arrival in Hamilton, the cause of the contraction of his limbs, led hiin to infer your disapproval of the treatment at Montreal in that matter."

This subject was more than once subsequently referred to, and the patient appearing vexed at the occurrence, 1 told him that the limbs were probably placed in that position for the purpose of relieving him from sullering, fur in fact I could conceive no other reason. Since 1 have received the diary of the case, I perceive that there is reference to a gradually commencing contraction of the flexor muscles of the leg in July, but no reference to the limbs being placed in a fixed position by Dr. H.'s crders. There may be some omissions, however, in the diary, as it is evidently partly written by memory, as Di. M. states, under the head Jmes 8 , I That the patient's brother wa; hotified al his danger
'by telegraph.'" Now, it so happens that the telegraph from Montreal to Hamilton was not in operation until the beginning of August following.

The next point appears to be, that I mentioned the supposed fracture of the sacrum for the purpose of injuring Dr. Hall and the other physicians in Montreal who we consulted in the case. Passing by for the moment the attempts in connexion with this point to throw ridicule on my professional knowledge, I must, and will contend, that any medical man having a patient in charge, and believing that an injury has occurred, or a disease is present, which some previous attendant on the case has not discovered, is at perfectliberty to mention it, without being liable to the charge of intending thereby to injure his professional brother. If such were not the case, our lips would be sealed, and we dare never express an opinion varying from that of a previous medical attendant. On the absurdity of such a position I need not dwell. At this part of the subject, Dr. H. changes me with having made the discovery of the fracture before I wrote to him on the 29 th of October, and not referring to it in my letter, makes the bitter remark, that my end "would not have been gained by this too honest act." The discovery of the fracture was not made until the day before the patient and his brother both wrote to Montreal on the subject, and the date of their letters is Nov. 12, shewing a lapse of fourteen days; and yet Dr. Hall presumes to endeavour to fasten upon me a charge of duplicity and want of candor, although the dates of the communications inight have shewn him its fallacy. The description of the supposed injury, as given in the journal, is very different from the opinion I had expressed. I never suspectod any injury to the ilium, (or haunch bone); and as the sacrum is one bone and not several, Dr. H. must have known that the description contained in the letters from the patient and his brother could not be mine, but was one of those mistakes which non-professional men constantly fall into when attempting to describe in technical language the injuries or diseases of the human frame. Had Dr. H. possessed suffieient candor to admit my own description as contained in my note to the memoranda of the case, he would have seen that I describe it as merely "a transverse fracture of the sacrum;" and he could have ascertained, if he had not already heard it, from his friend, Dr. Dickenson, who expressed it to more than one person in Hamilton, that I evinced no other disposition at the post-mortem examination than a desire to arrive at the trith. While charging me with an attempt to injure his professional character, Dr. H. seems to overlook that he is endeavouring to do the same with mine, by stating that I had given a diagnosis which he characterizes as "grossly wrong;" and, as if to accomplish that object more effectually, forwards the journa! to several gentlemen in Hamilton not members of the profession, and to some of whom I believe he is not personally known. Yet how stands the matter? I expressed my suspicion that there was a transverse fracture of the lower part of the sacrum with slight depression; and the post-mortem examination discloses the fact, that "its two lower sections as well as the os-coccygis were destroyed by caries." Where is the proof, then, of any
error on my part? Have I not rather a right to consider this fact as a presumptive proof that there was a fracture, and that the lower portion of the bone possessing less vitality in consequence, gave way to the ulcerative process and disappeared. And is there such extraordinary sagacity needed, or rather is it so impossible to discover a fracture with displacement five months after the injury, that Dr. H. should endeavour to hold up to scorn one who could presume to express such an opinion? Were it so, there would be an end to all actions for damages in cases of mal-practice.
The remaining charge is, that "the difliculty experieneed in the settlement" of Dr. Hall's claims for professional services, was due to my "unprofessional interference in the matter."

In reply to this charge, and in corroboration of the statements I have made on the other points, I here give the replies of Mr. E. J. F. to onquates put by me to him on the subject.

1st. "I heard my brother frequently state that his legs were straight until they were bolstered up by the medical men in Montreal ; and he used to blame Dr. Hall very much for placing them in the position they were in when the case was put under your hands.

冗d. "I never heard you say anything prejudicial to the treatment pursued by the doctors in Montreal, excepting that you thought opium was administered to him at night in too large doses, and that you could not conceive why his limbs were allowed to be drawn up in the manner in which they were.

3d. "I never heard you say anything against $D_{r}$. Hall's account, nor do I think your opinion was asked about it.

4th.-My brother expressed his dissatisfaction of Dr. Hall to friends in June, and myself in July last, and wished he was entirely in the hands of Dr. McDonnell, in whom he seemed to bave much greater confidence than in Dr. Hall.

It is with relactance I introduce the matter referred to in the last paragraph, but as Dr. H. has accused me of endeavouring to injure him with the patient, I feel it necessary to do so in self-defence, as it shows that his dissatisfaction with Dr. Hill, arose montle before I had scen him, and camot, therefore, with any justice, be attributed to ine.

The only further remark I shall make, is, that it is both ungenerous and unjust of Dr. Hall, to refer, in the manner he does, to the attack made on me by several of the profession in Hamilton, and published in the Hamilton Gazette and other city papers, when on the day of his arrival here, that he might he aware of the position in which I stood towards them, I placed the paper in his hands, and, after perusing it, he contimued his intercourse with me with more cordiality even than before. Dr. H. now refers to that chage, as if it were well founded. Had he thought it so, he should have then ceased all intercourse with me-for were it true, I should deserve to be scouted from all respectable society.

After I had written thus far, 1 received a letter from Dr. Hamilton, of Flamborough, from which I give the following paragraplı:-

II think it was on the 16 h November last, you re-
quested me to see Mr. F. in consultation, and after giving a history of the case, substantially as it has since appeared in the last number of the British American Journal of Medical and Physical Scicnce, you then intimated your suspicion of a iracture of the sacrum; but neither at the time, nor on any subsequent occasion, did I ever understand you as asserting, in positive terms, that a fracture did exist, which had been overlooked and undetected by the medical gentlemen under whose charge Mr. F. had first fallen-on the contrary, you spoke with deference and respect, generally, of the great attention and professional skill of wbich Mr. F. had had the advantage, while in Montreal; if there was an exception to this, it was to the injection which had been thrown into the bladder, (from which the patient himsell said he suffered much), and to the allowing the tonic flexion of the legs to go on without any counteracting effort."
I annex a letter from Dr. M.Cargow, who met Dr. Hamilton and myself in consultation on the case, and who is also an old friend of the late Mr. F.
And now, I think, I have conclusively shewn, that I made no such diagnosis as Dr. Hall has attributed to me, and that where I suspected a fracture, there is no evidence to prove I was in error-further, that where I differed slightly as to the treatment, it was communicated to the medical gentlemen I met in consultation-and, of course, in professional confidence-and would never have been known to any one else, had it not have been elicited now by Dr. Halls attack upon me;-that I had nothing to do with the patient's dissatisfaction with Dr. II., as it existed months before I had seen him, and could not have arisen from the regret I expressed about the position of the limbs, which was nut intended, or used in a manner, to injure Dr. Hall -and lastly, that l did not interfere in the matter of Dr. H.'s charge for professional atten lance.

## John Mackelcan.

> Leitcr from Dr. Mi Cargow to Dr. Mackelcan. York, Grand River, July $27,1848$.

My Dear Sir,-You write me to say, whether I ever heard you endeavoured to detract from Dr. Hall's professional treatment of my late friend, Mr. Wiiliam Fergisson's case. 1 must say, Not at all ; except your disapproval of Dr. H. allowing the lower extremities to become contracted; and I must say; that the patient gave me to understand that the limbs were extended, until flexed, and supported in that position, by Dr. Hall's orders. You also spoke of the dificulty you experienced on the arrival of the patient of emptying the rectum and colon of their contents, which you considered must have arisen from inattention to the state of the bowels.

I think you considered the lower part of the sacrum fractured, as I also did the upper part. The post mortein examination, however, showed I was wrong-the hard ridge produced by the pads having deceived me.
Dr. Dickenson told me several months ago, that Dr. Hall, when he gave up the case to you, mentioned that he suspected a fracture existed in the lower part of the vertebral column.

At the autopsy you did not attempt to make out any case different from that which the inorbid appearances
naturally suggested. On the whole, I am persuaded, that you so fully appreciated Dr. Hall's acknowledged skill, and his high standing in the Profession, that you. could never have spokien on this occasion in any way tending to arraign his medical skill ; though it would appear that foul representations, from some quarter, have given him cause to suspect you of doing so.

I am, very dear Sir,

## Yours respectfully,

William MCCargow.

## Dr. Mackelcan, IIamilton.

[I publish the above communication, received during the month, from Dr. Mackelcan. I do so as an act of justice to Dr. Mackelcan, and I do it therefore with plea. sure: but I, nevertheless, cannot but regret for Dr. Mackelcan's own sake, that he has given me so complete an opportunity of substantiating my charge against him, and this on his own showing.

The charge preferred against Dr. Mackelcan, and this, too, in unmistakeable terms, howsoever much Dr. M. may feel desirous of narrowing it down, was that of stigmatizing the diagnosis of four physicians in this city as faulty and imperfect, and their treatment in the particular case impruper in certain respects. Dr. M. made no secret of his opinions on this matter, although, in my last paper, I confined myself simply to the documentary prool of it, as furnished by letters from the deceased, his brother, and other gentlemen in Hamilton; yet, by whatever means the report was made to circulate, it was notoriously current in Hamilton, Toronto, and Montreal," to the prejudice of all who were conccrued in the case, in this city, but of myself especially." But a procedure such as this is a violation in the highest degree of the ethics of the profession.-Dr. M., being a member of the profession, is amenable to it for breaches of its rules. The "offence was rank," the bane was spread far and wide, and the antidole required equal extension, not ouly on this account, but also to check a practice which is far too prevalent, and than which nothing tends more effectually to throw discredit on the science of medicine. Whether I have been wrong or right in my premises and in my conclusions-let the following observations on Dr. Mackelcan's answer proveAnd,

1st. With reference to the contraction of the lower extremities. Dr. Mackelcan affects to deny the insinuation of any improper practice against the Montreal physicians in this respect. Such is the full intent of his own assertion, if there is any meaning in words. Yet how is it substantiated. In the answer to the second query put to Mr. E. J. F., the latter distinctly says, "I nover heard you say anything prejudicial to the treatment pursued by the doctors in Montreal, excepting that
you thought opium was administered in too large doses,: and that you could not conceive why his limbs were allowed to be drawn up in the manner in which they reere." Dr. Mackelcan has here furrished addhtional proof of the fact; and while he demonstrates his own want of ingenuousness in the matter, he, at the same time, furnishes a lamentable proof of the versatile character of his own judgment. Thus: For ten or twelve days he regarded the flexion of the legs as involuntary; allof a sudden, to suit the whim of a capricious patient, and upon his simple representation, he regaras it as the effect of long continued voluntary contraction, and can conceive " no reason why they were placed in this position." This last idea he must have again almndoned, for I cannot do him the injustice of supposing that he continued to indulge the "ray of hope" which this idea engendered, until the last, and "that he placed the left thigh along the side of the abdomen, and the right knee resting in the axilla, with the heel drawn against the nates," merely "for the purpose of relieving the patient from suffering." No; when I observe that this very condition of the extremilies formed a matter of consideration with Dr. M., at the consultation in Hamilton, when he was made acquainted with my opinion as to its cause, and the futility of every attempt to counteract it, (even the nurse could have informed him on this matter, if he had forgoten my own remarks,) one of two things must have happened when he changed his opinion. 1st. He either founded his judgment upon the whim and captious observation of his patient; or, 2nd. He neglected to justify "the previous practice as far as candour and regard for probity, and truth permitted." f Upon the horns of this dilemma I must, with regret, leave Dr. Mackelcan, permitting him to select whichever he pleases, for upon the one or the other he must, let him straggle as he may, impale himself.
The quibble aboit the telegraph, is utterly unworthy of the subject. Mr. F's brother was notified on the

[^0] 4. See Brit, Amer. Jour, zal. 3, page 178.
occasion specified-by rost, ifit pleases Dr. Mackelcan. The fact of that notification, Dr. Mackelcan cannot dispute, nor does he attcmpt it, allhough he cavils at the means. "Drowning men, it is said, catch at straws," and the quiblie avours strongiy of the trath of the proposition.
2nd. I wow cone to the question of the fracture. The post-morten eqport signed by Des Mackelcan and MCargow, merely indicates with reference to the sacrum, that "the prominent parts of it were denuded," (of periosteum?) a large bed sore occupying its region, and "that its two lower sections, as well as the oscoccygis, were destroyed by carics.": Dre. Dickenson and Craigie, certify "that no mark of fructure, displacement, or injury of any of the bones of the pelvis could be detected, other than caries, affecting the sacrum." If any thing is to be gleaned from these testimonits, we have then, evidence both negative and positive, against the existence of a fracture of the sacrum. Superadded to this, however, we have the fact, that the deceased was examined most carefully by myself and Dr. M•Donnell repeatedy, and by Drs. Nelson and Arnoldi, all stispecting and anxiously looking for fracture, and this innmediately after the accident occurred. Is it likely; can it be possible, that we could have all overlooked such a fracture, when it was recent, and that it should be detected five months afterwards, when union must, of ne. cessity, have taken place, and " a slight depression" its only indication. Such a fact speaks for itself-Dr. Mackelcan might have found a much more simple and unstrained solution of the cause of the caries of the lever portion of the sacrum, in the sloughing from the bedsores, than in the presumption one which he specifies. Dr. Mackelcan will excuse me from following him into his hypothesis, for it is one which comdenme ilself. I wish not to deal with passitilities, or with presump. tive probabilities: : restine upon fact. Thus: Dr Mackelcan may be a practitioner of soumd julgment, who, deliberately reflecting tum all his premisok, draws from them it legitimate and well weighed conclusion That is a possibility. That he is a practitioner of an imaginative turn of mind, and considerable ingenuity, may be not only fairly presumed, but is a fact fully developed by the train of reasoning which he has adopted, and which cannot fail to be appreciated in accordance wilh its deserts by every sensible medical practitioner of ordinary experience.
But I have not yet done with the two points upon which I have dilated. Dr. Mackelcan's letter, the only one received from him, is dated Oct. 29th. Dr. Mackelcan aduits the alteration of his opinion, as to the catise
of the flexion of the legs, to have taken place ten or twelve day's after the patient's arrivai in Hamilton, say then about the 15 th October. Does Dr. Mackelcan anfude to this in his letter? No; perfect silence on this subject is maintained. That teter, moreover, promised to "report to me any interesting features that might arise in Mr. F.'s case." "In the course of another formigit, on the llth Nov., on his oum showing, the detection of the alleged fracture of the sacrum was made. Was this a feature of interest or not? If it was not an interesting feature, it was not of importance. But that it was of importance, and therefore of interest, is proved by the fact of Dr. Mackelcan's ztoutly maintaining the correctness of that opinion to private friends in Hamilton, a fortnight before Mr. F's's decease, and even at the post-mortem examination, and hiss attempica justification of it now. I ask Dr. Mackelcan if, even in accordance with his promise, his duty to the "previous attendant" was faithfully and honourably fulfilled in this. matter.
There are several matters of trifing moment introduced into the reply, which are unworthy of notice, in an especial manner; my desse is to confine myself, as much as possible, to the ethica! bearings of the case.

How far now Dr. Mackelcau's conclusions, so satisfactory to himself, are, even on his own showing, borne out, the readers of this Sournal are perfectly competent to form an opinion, and on their unbiassed jutgment, I am content to rest the case. Dr. Mackelean is wrong in supposing that I desired to injure his professional reputation in this matter. Dr. Mackelcan hazarded an opinion in opposition to that of four phessicians in this city. He did so openly. The altar was one of his own sceking. lssue was joined mon the post-mortcm examination, the ponly test. That examination hats proved that Dr. Macketcan was uroms, and, comidering tho whole cane ant its compomitants, "frossly wrong." If Di. Nackelcan thooser to sute thistios he can hardy expect to gather figs.

Let not Dr. Mackelcan misunderstand me; I take no umbrage at his entertaining an opinion diferent from mine, or from that of others in given eases. To his opinions he has a peifect right; but he has no right to give utterance to them in ways which tend to the prejudice of those brother paccitioners from whom the chooses to differ. This is the ground of offence. The conventionalities of professional intercourse P rescribe certain rules in these cases, which control the physician the moment he enters the profession, and to which it is both his interest and his duly to contorm. Were these obligathons frithfully and homourdy nisciared, actions for
dateras for malpractice, for which Dr. Mackelcan wound appear to have some norid relish, would be recognised as among the things that appertained to a cruder state of society ; they are a biot apon the escutcheon of the science; and, in almost every instance arise out of the very practice which I have endeavoured to reprobate, and which has been done, Dr. Mackelcan may believe me, fur less upon rivate, that upon public grounds.
I have only, in conclusion, to obscrve, that, sensible of the delicacy of my position as Editor of this Journal, the appearance of these remarks is consequent upon the opinions of a number of medical gentlemen in this city, whom I separately consulted as to the propriety of answering Dr. Mackelcan's letter at ail.

## A. Mall.

## ART XXXV.-EXTIRPATION OF A CANCFROUS BREAST UNDER THE IN LLUENCE OF CILLOROPORM.

by J. Chamberlin, Esq., M.D.

Notwithstanding that the use of chloroform as an ancosthetic agent has been sufficiently tested, to prove its wonderful effects in alleviating the sufferings of monformate patients under painful and difficult surgical operations-still, if you deem the following case of suficient importance, you are at liberty to publish it.

Mrs. B., a widow lady, residing at St. Armand East, had, for several months, heen suffering with an enlargement of the left momini, which quickly assumed a sebirmess state. Ihaving phaced horself under my care on tho 6 th instant, 1 decided to extirpate it. . Accordingly, affer prevous preparatory treatment, I procected, on the 17th instan, assisted by Dr. Brigham, of Philipstorg, and Mr. Barmum, of Trelighsburg, to perform this operation, which, heretofore, would have been so painful to the unfortunate pationt-first placing Mrs. 3. muler the influence of chloroform. After cxhihiting if for a fow minates, site fell into the usual state of inscasihility. I then commenced the operation by making a semi-circular incision, exposing the pectoral muscle, at the upper circumference of the gland, and mecting it by a corresponding incision around the inferior circumference. The whole mass was dissected out without the least appearance of suffering on the part of the patient. The entire operation (usually a tedious one), including the securing of the arteries, only occupied the space of five mi. nutes.
By means of this extraotinary substance, 1 was for the first time enabled to perform an unpleasant opertion withme ocrasimntg torture to the unhappy
sufferer, for which physician as well as patient have great reason to be thankful. In the present case, the lady, on waking from the stupor, complained of no pain, and appeared as easy as if roused from a refresh. ing sleep, inquiring, with surprise, if her breast had been actually remored. She has continued in a perfectly quict state, and free from the usual irritation and disturbance of the system that almost invariably follows similar surgical operations. 1 may hereafter give the result of this casc.

Frelighsburgh, July 20, 1848.

Art. XXXVI.-ANGULAR DEFORMITY OF THE LEG AFTER FRACTURE.
By Hamnetr Hile, M. R. C. S. L., Bytown.
The following account of an operation recently performed for the purpose of remedying a case of very great angular deformity of the leg after fracture, will be doubly interesting, from the fact, that the party is the individual who was the plaintiff in the case, "Kelly versus Van Corlandt," which was so ably reported in a late number of your journal:-

I was called to attend James Kelly in June, 1847, having been informed he had a tree thrown across his leg some nine weeks previously, which had been broken about its middle; that the leg had been set by the surgeon who attended him, but that it was not yet knitted, nor was it at all straight. On visiting him, I found things pretty much as had been represented. There evidently had been a fracture of the tibia and fibula about the middle third of the leg; there was considerable attempt at union, but owing to the leg having latterly had too much liberty from one very short splint that I found applied thereto on the inner side of the tibia, very great angular deformity existed ; and from its having laid in this position for some time, the deformity was to such an extent, that a line carried from the intermal condyle of the femur, and striking the side of the calf, would leave an interval of about forr inches and a hall between the continuation of such line and the internal malleolus, which, in ordinary cases, it would strike; it appeared to have been originally a simple fracture, but at this period the angle forned by the ends of the bones nearly protruded through the integuments, or, at all events, the pressure of a straight solid splint was causing absorption of the soft parts, and was producing the same results. Notwithstanding the unfavourable position of the leg, partial union had taken place, and I endeavoured, but unsuccessfuly, to remedy the deformity. by adjusting the limb and applying two long lateral splints that 1 considered more eligible for the purpose; but, although I applied steady pressure by tightening the bandages, it was impossible to straighten the deformity more than one inch, notwithstanding so much pressure was used as effectually to prevent sleep for two nights; and at this time, such was the tenacity of the integument and state of the man's health, from long confineinent and bad supply of food, that I did not think it
justifiable to attempt a greater amount of force in breaking it asunder.

After six weeks the union was complete, and the man began to hobble about on crutches, but his progressive powers were limited to this kind of locomotion up to a few weeks back. I saw no more of him until about three months ago, when he had commenced the action above alluded to, and he talked of going to Montreal to see if any surgeon there would undertake to straighten his leg by breaking it again. I was of opinion that it would be useless: that a piece of bone of the shape of the letter $V$ must be remored from it, and that after the action was over, I would undertake the operation, to which he most checrfully assented. Accordingly, on the 17th May, I performed the following operation:-The patient having been extended on a long bos, some chloroform was applied, by means of a hollow sporige, in the usual way_it speedily took effect, and in about three minutes insensibility was perfect. Having previously applied a tourniguet over the femoral artery, and the leg being firmly held by wo assistants, I commenced the operation by making an incision with a scalpel, be. ginning at a distance of about haif an inch behind the inner argle of the tibia, and about one inch above the spot where I destined to take out a piece of that bone, and continuing it downwards two inches and a half or so, in the same direction. Another incision was then carried from over the anterior angle of the tibia, to join the preceding one in its middle, thus forming the letter T; and the two flaps were dissected back, leaving a good sized triangular space of the fascia, \&c., exposed for further operations. I next divided the fascia at the anterior angle of the tibia, and carefully separated the muscles from the bone down to the interosscous ligament, and cllected the like purpose on the internal angle posteriorly to the same tissue; then a bluntish scalpel was pushed through the interosseons ligament, and, on its withdrawal, the hande of a silverspoon was inserted there to protect the vesels from injury from the saw which was now called into execution. I had entertained some fears of wounding the posterior tibial artery by sawing from the tibia towards the fibula, or fion without inwards, so had prepared a carpenter's keythote saw, which was introduced through the opening in the introsscous ligament, and then sawad from within the bones outward. In a short time the tibia was completely divided, and this part of the operation was repeated, carrying the saw in a sloping direction outwards, whereby a portion of the entie substance of the tibia was removed of a $V$ shape, the apex heving been in fellowship with the fibula, and the broader extremity to the opposite side of course. The excision of this piece of bone was not yet sufficient to allow the leg to be straightened, as it recoiled immediately; force was discontinued, owing to the firmness and clasticity of the fibula, which I had anticipated. The next step was theretore to divide this latter bone, which, however, was most deeply imbedded in musele, from the foot being so much turned out, and, consequently, required so wide an incision to reach it, that very nearly were the two incisions on the outer and inner side of the limb continuous; I succeeded at length in sawing it half throngh, and
then, with a gentle jerk, snapped it off, and immediately had the satisfaction of seeing the leg most perfectly straightened.

Thus far in the operation 22 minutes had been expended, during which time the chloroform was applied at very short intervals, and was continued, in all 43 minutes, the remainder of which was occupied in applying sutures, dressing the wounds, and litting it up securcly on Amesbury's Fracture Apparatus with lateral splints. I was feartul of discontinuing the use of the chloroform before all these operations were completed, lest he might become restive as the influence of the chloroform vanished, and send his nearly divided leg to the other end of the room ; however, there was no excitement of this kind. He recovered from its effects just as a man awaking from quiet sleep, and said he had experienced no pain whatever. About a quart of blood was lost by the operation as the tourniquet was not tightened; no vessel of any size was wounded, not a ligature was applied; and in the after treatment, which consisted only in keeping him on the inclined plane for about eight weeks, there was not a bad symptom, with the exception of an attack of dysentery at the end of five weeks, which lasted him eight or ten days, during which time, of course, all further improvement was arrested in the process of union already begun; but now, at the end of the nintls weck, the union of the bones is so far advanced, and the wounds so nearly heated, that he is commencing to hop about on crutches, and there is little doubt that after a time he will be able to walk almost as well as ever, as there is not much shortening, perhaps about three-eighths of an inch, and the limb is as straight as a line. The measurement of that piece of the tibia which is removed, would he accurately described by imagining an isosceles triangle, the base of which would be three quarters of an inch, and the apex the ordinary transverse diameter of the bone above its middle. I feel myself much indebied to my medical confrères for their assistance on this occasion, Dr. Horne, Stall Surgeon ; Dr. A. Morson, and Dr. Newton of Quebec.
In reference to chloroform, within the hast ten tars I have again had oceasion to avail myself of its fruls wonderful eflects in a case of amputation of the leg, in conseguence of severe compond fracturc. Its cflects were equally satisfactory.

Bytuwn, July 17, 184 S .
Art. XXXVII.-No. 1.-The Medical Tractitioners' and Students' Library. The Principles and Practice of Midvoifery: by Jons Tucker, M. D.,-Professor of the Principles and Practice of Medicine,-with mumerous illustrations. Philadelphia, Lindsay \& Blakiston, IS4S. Small Sro. ; pp. 405.
It is a pleasure to us to witness the effort made by the publishers of the "Medical Practitioners' and Stu-

[^1]dents' Library" to advance the cause of medical science, by placing within the reach of practitioners and students, works upon the various important branches of their profession.

Two of their publications have reached us; and the first of the series is the work before us, treating upon the important subject of Midwifery.

The several physiological quesiins connected with this sulject are concisely arranged, and detail the latest information on the severai points. We more particularly allude to the subjects of menstruation, generation, utero-gestation, and the various questions comected with the ovum.

While expressiug an opinion on the merits of the work, we desire to act impartially; and it is not through any feelings of hypercriticism, when we state that, in many places, the work exhibits evidence of hasty composition, hoth with reference to its style and matter. Thus the author, when describing the effects produced on the uterus by pregnancy, observes, that "the uterus will rise more rapidly in narrow pelves than when the excavation is contracted," (page 119). Among the modes of detecting pregmancy, the author alludes to ballottement in the following terms:-" This is a passive movement of the foetus, obtained by placing the hand on the hypogastrium, while the finger of the other, introduced into the vagina, must force up suddenly the presenting portion of the foetus which will be found resting on that portion of the uterus comprised between its cervix and the symphysis pubis. This movement is dependent on physical canses, so that when the impulse is suddenly and quickly giren to the presenting portion of the foetus by the fuger in the vagina, the movement is felt by the hand placed on the abdomen,"-(page 120). The anthor, here, reverses the mote in which this operation is nsually performed, and converts a test of facility ino one of comparative difliculty. In the atrthor's remarks on the development of the uterus during pregnancy, on page 129, we quote the following inaccuracies, "But not only does the bulk of the organ increase, bat its size, as we shall presently see, changes recatly."-We presume the author means form or parictal thickening. Again, "the vaginal porfion of the cervix is solter to the sonch than in the unimpreguated state, when it is hard and cartilarenous." mstances of these inaccuracies and inelegancies of expression might be muliplied. We adduce then to prove that the work is not fauldess. The practical department is not characterised by the same faults. Its descriptions are clear and concise, and the rules of practice and treatment judicious.
No. 2.- Elements of Gencral Pathology: by Anfred Srule, M. D., Professor of Pathology and the Practice of Medicine, in the Philcdelphia Medical Association. Philadelihic, Lindsey \& Blakiston, 1848. Small Svo.; p. 483.

This valuable work is the sccond of the series, and we can confidently recommend it to our readers as one of the most complete and accurate works on the suliject. The introductory chapter on "medical truth," is higlly creditable to its"nuthor,
and well calculated to encourgen a more strict and logical methol of reasoning on medical sulyects. Wo are glad to find that dinerican physiriatis are now occupied in bringing out original treatises, and not. as heretofore, expending then talunts and time in remblishing enitions of "tatish works, of which thei awn notes and obserwatione, at matrequenty, constitute the only valumbe portions. An we have mach phasure in acknowleding that the watk of Br. Stithe is, ha con opinion, suporior to any ofter on the same saifect in the Halish haguge with which we an bumithe.

The two publications whinh we lave notieed, do great credit to the puhbishers. Then thocraphical execution is exceediagly nem, and the puper exchlent.

Art. XXXVII.-Lectures on Yelloit Fier's its: Cutses, Pathology, and Treciment ; by J. Maswsus, M.D., United States Juvy, Mhiladelphis, 18.4S, up. 69.
After secing and treating a great many cases of yellow fever, Dr. Hastings has publishen an enimated and excellent account of this important malady. His descriptions, like all those deawn from nature, have that freshness which is sometimes wanting in the works of systematic authors, who mey not have had opportunities of secing the disense. He considers that the fever arises only from malaria-from alluvial marshy groimd alternately being overfowed and being left uncovered by water-that it is not infectious; that it is a fever allied to intermittent and remittem fevers; that one is liable to seomb third, and more attacks of it ; that black romit is, blowd that has onzed from the mucous mombrane of the stomach, and been ated on hy the muriatic acid in the stomach.

Its Symptoms are rinor, tevor, injected eyes, pain in the heal, hack, and legs, a tunidr epigastrinim, vomiting, and thack voniting.

Its. Morbid Antromy is thickening ame hatenings of the membranes of the brain and spinal matrow, firmness and discoloration of the liver, amb thiokening abd sphacelus of the mucous membame of the stomach:

Its Troatment is heoling proreation, Myalism, ams blisters over the stomateh and liver ; these io be dreased with mecomial mintment, remsote and nurphia ite cer. tain cases for the romitimg. The abowe is the lient part of the treatment, but the secend is as important, and requires more skill and diserimination; and this is to leave off the redicing pian, and to adort the sub;porting and stimulating methot, and to he careful that too active treatment-and over-medication, do not overwhelm the vis medicatrix naturee.

We have not observed any allusion to the saline treatment, nor to the use of quinine, although its assumed malarial origin points to the lafter medicine.

Dr. H. noticos the opinions of Fergusson, Lim, Wilson, and others, We consider his criticism on Dr. Wilson to be crroncous; for certaing, if recaying wood, in a marsh, be allowed to be a canse of fuver, it must be the same in a ship, A large ship in a tropical climate, with many of its timbers, \&c., in: a state of decay, and those at the bottom of the hold always severed with surying parity of bige water, beomes
pertecty qualitiod to canse fever among those on hoarti.

We heartily reconmend Dr. Hastings brief bat alle Essay to the untice of all naval, military, or civil sur. geons, whose lines may be cast within the limits of the yellow bum.

Ant. $\mathrm{X} \times \times \mathrm{N} .-\mathrm{A}$ Dispensatory and Therapeutical Remembruncer, comprising the entire Lists of Matcria Medica, preparations and compounds, with a fill cind distinct version of cevery pructical jormula, as authorised by the Londun, Eainhurgh and Duthin Collece of Physicians, in the lelcit. Edilions of their scveral Pharmacopcias, \&c. : by Jonk Maven, ili. D., i. R. ©. S., Edinburgh. Revised with the addition of the Fornula of the Unitel States Pharmacopoic, we. : hy R. Egiesfeld Griffith, M.D., Philadelphiat Rea \& Blaychard, 1S48. Small Svo; pages 324.

The onject which the author had in the work before Les, may be glened from the preface to it, vie, to make cian abridged practical formulary of the thre British Pharmacopains ; and his in addition to a full amount of collective information as to the uses, de., te: the medicines, and other important points relatint to remedial means and appiarces. Another feature of originality, which, it is expected, will prove highly serviceable, is the introduction, wherever deemod requisite, of extemporancous formule into the work, intended to assist the pactitioner"s menory, hy suggestions of forms and combinations most suitable for the medieinal sulstances to which they are amexed." The aldition of the officinal articles and processes of the United States Pharmacoproin, by the American editor, completes the publication. The flan is based um the therapeutical action of the anima artieles of the Materia Mrdica, thus facilinting a reference to Bedienes proluctive of similar actiom, whike under the dillerent heads they are all ar. rauge i alphathetically. Di. Geilfith has, in our opinion, eflected a decided improvencoit upon the original, and to pabitioners in thes commery, ase well to those in the United States, it peowt: raims to especinl considention, as heing an "arelhent" cpifnome of the four Andu. Sisomblymacopias.
 to Auconthation : ly Henir I. Buwnrua, M. D.; one of the Plysician: of the Massachusetts Ceneral Nospital. Sucond edition. New Sork, Simucl S. \& William Wood, 1848. Small syo ; ; pages, 303.

As far as it groos, this treatise is accurate, and will assist the' student ; but we are of ophion, that if aus. cuttation be of value in dinguesis, it is worth the trouble ol hecoming fully intimate and familiar with its principles and difficulties, and on this aecount we do not think very highly of the above treatise, as we do not consider it capable of communicatiag any but the most superficial kuowledge on the sulject. It camot bear comparison with the treatises of Walshe, Cowen, Racihorski, Barth and Rozer. André, or Hughes; and as these works are deservdy popular, and, moreover, cheap, we do not think there was much necessity for

the work has reached ar second oition, it would appear to have thecone a fivorite with the chass of realers for whem it was intended.

Art. XLI, - On the Bloot oud trine: by Joh: Wrmbay Grifmith, M. D., F. L. s., \&e.; G. Owm Remse, M. D., F.R.S. \& F.G.S., ©e. : and Alpren Manwwick, M.D., \&c., in one volume. Philadefhia, fea \& Blanohari, 1848. Small Svo.

In the above manal, the rater is fanishod with a reprint of three of the best works in the English lanmuage, on the subjects of which they treat, viz.: "Grifith on the Uime and Bloot," "Reese on Btood and Urine in Mealh and Disease," and "Markwick on the Urine in Health and Discase." These several works have been highly esteemed, and in the manual before us, the American publishers have givena reprint of the latest editions of each.
To those practitioners who areanxious to how what chemistry and the microscope have done for medical science, or who are desirous to acguire a haowledge of these two powerful aids to dagnosis and treatment, we strongly recommend this manual. Like most American reprints, it contains aumerons typographical errors; but we must ovenlook this, when we recollect that wa have threc treatises neaty bound together, and well printed on good paper, for less than the English copy of any one of them would cost.

## PRACTIGE OF MEDICINE AND PATHOLOEY,

On a Casc of Death caused by the Iniwlation of Chlorofnron; by M. Gorre, Surgeon-in-Chief to the Hospital of Boulognc; Corrcsponding Member of the Acatemy of Medicine, Peris: before the Academy of hidedicine, Jity 4, 1818.-Mitle. Siock, a person 30 yenrs of age, well formed, enjoved batitually gond heallh. I ought to state, however, that she had consulted me sone monith previously for prapitation. which appeared to me to depend on a chorotic state, and on which preparations of ion had the happiest effect. Her health since then had experienced no change.

Some weeks since she was thown mit of a caniage, and besides some contusions, the result of the fall, she was woumded in the thigh by a splinter of woul, which made its way beneath the skin, withouf larang any frace besides a very suall laceration, and the phesence of which was not thei recognzed. Ber medical attendant appled sime leches over this puint. Flactuation beine soon manifest, he proposed an incision, int the patient sefused. Some days afterwards pus escaped in sone quantity through a spontaneous opening, and as the suppuration did not cease, 1 was called to the case. I easily made her understand that a free incision was necessary for her complete recovery. She now consented, but on condition that I should put her unter the infuence of chloroform. Ihal ho reason to refuse her request. I went next day with stime chloroform, the good quality of which camot be douhted, as it was supplied from the Chemical Laboratory of Quesneville.
I found my young patient in her usual good spirits, frec from all fear; her usual medical attendant was present, and a midwife, to render assistance. Everything being ready for the operation, in itself very insignificant, I placed over the nostrils of the patient a handkerchief moistened with from fifteen to twenty drops at the most of chloroform.
Scarcely had she taken several inspirations, when she put ber hand on the handkerchief to withdray it, and cred
with a plaintive voice, "I choke!" Immediately the face became pale; the conntenance changed; the treathing emharrassed; and she foamed at the moath. At the same instant (and that certainly icss then a minute after the heginning of the inhalation) the handkerchief moistened with chloroform was withdrawn. But, persuaded that the bad symptoms were oniy evanescent, and that it would suffice for the efiect to cease te have suppressed the cause, I hastened to pass a directorinto the small fistulous wound in the thigh, and to iay open the abscess in its whole extent-that is to say, brtween two and three inches-and I withdrew from the botom of the wound a small, thin, and pointed splinter of wool. During the infinitely short tina occupied by this little uperation, iny colleagye sought by every means to remedy the threatening ammihiation of life. I joined him, and both of us put into force, with activity, the measures most likely to prevent a fatal issue.

Fictions upion the temples and the precordial region, throwing coll water on the face, tickling the fauces with a feather, blowing air into the air passages, ammonia to the nostrils, everything that it was possible to do in such a case was tried by my colleague and myself, during more than two hours. We were willing to believe that there was only a sucpension, not an abolition of the sensorial functions. It seemed impossible that the inlalation of so minute a quantity of the anesthetic agent curing so short a time, (not, indeed, calculated by the watch, but certainly not more than a minute) had been suficient to extinguish life. Our efforts were vain!
This death, though we clung to the belief that it was but apparent, was real; and it had heen so pronpt, that already it was without doubt complete at the moment when I made the incision. 1 can only give a just idea of the lightainglike rapidity with which it was producel, by saying that it recalled to me mosi accurately, death from the accidenal introtuction of air into the veins. The details of the very minute examination give value to this analogy, the idea of which struck me when observing the symptomatic expersion of the last moments of life.

Autopsy, 24 hours ufter denth.-Exterior aspect. The right side of the face presents several large eschars, the skin heing as it were parcliment-like; these eschars are due to the ammoniacal frictions male to recal life. Complete rigidity of the limbs; comea dall; ablomen distended with sas; a blood-stained bandage covers a womd at the internal superier part of the right thigh.

Hath.--Scarcely any hool flows from the cutancous incision. The superior longitunal simus is empty; the veins on the convex surface of the hrain are not engorged, hat they present thas remarkalle peculianty, that the column of hood is boken evey here and thete by bubhes of gas. These wiss when punctured, collapse, owing to the cseape of the gas. There is also air in the vrins at the base of the skn!l. Numerous ballie of air escaped with the blond from the ophthalmic reins, the cavernous sinuses, and the inferior cerebal veins. The literal venticles contain a moderate quantity of seruin. The substance of the brain is fum; no drops of blood escape on cutting into it.

The air escapes, bubling up in the milst of a remarkahly black and yery fluil blood, from the internal saphena and the left crural veins. The crmal atery is entirely empty.

The right thigh presents, on the inner side of it, in the apper part and somewhat backwards, a wound male in opening an abscess. This wound, made through the skin and cellular tissue, is stained with black blood; the vena saphena is at a distance from the incision, and could not have been touched by the bistony: The universal presence of ar in the circulatory system called for a careful examination of the hood-vessels near the wound : dissected with the greatest care, they are found to be perfectly entire.

Chest.-. The !mage, espcially the left, are yolumions,
and visibly engorged in the lower lohes. When cut into a large quantity of very black flaid blood escapes. Remarkahle crepitation; pulmonary vesicles dilated liy the air blown in during the last moments of life, with a view to re-animate the patient, supposed to be'in a state of asphyxia. Neither interlobular nor subpleural emplysema; the tracheal mucous membrane is of a bight red ; complete absence of froth in the bronchi; some amount of serum in the pleura and pericardium; heart excessively flaccid, of the usual size; right and left cavities absolutely empty. Not the smallest clot either in the auricle or between the fleshy columns of the ventricles; frothy blood in the orifice of the ascending cava. The pulmonary vcins, opened near the auricle, allow a litte blood to escape, mixed with air. The internal inembrane of the heart, especially of the right cavities, is red. Its tissue is pale, and tears easily.

Abdomen.-Liver very voluminons, its, colour like the lees of wine ; on cutting into it, air bubbles out of the vessels along with much black and fluid blood; the intestines are distended by feetid gas. The spleen is sffened, and is gorged with blood; on pressure, several bubfose of air escape from its substance.

In closing the account of this autopsy, I have particularly to notice, that the blood was blacter than it is in simple asphysia. It was literally as black as ink. The above post-morten appearances lead me to the following conclusions, which I submit to the consideration of the academy:

Mile. Stock did not, properly so to speat, die fiom asphysia. According to all probability, her death was due to syncope, caused by the sudden suspension of the cerebral functions under the influence of chlonform.

The presence of air in the venous system cannot be explained by the introduction of air into a vein improdently opened when the incision was mate in the thigh. The incision being altogether sulerficial and cutancons, could not reach a vein of large size.

Nor yet was it the artificial respiration winch caused the air to find its way into the circulation through the rupture of the palmonary cells; for at the monent when the artificial respiration was resorted to, life was extinguished, if it had not been already abolished, am the action of the left side of the heart had ceased.

Thus, by shutting out other causes, one must admit, as the most probable view, the spontaneons formation of air in the veins. Was this fluid produced during life, or after death?
Morgagni relates cases of sudden death, in which the autopsy revealed a large accumulation of air in the heart and great vessels, without any possible extermal origin. In these cases decomposition had net commenced, and no organic change accounted for the death. M. Ollivier (d'Augers) has related analogous examples, which fed him to atmit the lossibility of the disengagement of a gaseous fluid during life, which kills after the same manner ant with the same rapidity as if air had penetrated accidentally through the opening of a venous trunk contiguous to the heart.

I am consequently induced to think that the above case must be added to those singular cases of pneumatosis related by Mery, Littre, Morgagni, and, among ourselves, M. Ollivier (d'Angers). In this case, it appears to me, that the uapidity of the death is due to a complication of causesnamely, first, to the special deleterions influence of the chloroform upon the brain, which led, as the immediate consequence, to the abolition of the sensorial functions; and secondly, to the spontancous de relopment of gaseous fluid in the circulatory system, the probable result of the hitherto unexplained action of the ethers upon the blood, under the circurstances related.

Whatever may be the value of this explanation, one thing is certain, resulting from the case just related, and from that reported in the Lancet, that the chloroform, in cettain stinds
of constitution, which it is absolutely impossible for the man of science to recoynise, may cause death with alightningtike rapidity. Even in experienced hands, there is no certain safeguard against the unfortunate consequences of this agent, which only too well justify the words applied by M. Flourens to chloroform, "a marvellous and terrible agent." Finally, the dangers indicated by M. Bouisson of Montpellier, and Sedillot of Strasburs, are but too real, and in face of the dangers now so thoroughly realised, it would be the highest impradence still to employ chlorofom, as has been done hitherto, for insignificaut operations-such as the drawing of teeth, opening an abscess, and the application of a moxa. In future, chioroform should only be exhibited for great operations. In fact, important advantages only can compensate for the risk incurred by the patient-a risk necessarily incurred even in acting with extreme circumspiction.
M. Velpeat. - There are tivo things to be considered in relation to the case just related-the case itself, and the consequences to be derived from it. The case is singular, isolated, and so much the more extraordinary, that instead of 15 or' 20 drops of chloroform being placed over the nostrils of patients previously to operation, ihere is usually as much as from : 2 to 3 drachms. And yet no accident of importance occurs. Remark, that stich instances may now be related by thousands. No uperation is performed in the hospitals without the employment of chtoroform, and yet the surgeon would reject this agent; altiough, indeed he could not, for the patients themselves would insist upon its use. The chloroform is, I say, free from clanger, except perhaps where its use is too mach prolonged, and even in such cases the ineans used to recall the patients to themselves must go for something.

1 am not, then, convine that the death of this case can be altogether attributed to the chloroform. M. (Gorté ascribes it to symeple. He queaks also of the introduction of air into the veins: I own that this appears to me very improbable; on one account, becatse in vein of impritance was wounded, and on another, becanse the operation was perferincd on the thigh-very far, consequent!, from the centre of the circulation. On the inspection there was found, he save, a great guantity of air in the vessels. That is not astonishing the inspection was not made matil twenty-four hours after death, and in the month of May, in warm weather. Perhaps there has been a coincidence, mifortunate withont doubt; but yet all surgeons know that there is no operation, however trifing, but it may occasionally canse death. I prefer this explanation to that of M. Corre ; otherwise, we must absolutely renouice the use of chioroform in all surgical operations, great or small.
M. Mnezat. - I an mot so cettan as M. Velpean of the profect safety of chinoform. Here is a case to phace beside that related by M. Goree. I learn from M. Robert, surgeon of the Ilospital Beanjon, that after the cmploymen! of chloroform, he was about to take the knife to cut of tine thigh, when his patient suddenly died. I have to add that the case shall be communicated to the academy in all its details.
M. Howors.- Sudden deaths at the momert of operation have been spoken of: here is an instance, of which I was witness. About a year since l saw a patient who suffered from very severe pain in the bladder. This man was excessively excitable, and of a remarkable susceptibility. M. Civiale was called in; he sounded him, and discovered a calculas; but he showed snch excessive excitement that M. Civiale refused to operate. Sometime afterwards the pain returned; M. Civiale was called on to operate ; be introduced the catheter, and the patient died suddenly:
M. Roux.-1 wonld first reply to M. Morean, that before we can reason on the case he has related-before accusing chlloroform, we must wait for the communication of $M_{\text {: }}$

Robert. At present I address myself to the case of M. Gorré, although M. Velpeau has in great part said what 1 meant to say; for it appeats that we have both received the same impressions from this recital. And first, 1 declare that if it can be proved that chloroform can, eilleer at the time or aferwards, directly or indirectly, compromise the life of the patient, it would be necessary to renounce its use withont hesitation, not only in small, but also, and still more, in great operations; for it cannot be permited to the surgeon to add to the danger of an operation the danger of additional steps. But lown that I patake with M. Velpreau the doubts expressed by him as to the cause of death assigned by M. Gorré ; and I tepeat, that so many operations have been pertormed under the influence of chlonform, and these operations have been so happy in their results, that it would be imprudent to condemn a means so preciens for a misfortune which it possibly did not occasion. I question whether the manner in which M. Gorre administets the chloroform is free from otjection : he impregnates with it a handkerchief or a sponge, which he applies under the nose. In this manner the patient inspires the choroform vapour without air, while, when inhalers are employed, the vapur of chloroform is always diluted with air. On the other hand, I ask if the external air has not penetrated into the veins, not indeed by the veins of the thigh-they are to far from the heart-but by the pulmonary veins, which might be ruptured in the efforts of respiration. That the air penetrates thus was a conjecture of Morgnani's adopted by Bichat. Once, a very long time since, I opened a body with Bichat; on opening the cranium we were struck with the quantity of air spread through the sinuses and veins. We inquired into the employment of this man, and we learned that he was a shoemaker, and that he died suddenly while making a strong effort. Bichat supposed that during this effort the air was introduced into the venous system. Why might it not be thus with the patient of M. Gorre ?
M. Baillarger.-1 do not pretend to give an explanation of the unfortunate case communicated to the academy by M. Gorré, but in relation to the dangers of chloroform, I think it right to remind you of its influence on epileptics. We know, from the trials made at the Bicêtre by M. Moreau, that the inhalation of chloroform not only excites epileptic fits, but that the fits have then an extreme degree of gravity. A military surgeon has taken advantage of this special action to recognise the reality of epilepsy among the conscripts who have asserted themselves to be subject to that disease. It is, then, prudent to forbid the use of chloroform in persons afflicted with convulsive afiections, and this is a precaution that surgeons ought not to neglect to take. In this case the patient had no convulsions, but foam was observed on the mouth. Has the chloroform excited here one of those epileptic paroxysms that put on the form of syncope, and in which there are no convulsions? On this point we can only throw out conjectures, but these conjectures would merit serious consideration, if the lady, aged thirty years, who has died so suddenly, had previously had any convulsive ailnents-a point which has not been mentioned in M. Gorre's communication to the academy.
M. Bussy asked if the quality of the chtoroform had nothing to do with the death of the case communicated by m. Gorre. This is worth verifying; and it would be well to write to M. Gorré to send a small quantity, that it may te tried on animals.
M. Velpeau answered that the chloroform nsen by M. Gorré came from the laboratory of M. Quesneville, and everything would lead us to believe that it was very well prepared.
$\dot{M}$. Grbert-I wish to make two remarks, one on the probatle cause of death in this case, and another on the practical and usnal employment of chloroform.

The explanation of the death by syncope, adopted bs the
author, appears to me :manmissatile. All the details of the case seem to establish that the sudden death has licen caused by the introduction of air into the veins, due probably to a rupture of the pulmonary vascular tissue, as in the case cited by M. Ronx. Syncope, they say, has only negative characters; I believe, from some facts that I have observed carefully, that there are cases in which synonpe may be characterised in the dead boly by the absence of blood in the dight cavities of the herrt and in the great venous trunks; this is contrary to what one generally sees in the dead body, and it is exnlamed, withont doubt, by the sudden suspension of the left side of the heat.

For the usual employment of choroform, I declare that, white [ defer to the high surgical experience of M. Roux, I persist in butieving that the best mode of administering it is also the simplest and easiest,-that which every one has at hand, and which good common sense points ont,-that is to say, the wse uf a hamkerchief impregnated with chloroform, and which it is not necessary, as M. Koux conceives, to apply exactly orer the nostrils in such a manner as to hinder the misture of air with the vapours of chloroform.

The iniaters emplojed either for the administration of ether or chloroform are more or less inconvenient and annoying, and it is to them, whether from the difficulty of breathing through the inhalers, or the moral effect produced by then on some individuals, that we must attribute various disagreeable tesalts in different individuals, and the difficulty of exciting in them the ordinary effects of the anasthetic agents.
M. Piony.-Three things have been spoken of-.

Ist. The introduction of air into the veins. It results from published experiments made by me long since on rabbits, that the inlation of the lungs of rabbits with air sometimes causes sudden death, - not because of pulmonary emphysema, but from the penetration of air into the veins. We find, in fact, the elastic fluid in mumerous bubbles in the heart and great vessels; it is then probable, but only probable, that in the adult a strong inspiration, followed by a forced and difficult expiration, may result in the penctration of air into the veins, and death.
21. I have not studied the action of chloroform on the bysterical and epileplic, but this I can say, that the inhalation of ether, tried by myself when it was first introduced into practice in France with a view to meet and prevent the paroxysms of hysteria, gave rise to tertible effects, paticularly in one female ; and in spite of some partial success, I have not dared to have recourse to it ancw.
31. As to syncope: it would at first be wall to know what is meant by that word. Many organopathic states are so named: there are some in which there is no blood in the heart, as in death from hemorrhage : there are cases in which the blood is abundant in all the cavities of the heart, while it is deficent in the brain;-in tine, it inay be that in certain cases there is no blood in the right, while there is blood in the left cavities; but this is an observation which I have not verified by experiments on arimals, which are here of great importance.
M. Amussat remarked that he has demonstrated that sutphuric ether and chloroform act both of them in the same mammer: they cause the death of animals by asphyxia. With regard to the modes of administration, the most simple are most dangerous. In evary case he linds it necessary to act with great caution. When the operation is long, he suspends from time to time the inhalation of chloroform; and with this single precaution he has never seen a fatal case; but he is always alarmed when the patient does not prompitly recover conscionsness. As to the entrance of air into the veins through a wound of the thigh, there is no example of such an occurrence.
DI. Castel corrertell an inaccuracy in language. Deah
is not caused by syncon, but by the cause which produces the syncope.
M. Rayer-Collard, President, asked leave to make a remark on the case the subject of the discussion. They have spoken, said he, of the patient from whom Depuytren removed a large tumor seated between the shoulders, and who died suddenly under the kiafe. This circumstances has never been related as it occurred. i know, for I was present when it occurred. They say that Dupuytien heard a noise, a hissing, caused by the penetration of air into the vessels; and they hare put into his mouth words which he never uttered. Dupuytren did not know to what to attribute the sudden death: he spoke at first of the exhaustion of sensibility; it was not until the next day, after having observed the heart and great vessels, that he suspected the introduction of air.
M. Duval.- They have spoken, he said, of syncope: I have been several times witness of this morbid state; lhave seen swoons that have lasted several minutes. Among all the means for bringing the patient out of this state there is one but little known, and which I have several times found efficacious, frictions with the essence of arimt mime the gums (!)-LJUnion Méd.

> (Tobe Continued.)

Paralysis of the Tongue from Pcssion. -The following case is related in the MLedicinische Zeitung. A man, aged 59, of delicate constitution, and choleric temperament, while engaged in a dispute, suddenly lost the power of his speech, his intellectual faculties, however, iemaining. He was unable from this time to move his tongue frcely, or to utter and articulate sound. Respiration, the heart's action, the digestive and urinary functions, were normal. No symptoms of congestion of the brain were to be observed. His physician had recourse to clectricity, which was continued daily for from five to ten minutes. In the course of five day's the faculty of specelh was restored.--Journel of Psychological Medicine, No. ..

Chloroform in Chorea.-Mr. Harris, of Botesdate, relates the following instance of the bencicial effects of chluroform in this disease:-

The patient was a female in her seventeenth year. The immediate causu which gave rise to her comphaint was fright, the system being, doubtless, predisposed to its intluence, owing to a chlorotic state of constitution. The ordinary remedies-purgatives, either simply or in combination with one or other of the mineral tonies-constituted the general freatment for the first ten days of his attendance. The symptoms gave, howe ver, no perceptible evidence of any improvement ; the involuntary muscular movements, of the extremities especially, as well as those of the face, (causing the countenance to be at times bideousiy distoted, continued rather to increase than otherwise, which, together with a constant state of watchfulness by night and day, (in spite of opiates,) contributed not a little to her exhaustion and suffering.
The chloroform was used every day for a week, preserving its influence with her on each occasion for about half an hour, when the mascular movements became almost magically arrested, and a calm sleej twas induced. Upon recovering from its influence, the muscles agam resumed their state of excitement, although with decided and perceptible mitigation as to the power and severity of action. The nights, which before were watehfal, became now, and without the aid of opiates, acvoted to sleep and quietude. Believing thai these beneficial results might be hairly attributed, if not wholly, at least in part, to the chtoroform, Mr. Harris contmod ifs employment for another week, twice daily, extending is inthense to a horr each time, and on a
few occasions to an hour and a half. It ought to be stated that the medicines were, throughout, regularly persisted in, and doubtless might have tended considerably to share in effecting the anelioration, which by this time the symptoms of the discase hat undergone. The chloroform liad been usend rather more than a fortnight; the medicines were con tinued a few days longer, when the patient became perfectly convelascent.-Lancet, June 3rd.

On the Medical and General Treatment of Lacal Disecses, in preferente to the Tratment ly Operation. By Thomas Ilont: Heme Bay. In the carlier days of surgery, the dread of "the knife" on the part of the patient, and the tinidity of the surgeon -at that periud only hall an anutomist-presented a more than sufficient check to the unduc practice of eprative surgery; and if the improved anatomy of modern times has removed one objection, the pain attending the severer optrations has, till recently, presented another obstacle to their too frequent performance. That obstacle, however, apiears likely to ranish under the very ceneral use of anxesthetic egents, and there now remains no objection to operative surgery, apart from those considerations which segulate all medical treatment,-viz., its disadyantages and dangers, as contrastod with its advantages or necessity. There are indeed many operations, the propriety of which can only be determined by the last-named question,-viz., their urgent necessity. Some of these may be highly hamgerous, extersively mutilating, or even douhtful in their resilts; yet if they prove the only atter. natire between life and death, their performane at some risk. may be justifiable. Other operations may be advantageous and cligible, though not absojutely necessary to life, or cven to the recovery of the paticnt. All these guestions are, by the common consent of the profession, referred to what ate celled the establist:ed "principles of surgery." Many of thee principles, and muc.a of the practice of modern surgery, tugcther with thic views of the nature and treament of locel discase, which preval in our hospitals and in infimatios, are of recent origin. A large proportion of them are regarded ats among the improvements of the present contury; and as many of the views of the eighteenth century have been exploded in the nineteenth, those of the present day may be destined to yide to the rapind advance of seicnce, and to be exploded in their turn. The piaciphes of surgery are still, therefore, entithed to veneration, only so long as they can be shown to be foanded on the mostadranced diseoveries of medicul scionce; and as medical seicned is sfll in its infancy, (seceing wo have yet to learn the natule and phenrmema of fathammation, the rudiments hoth of diserase and of recovery), is calm and practical inguiry into the necessity and propricty of certain opcrations of daily vecurrence, can never be decmed unseasunable or preposter. uus.
The whect of the writer of these remarks is to promote such an inquiry among the members of the association. The facts which he proposes to bring forward will not be addaced in oder to support sweyimer assertions or dogmatic inforences on his own part ; they are ration intended to elicit from the nembers other facts, cither of a similar or contrary tondency, and to invite discuscion on a subject which has as yel been treated with too much tender. ness and reserve. It is mich to he regretted that those menter; of the profession in whose hand the operative dejartment is chiefly placed, arenot as yet reguired by law to pussess a know. ledge of those higher principles of war ant on which ehedly the propricty of operations must be decided-viz, the powers and himits of medical tratment.- That many of the "pure" surgeons. of the day, as they are eathed, ate well acquanted with phamacy. medicine, and genchal therapentics, is rither a hapy aceident than a matter of conare; yet with these, modicine, uftandespised, is atways rexaded as a minor ubject of study. The physician is setdom called upon to $a_{i p}$ ty the resourecs of his art to ithe treatment if lucal diseases athectiag the extermal organs of the body; and if the gearral practitioner is required to be instructed in both these dequrtments, it may be sand that surge genetally entrusted by the public to determine the propricty id
 catimes fion en mumitat a funclion. The realt which mght bo
opected from this arrangement is-ashaoss in oserutins. Whether this result lias been realised to any serions extrnt, is a question of monomous inturt, - a gucstion witich must suoner or later undergo a professional scruting of aswore and searahis character.
The subjecta to whien this inquiry is applanile art as mamerous
 face of surerical science, and in 'anar stioction for ditacusaion, fe-
 servation if life, rather than to the dificulty of tate iarformance.
Strangulatel" Herniu-The cficicisy of a ckulfa aid persevering employment of tha taxis, in preforonen i., the division of the stricture' by the lailf, has atresty heen
 ual. No less than fomr enprocponkets famen of then
 strong case agamst the frequent werpmane of the amention'. It has been demonstrated, as far as demonstration is aphionablo, iteat by the taxisalone, conducterl on panciples lased on amatamy and physiology, and continued for a muris honetr intion that is at
 may be reduced long after the ocemrence of sympons whiel, in the opinion of the best anthotites, woulh mot oaly indicete the urgent necessity for a division of the strictare, but wath inter. dict all further manipalation of the tumpar as a mischicvoes and hopeless expedient-us a wanton trifing with the paticnt's hfe. And not only has tho plan succected onee, by a lacty chance, but in the hands of all the four correspondenia, above alluded to, it has never onec failed. As jut ney writer in the journal his ventured to impugn the praclice, ar to sey onc word in the justitication of the prevailing plan of operating in every case presenting triting difficultics in rediuction. The giestion thond nots, zament resi here. The operation for hemia is full or dangers. Simple and casy in its performance, it tou frepuent!y fails to save the phtient's life to justify its hasty or indiscriminate adoption. On the otiact hand, the gentle and pationt employnent of the taxis is attended by no danger whatever ; the force apphed to the tumour is rexnbatid by the principte of hydrestatic presure, and is mom.re likely, th bruise or inflame the contents of the tumur, than presure uposi the projecting mombrancs of the paturient utems is latime to bruise the futal sealp, surronaded as it st hy the protecting leghur :amii. It is, indeed, sare that the pain of a strampalated hernaia becomes sensibly increased by a diserect application of pressere to the tumour, even if inflammation hats atready taken phace. All inflamedsurfaces are relieved by the steady application of equally diffused pressure. The induly dilated blod-vessels are surported and sustainct, the venous circulation is prometed, ame the insenesed action of the arterial eapillates is chereked and contined to deti. nite limits. The linid contents of a hemia ate abmirably adapod to regulate and ditiase the presenre from withou. Bvery part of the lumour munt riceive an copal impule from thy dertat of pore sure which tends to contruct its bulk, and so hang as the cioculation is gring on in the solid propurtions of tise tumbur, preserare
 and at the same time chechine the foree of the entrane nif howd by the arteries. "tie wonder is, nut that the tanis shouh seeceed uecasionally in cases condemned to !e uperated upon, bat that it
 cial Jutrrail.
 Bune.-This is, haid duwin ats follows by Hicot! ;-...


1. Very rate ex ith youme sub. 1. Very fronent in yont!. jeets:
: Syphiliso antiocedomb.
2. Compart fextarew fhe bom: attackied.
4, Superficiat layers atlarhos.
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tondency to cireamerib: tion.
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Li, incti, Iane 1 f.

## Miscellaneous.

## 






 Cuurts, in costo that the hes appated tid the Coant Royale of Pontare, whin will probilj revers tas judgment, as, in 1828 ,
 staterts; sco fanert, Naj 12,1813 -The Dulin Quarterly foumal of Mondicel Scichee recommends a new kind of restraining

 int heain of the ons. The idra is. our insathe friends (we mean our frients who have charge of the
 that the has periomed owarioma; an! 28 jntients, 18 of whom reconered.-In Buent there are 250 phrsiciane, 8 female practitioners resivered in the Disctory, and 18 Thomponnians and quacks. Busta must prove a herative market for the sale of Lubciia and Cavenne-1t is said that the Grand Sulan of Turkey has arderef a cask of chbereform for the use of the scragtio. - Jancut-Aha athempt was made latily ait Sunh Ilampton,
 D., whon he lad attinted ian labor:. The athered assiult was nade mure than a year asy. The aushnad nud wife had become thoroughty bupersed with the grons indelicacy of having malo accuachurs, in consequence of reading certain benks advocating the impropricty of employing mate acenuchens in midwifery cases; they broeght is complent for the purpose of exhilhiting their abshorrence of it, arid w prevent a repetiona. The artion wos dis-miswed.-Conicmsor? From Ibuston Journal, July 26, $1845 .$. 'There are 7t dentists practising in Eistom.-Ir. T. H. Heck, of Alhany, Fo favorably linewn on the profession for has lescarches ian Medieal Jusisprudence, after having hat charge of in Academy its loin.
 preparation of a sew elitern of his wotk on the Eldments of Modient
 shecess in his uadenaling, man avai! him, he has then,-1 fomah illeican dwarf, $2 \bar{J}$ yons. hhe, mensuring 25 inches in height, und weightug only isthe, is living at Mitamotas. She is the lyth chind of her prents-Dre' Hamilton has resigned the

 ated at the Daversity of Lendon. He wat one of four sent by the Bengal Cosuntil of Edecation to stuidy Medicine in England: -A State bunatic Anglum is atout to be trected at Harrisburg, Penn,- 1 bill prohibiting the inportation of adalterated drugs, hashately pensed (onnerss.-Dr. Wiath, the statist of Glaspow. dien latcly vey peor.- - The Foundiag Lhamital of latis, iss now



 discolumed suma afor inmersine but in the comse of a fow days
 arphay of the lang, ©e., has heen heantifully preserved.- The

 pesformed by Mr. Wathey, assisfol by Mr. Eramons Wilson and



inmate of the Brighton Hospital, and the bones of the foot being found extensively diseased, amputation was recommended by the medical ufifers, but the pratient wonld not consent to lose his limb. He then cane up to town, and Mr. Wakley andertook an "peration, the result of which, if successful, would be to leave him still the use of the disabled font. The operation was one never before attempted in this conntry, and the large surface that was necessarily cxposed, the nuntier of strong ligaments and tendons that were to be divided, the difficulty of cuting out and disarticulating so deeply scated and strongly-knit a joint as that of the ankle, coupled with the general constitutional debility of the patient, rendered the operation a protracted and a hazardons one, and left the chances of his nhmate recovery extremely doubtful. The patient is now perfectly recovered; he has gained considerably in fesh and strength; and is able to walk about very well with the assistance of a stick. The defomity, considering the large mass of bone removel, is slight, and the inconvenience in walking, trifling.-Cholera-I, ctiers from Moscutw of the 3 rd, announce that the chulera had brgun to decline in that citp. The disease was rapidly approaching towards Hinarary and Bukovine. One-third the number of cases attacked, died at Galacz. In the citics where it rages, the people desert them. Giurgewo is depopulated from this cause. The disease prevails also at Silistria, Furterkay, Popica, and three other citics on the front:er of Wallachia. It is remarkable that the sickncss has not been increasing un tise side of the Danube which extends into Bulgaria, except at one place called Maczyn; and still more re. markable, none of the sailors on that river have taken it. At Moscow, 1724 have jallen sick, and 728 died between the $33 h_{1}$ and 20th June. The discase is reported also to have just broken out at Nicolagew, in Clicrson, and in the quarantine at Odessa. At Constantinople, the discase continues to make great havoc, and also in some villages situated on the Bosphorus-The num. ber of students in the medical schools of France, is 1875, of whom there are in Paris 800, Montpelier 175, and Spasburg 77 . The balance is about equally divided among 20 minor schools in the Provinces. Spain numbers 1500 students, of whom there are in Madrid, 1100, and in the united schools of Barcelona, Cadiz and Santiago, 400.-1t is reported that Mr. Arnott, surgeon of the Middlesex Ilospital, has been appointed sargeon to the North London Ilospital, and Professor of Surgery in University Collcge. -Dr. Bennet has been elected Professor of Institutes in the Unversity of Edinburgh, vacated by the translation of Dr. Allen Thompson to the Professorsinip of Anatomy in the University of Glasgow-A fatal case of poisoning by arsenic is recorded by Dr. Castle, in the London Medical (Bazette, July 14, quoted from the I'rovincial Journal, in which the whole amount taken was 1.83 gr . in the form of Fowler's sotation, and this during a period of five days. It is the smallest fatal duse from this poisom on record." Intense inflammation was set up in the alimentary canal, and appeirs to have destroyed life by indirectly afiecting the heart, and indneing fatal syncope. The puison was deteeted in the stomach, its contents, and $m$ the liver.-Willian Bowman, Esq., has been appointed Adjunct Professor of Physiology at King's College, London, witi Dr. Todd.-Veracity of Homwo. puthists-" The readers of the late Britioh and Forcign Medical Review will recolleet that during the last year or two of its exis. tence, it contained some statistical statements of the results of the homeopathic practice, pursued by Dr. Fleischman at his hospital in Vienna. But it is not all gold which glitters. His state. ments, it appears, are mere forgeries, as has been ascertained by an examination of the books of the establishment made by h: Balfour. In his report, Dr. F. had stated, that of 64 cascs of pheumonia admitted during 1846, only two died, or 3 per cent, whereas it has been found in the books that in the space of three months, three persons once patients, died out of 19-viz., © per cent. It was also stated that all the patients with ague waze cared, save two who died, whilst the borks gave within the above-mentioned quantum, the name of a pationt who left the hospital in a worse state than when lie entered it. Finally, two cases of pleuritic, effision and general ansarca were reported as cured, whereas the individuals left the house in exactly the same atate as when they were admitted."-Lancet.

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MONTREAL, SEPTEMBER 1, 1848.

## HR. CODFRRES LETTER AND TIE REPEAI ASSOCLATION.

So loug as the members of the Repeal Association continued to induge themselves in anonymous lucubra. tions? against ourselves, so long have we maintained silence against their personal attacks. It is, and has been, our opinion, that if the cause in which they were embarked was good, and the motives of the par. ties honest, there was no good and substantial reason why the writers should withhold their names, or seek for a medium for communicating their ideas beyond the only professional one which the Province possessed. We have repeatedly stated that our columns are not for a party (and it is a matter of sincere regret that parties cxist), and we think that the admission of $D_{r}$. Coderre's lengthy letter, the only one received from any member of that party, and incon. veniently long, considering the press of original communications, will prove our sincerity in this respect. The profession has now before it the views and the ob. jects of the two parties, into which the faculty of Lower Canada is now split; and while we accord to Dr. Coderre somemerit for making out his case in the way in which he has done it, i.e., making the best of a bad case, we do not intend to let his ietter pass without some reflections suggested as much by its matter as its style.

If, however, Dr. Coderre expects that our business is rigorously to follow him throughout his rambling production, and to answer the objections which he urges seriatim, he is most grievously mistaken. A number of them condemn themselves, and therefore require no remarks whatever at our hands. Upon a second class, which are but the mere expression of Dr. Coderre's opinion, as differing from our ownhaving already, in previous numbers, expressed our own-we leave our readers to decide; and on a third, as the argumen hinges entirely upon the supposed quantity of legal acumen which Dr. Coderre possesses, their value must, of course, depend upon the exact appreciation of the quantum, and that value may be beautifully determined by a comparison of the legal attainments of the medical author of the letter with those of the late Attorney General. Dr. C. forces the comparision from us, and if he suffers by it, it is not. our tault.

The remarks, which we now intend to make, have chiefly reference to the signatures to the protest, and in these we intend to be as lrief as possible. 1st, With reference to the signature of Dr. Robitaille, we ask Dr. Coderre why, even admitting the conversation to which he alludes to have taken place, and which we certainly did not hear-we ask, why was not the Christian name added? What was the object to be gained ly the omission of the Christian name in this, as well as other instances in the protest. Was it that the name of one known to the profession should be mistaken for one unknown to it? We panse, in this case, for a reply. The authority which dictated the use of the surname, most surely also dictated the use of the Christian name, and why was that Christian name omitted in the protest? Let Dr. Coderre answer this.
2. With reference to Dr. Badeau: Dr. Coderre's reason for having entered this gentleman's name in the protest, is no reason at all. Dr. Badeau sought amendments in the act, which every member of the corporation is sceking, but not a repeal. Dr. Coderre admits having used Dr. Badcat's name without authority, and attempts a most lame excuse, wilhout even an apology for his fiult.
3. As to the name of Dr. Duhe, Dr. Coderre aimits his crror.
4. As to the name of Dr. Tasse. In this case, the publication of a letter umder his signature, compels us to place him in a siagular position. We mentioned his name on authority. The same authority now permits us to use their names-and that authority is Drs. Arnoldi and Sutherland, to whom Dr. Tissé distinctly stated, that he had given no permission to Dr. Coderre to use his name in the protest. We thus adduce two wimesses of the fect of his having done so.Dr. Tassé's subsequent denial, by no means disproves the fact. Misconception might arise in the case of one witness-"Unus' tcitis, nullus testis"-but "in the mouth of two witnesses shall the truth be established."

There is a point, however, in Dr. Coderre's remarks concerning Dr. Badean, which we intend to notice in a special manner, as it demonstrates to a nicety the petty devies to which the party stoops for the purpose of kindling and maintaining an enmity against the Institution. We proclaim it to be utterly unworthy of every right-minded member of the Profession; and as we are perfectly persuaded that not one half of the Canadian country practitioners have seen the Bill to read it and study it for themselves, the attempt at the perversion of its spirit and obvious import, is the more
to be condemned. We will now translate the passage : -"Since the operation of the Aet itself, there is no longer protection for those who are not members of the Corporation; and more than two-thirds of the practitioners of the Province are in this situation, and none of them ean become members of this Corporation cxcept after four ycars' probation; that is to say, four years after having made application to become a member." Where, we ask Dr. Coderre, is his authority for this wanton statement. Is it to be found in the Act? Let ins sce. "And be it enacted, that the College of Physicians and Surgeons shall have power 4thly. To fix the period of probation which persons must undergo before being eligible for clection as members of the College, which period shall not be less than four years," \&c., \&c. And again: "Be it enacted, that all persons obtaining the certificate for license to practice from the Collere of Physicians and Surgeons of Lower Canada, shall be styled Licentiates of the said College, and be, consequently ${ }^{*}$ in due course of time, eligible to be clected members of the same." Any person reading these extracts, camot failto notice an explanatory comexion between them. What is the "due course of time"-the probational "period of not less than four years?" When does this probational period commence? From the dat" of the "certificate for license!" And in the first instance, this rule is made to apply to all who werc licensed beforo the passing of the Act; and in the second, the those liecused subsequenty; and we must here deliberately state this as cur conviction, that a mind, only, imbued with an overweening desire of making its possessor notorious, and unscrupulous as to the means by which it may effect its object, can put any other construction upon these extracts.

Based upon this fair and legitimate construction of the act was the conduct of the members of the corporation at its last mecting in Quebec; and the bye law framed in accosdance with it. Every member of the profession, who hard heen a licentiate of four years standing, was at onec admitted a member of the corporation upon merely signifying his desire to cither of the District Secretaries, atuy time before the October meeting of the Board. Thus, and at the first oppor-

* Words are sometimes, in argument, unfortumnte things, and prove stumbling blocks to those who cannot appreciate their value. Were this adverb omitted, Dr. Coderre's argument would even then not be worth the trouble of refuting, for the act would declare, that any subsequent member would have to renew his license, or obtain a "certificate of license from the College." This would then be the strict legal and lngical interpretation of the act. The use of the adverb, coupled with the words which follow, "in due course of time," so clearly indicates the meaning of the words, "period of probation," and its commencement, as to render any forther rensark a work' of supererogation.
tumity, was admission to the Corporation thrown open to the profession at large, and upon equal terms for all. This occurred in the month of May. Have these bye-laws heen sanctioned yet? They have not. And why? Because. Dr. Coderre and his party have remonstrated against it; and the Executive has temporized, and constituted itself into a kind of judicial court, to consider the questions mised by the party, and which the Court of Queen's Bench is the proper and only trihmal for deciding. Should the October mecting of the Board of Governors arrive without a previous ratification of the bye-laws, the profession will then be enabled to judge who those are "whose measures tend to destroy the harmony and order which should exist among practitioners, and above all, injure the general interests of the profession."

We have not yet done with Dr. Coderre and his production. A little more of Burnett's disinfecting fluid, and the matter will keep matil next month-nay, what remains shall keep.

Coroner's Inquest-Death Accelerated by Salivation in the Third Stage of Tubercular Consumption.An inquest was hed on the 11th August on the body of Mrs. James Ferry, whose death was reported to have been accelerated by the improper exhibition of mercury, said to have been administered by an unlicensed practitioner named Young. The facts of the case, as elicited at the inquest, are simply these: Mrs. P. had been, until a very recent period before her death, under the charge of Dr. Arnoldi, and Dr. Holmes had seen her in consultation. The existence of tubercles in leer lungs had been clearly made out; and for some time before the intermission of Dr. Arnold's attendance, a palliative treatment had been most judicionsly adopted. In consequence of the advice of triends, Young was called in, who stated that her lungs were not diseased at all; that her liver was tuberculated, as well as her kidneys, and that the utcrus was somehow or other displaced, and that the cessation of the catamenia, a common symptom in phthisis, was due to that displacement. This latter he endeavoured to rectify by some kind of manual interference, some traces of injury from which were visible at the post mortem; and he persuaded the patient to submit to a system of salivation, which he assured lier would cure her. In the course of three or four weeks, however, despite Young's predictions, the patient breathed her last, having been visited for two or three days by Dr. Burns, who found her suffering from salivation, with its concomitants. The inquest was held to determine the the propricty of Young's practice, and how far it may have accelerated the decease. Drs. Nelson and Hall
having been summoned on the part of the Crown, performed the post mortem cxainination, and found the left lung the seat of extensive tubercular deposit, with anfractuous cavities, as well as the superior portion of the right lung, with very general pleuritic adhesions on the left side, and superior portion of the right. The liver slightly enlarged, with a tendency to granular degeneration; the mesenteric glands in a tuberculated state; but all the other abdominal viscera of normal appearance. The uterus perfectly healthy, and in natural position. The upper part of the vagina, immediately behind the os uteri, presenting an ecchymosed appearance, which Dr. Nel. son considered as the effect of injury. Although the question of salivation was well substantiated, still there was not evidence adequate to bring the exhibition of the mercury home to the prescriber, the books of the apothecary, which were sent for and examined, failing in the proof, in conseguence of prescriptions having been compounded for several persons named Mrs. Perry by Young's orders. The verdict returned was, "that the death of the deceased was accelerated by the improper administration of mercury, but there is no evilence to prove by whom such mercury was exhibited." This verdict was strictly in accordance with what was eliefted at the inguisition, and we can therefore find no fiult with it, because the jury could not travel beynnd their record; but we have no doult, that had the evidence been conclusive, the verdict of the jurg would have inculpated Mr. Young to a rather alarming extent. Young has escaped in the mean while, and in the mern while he prosecutes his trade, not, most certainly, to the damage of any practitioner in this city, but most assureds to the jeopardy of some who have since placed thenselves in his hands. The College of Physicians and Surgeons have, it has been fully proved in the case against Gregory, (a Thompsonian praclitioner,) reconded in this journal, no right to prosecute in their ourn name, but steps have been taken sinco this inquest, which will ensure conviction upon the alduction of the required proof. We cannot, however, avoid this reflection, that if the people prefer the boasts and pretensions of an empiric to the deliberately formed opinions of a regularly educated practitioner, whose reputation is dependant on his prognosis and treatment, we say, by all means let it be-to, for there is nothing so sure of proving, by sore cds, that it is not all gold that glitters.
Formula for the Preparation of the Etherial Solution of Gun Cotton. - We have found considerable dificulty in preparing the gun cotton in a state to ensure its solubility in sulphuric eiher. Our experiments would lead
to the conviction, that the finest quality of gun cotton, which we have had nodifficulty in preparing, is insoluble, or neally so, in that liquid. A gun cotton, of ready solubility and easy manufacture, may be prepared as follows: Take of nitric acid, sp. gr. 1.350 (the ordinary sp. gr. of commercial nitric acid) $\overline{\mathrm{j}} \mathrm{j}$. ; sulphuric acid (commercial) $\bar{z}$ iv. Having mised the acids in a glass vessel, stirring them with a glass rod, add immediately, of freshly carded cotton, 3 ij . Dij., and digest for the jeriod of fiftecn minules. The acid is now to be poured of the cotton, and the latter washed with water until litmus paper is not affected. The cotton is to be finally squeezed between the folds of a clean towel, to remove as much water as possible; teazed out, and finally pressed between shects of bloting paper, until quite dry, and instantly thrown into rectified sulphuric ether. The quantity of gun cotton thus formed is sufficient for about a pound of ether. It shoukd form a transparent, colourless liquid, somewhat of the appearance of thin mucilage.

SILEETS FROM MY PORTFOLIO.
By A. Von Iffiand, Eeq., M.D.
(Concludet.)
It is scarcely necessary to enter at length bere upon the numerons advantages which hospital practice possesses over every ofther means of medical instruction; suffice it to repeal, that the pationts are more absolutely subjected to the disposition of the practitioner; he is not embarrassed by the contrariness, the whims, and prejudices of the sick; his ordinances are superintended by intelligent students, and executed by vigilant nurses ; the facility and number of post nortem examinations serve to test the correctness of the diag. nosis of each case, to correct mistakes, and to ascertain, with precision, the nature of the organic lesions, that have given rise to each train of symptoms. These are some of the circumstances that impart to hospital practice and experionce its great value, and has caused it, at all times, to bo regatded as furnishing the most important and precious information on practical details, as well as shedding ia flood of light on pathological science.

If, then, we contrast the advantages which a student must derive from attending hospital prastice, with the fritering away of four or five years of the most valuable time of his life in the closet of his country patron (or perhaps city or town), reading medicine, surgery, anatomy, and cven that all important branch, chemistry,* without order or method, and without any

[^2]other assistance, save the occasional explanation of terms by his siperior, sometimes cven uninteligible to him-can it be possible, that a few months attendance at lectures upon all these departments of the profession, in any university, college, or school of medicine, could possibly quality hin to enter upon all the dutics of a practitioner! and thereby assume a charge, certainly the most responsible and the most important which can be confided to any member of the human family !

Here I could portray many deplorable results of an imperfect medical education, but details so humiliating and revoling are remote from my present purposes; yct the bare mention of their having occurred ought, on the part of the student, to induce him to leave no means untried, and to spare no labour, however long, to master every branch which he may ultimately be called upon to exercise.

The situation and prospects of the country practitioner have, I believe, been sufficiently reviewed, to leave nothing very desirable on the part of those who, now procceding in the course of their studies, are looking forward to the rural sections of the province, in which to commence their professional career. The actual sfate of the profession is such, indeed, whether in town, city, or country, as to prove far from flattering in the way of prizes* to the aspirant, and, I must confess, that unless the inisplaced vanity or misdirected ambition of parents, is timelily arrested, in educating their sons to a profession, for which there exists, probably, no aptitude (but to attain which, requires long protraeted studies, enlarged intelligence, a judgment solid, strong, and clear, and a habit of application, which no difficulties can shake, no labours tire), their future life will be embittered with regret and sorrow.
proced in his pinysiological inquiries; without it, one of the most moportant of the animal functions, respiration, is beyond his comprohension : and, that it is impossible to pequire an accurate and precisc knowledge of chemistry without actually making experiments himself. 'The necessity of ehemical knowledge to the practitumer in metieme is suficiently apparent; for withont it. ho can neither become aequainted with the various solids and fluids of the anmal hody, nor can he understand the action which different medicinal substances exert on cach other recipro cally. In phamacy, this branch of knowledge is still moreessential, as being continnally called for. There existe, however, a fundamental crror in the cducation of young men in this respect; they usually pass much time in learning the preparations of a great number of medicaments, in a sort of routine, and after. wards attend a course, or at must two, of lectures on chemistry, from which they, at best, acquire a superficial knowledge of the science.

- Whatever political influence country medical practitioncrs may attan in their lucalities, they certainly cannot all expect to become M. P. P.'s, and thereby sceure a round hundred (exclusive of quadruple travelling expenses) a year, as the wages of seven or cight wecks' labour in cushioned, chairs-much less of all becoming superintendente of schools, deputy ndjutant gene, rals, \&c. 太c.

It is full time to warn those parents, that, if res. pectability of character forms the principal object they have in view, in hestowing a superior education upon their sons, and, to realise which, they sometimes withold some share from the rest of the family, and even restrict their own wants and enjoyments, the best means to secure consideration and distinction in life, is to avail themselves of other avenues than those offered by leamed professions, now increasing beyond the requirements of socicty, and at once better suited for the development of energetic industry, and the peculiar idiosyncracy of their moral capacity.
Education is applicable to all the avocations of life, and surely to none more so than agriculture : and it is a truth not to be controverted, that a non-appreciation of the high respectability attached to this noble art, its extreme betckwarness in improrement, and failure in obtaining that wealth which is consequent upon its perfectability, can all, all be traced to the absence of education. It is to celucation that this great and im. portant art is so much indehted for the numerous and accumulative bonefits it daily confers upon mankind, and, from its close and happy alliance to chemistry, and its majestic march,-we know not what the agency and influence of the latter may yet have reserved in store! And yet the impression in the rumal districts is still, that superior education is only applicable to the learned professions. Fatal crror! which nothing but education can remove, and that too, whappily, hut in the course of many years!

Need we look round for the many other honourable opportunitics which daily present themselves, 10 rouse and call forth the chergies of intellectual minds, and urge them forward to other carecers of usctulices, and thereby become the ate itects of heir own fortunes! Need we adduce examples to prove, that in all the practical concerns of life, it is in proportion to cducational acquirements, and the wisdom of exertion, that large shares of wealh, and the artificial distinctions in society havo been attaned, not only in towns and cities, but in the rural districts of the province!

From what I have already observed in the foregong pages, it would be needless to disguise the trath, that at the present time, there is not a parish, however small or cextcusive, which is not provided with more medical practitioners than can be required to meet the necessities of the inhabitants, and who (as stated before) from their poverty, and their disinclination to call in their assistance, except at times when death is near at hand, and then frequently the quack is pre-ferred-cannot, it must be confessed, but offer very precarious means of subsistence to the regular practitioner, as well as render all his efforts unavailing to maintain even that ontward respectability of character
which his position demands. It is also worthy of observation, that albough towns and cities increase annually in their population, it is nol so in the seignorial country parishes, but, on the contrary, a diminution is scrinusly felt during several months of the year, by the considerahle mamber of young and middle-aged men (single and married) who leave their homes for the United States and other distant parts, where chantiers are established, manifestly producing effects highly prejudicial to the interests of agriculture, and the monals and well-heing of the inhebitants.

It is true, that no avocation of life is entirely exempted from difficulties, but how much more must these appear insumountable in a profession in which the chance of success almost gencrally depends upon the fluctuating whims and caprices of the multitude, incapable of appreciating the superiority of the profound over the ignorant physician! Should; therefore, the young practitioner, endowed with very superior attainments, make choice of a rural section to commence his professional carcer, he must unhappily prepare himself-independently of the extremely illibe. ral resources which he can expect to derive from his professional labours-to experience the full intensity of wounded peide and feelings, hy witnessing very inferior acquirements frequently usurping his claims to confidence. He will soon perceive, that in the medical profession, he will have to contend with a false and fraudulent repuation for talents. If he possesses a strongly sensitive mind, this peculiar and anmalous state of things-upon the truth of which he probably never before meditated-camot but render his position painfilly depressive. And yet, with all these operating upon an anxions and oppressed mind, he will also discover other impediments, against which he will also have to struggle, and which in other avocations than that of a practising physician and surgeon, he might, without any personal sacrifice of feeling, have easily surmounted.

Having devoted a long series of years to the medical profession, booth in public institutions and private practice, and under all the alternations of gratification and disconayement, it is my intention, at no very distant period, to submit to the nedical publie a more extended inquiry into the past and present state of the medical profession in Camada. In the mean time, I trust that the foregoing sheets, resulting from long expericnec and observation, will meet with some regard on the part of those for whom they are principally intended.

## NOTLCES TO CORRESPONDENTS.

We have to notice a communication from our estecmed correspondent at Quetiec, who, in this instance, signs himself" Mcdicns." White the latter part of his lettor furmshes a fine sulject for scvere criticism, "s il hetails in partnership betwecn a regrular prictitioner and a biny, the latter of whom visits and pis. scribes, and whose hardihood leads him even to allempt opera. ti,ns on the cye, for which we should concrive that he is amenable to punishment in accordance with the act; the cm. nivance at such a procedure is a disgrace to the practitinner who does it, and camot be tan sevcrely censtued:Still, we do not conccive that there is anything improper in that practitioner having as many offices as he pleases in different parts of the city in which lie practises, or even
out of it, if it so suits him. As we dio not think that aur correspondent has taken up the guestion on proper grownds, we would beg of him to reconsiller the subject of his cummanication. On the other matters, we will be most happy to hear from him.

We have had commumication of a letter from Dr. S. Gilmore, - of Three Rivers, containing the particulars of an assautit commilted upon him by a medical student, in consequence of Dr. G.'s having been one of the examiners at the last meeting of the Aledical Board at Quelec, who rejected him for license to proutice. We think it befler to winit until such time as the trial for the assauth has becn over, wheni we will publish the matter in detail. We hope Dr. G. will do his utmost to have the ruffian properly punished, and we should think thist his counduct prechules him from being ceer permitted to enter the frof essiun.

Dr. Bovell ('Toronto). The notes sent will he inserted in their proper places.

Dr. Hunter, (Humilton). The purcel was fonnd in the Ex. change Hotel, the waiter hazing never delivered it to Mr. Ti. who was ts have taken it. We vocre not made aryainted with this until we male inquiry after receipt of Dr. He's letter.

Mr. Fulsom is at present collectins for this lournal. We hope our sulscribers will respond to the call mute on them.

## BOOKS, Sc., RECEIVED DURING THE TWO MONTHS of JULY and august

The American Journal of the Medical Sciences; July.
The Western Journal of Medicine and Surgery; vol. S, new series, Nos. 4, 6; third series, vol. 1, Nos. 1, 2, 3, 6 ; vol. 2, Nos. 1 and 2. We are muctis ubliged to the editor, for his attention to our request.
Southern Medical and Surgical Journal; vol. 3, No. 12; vol. 4, Nos. 1, 2.

New Urleans Medical and Surgical Journal ; July-Nos. 12, 3 , and 5 , vol. 3 ; and No. 3, vol. 4, we would be particularly' ohliged by receivmer through our agents, as advised.

Buffalo Medical Dournal; July, August.
Missoni Medical and Surgical Jomral ; July.
Western Lancet; July.
St. Louis Medical and Surgical Journal; Nu. 5, wol. 5, never arrived ; send to our agents.
New Jersey Medical Reporter; July; No. 2 of this volume has never arrived; would be glad to receive it throngh our agents.
'lhe People's Library, a Gychisedia of Arts, Ac.; vol. I. No. 1; from the agents.

## Jummal of Education; July.

Agriculhural Jommal; July and Angusi.
American Jurnal, and Library of Dental Science; July.
Circular of the Cenlege of Physicians and Surgeons, of New rork.

The Medical Examiner; July and August Nus not arrived.
Procedings of the State Medical Convention held in Lancaster, April, ISAS; and Constitution of the Medical Suciety of the State of Pemnsylvania, then adopted. 1845.

II ydrot Therapentios, or a Treatise on the Water Cure, dic. By Robert IImmer, M. 1). Turonto, 18.15.
The Charlesion Medical Juurnal and Review ; July.
The Medical News and Library; Junc, July.
The Dublin Quarterly Journal of Medical Seience ; Nus. 8, 9, and 10 .
The Dublin Medical Press ; regularly.
The London Medical Gazette; regularly.
The Provinetal Mcdical and Surgical Journal ; regulaly.
The New York Ammalist; regularly.

The parcel of Messis. Wood \& Co. has arrived.

MONTHLY METEOROLOGICAL REGISTER AT MONTREAL FOR JULY, 1848.



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[^0]:    * The reader is requested to compare this with Dr. Mackelcan's third conclusion, beginning with the words, "further, that where I differed slighty as to treatment;" \&c.
    $\dagger$ "A physician ought not to take charge of, or prescribe for; a patient who has recently been under the care of another member of the faculty, in the same illness, except in cases of sudden emorgency, or in consultation with the physician previously in attendance, or when the latter has relinguished the case, or been regularly notified that his services are no longer desired.: Under such circumstances; no unjust and illiberal insinuations should be thrown out in relation to the conduct or practice previously parsued, which should be justified, as far as candour and regard for fruth and probity will permit; for it often happens that patients become dissatisfied when they do not experience immediate relief, and as muny liseases are naturally protracted, the want of success in the first stage of treatment, affords no evidence of a lack of profeasional knowledge or skill."-Code of ethics, Cap. 5., Sec.

[^1]:    * The sa w used on this oceasion was a metacarpal saw. Hey's saw would answer mach better for dividing the fibula as it will work in about one-third of the space required for another saw, and, consequently, the incision through the peronei muscles, \&c., need not be of near the same extent. The reasonfor snapping of the fibmla was to prevent the further destruction of the zoft parts with the ecalpel for more roon for the eaw.

[^2]:    * Every step which the student makes must remind bim of the necessity of a knowledge of chembistry; without it, he cannol

