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# UPPER CANADA JOURNAT. 

or


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\text { JUNE, } 1851 .
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## ORIGLNAL COMMUNICATIONS.

Art. XI.-Ticport of Opthalmic diseases. By S. J. Stratfond,M. R. C. S., England.
Repoht of the Tononto Dispensairy fon Disenses of the Exe, 1851.
Number of Patients under treatment, during the year ending the list June, I\&51 ..... 149
Cured ..... 108
Greatly relieved ..... 20
Discharged incurable ..... 10
Ceased to attend from some unknown cause ..... 6
Remain under treatment ..... 5
The various diseases treated, bore the following proportion to thetotal number of cases presented at the Dispensary :
Simple inflammation of the conjunctiva ..... 11
Purulent opthalmia ..... 6
Gonorrhoeal opthalmia ..... 16
Purulent opthahnia of infants ..... 3
Pustular opthalmia ..... 10
Scrofulous opthalmia ..... 12
Tumours of the lids ..... 3
Gramulated conjunctiva ..... 27
Hordeolum ..... 3
Forcign body in cornea ..... 1
Acute corneitis ..... 9
Partial dilitation of the pupil ..... 1
Carried forward ..... 101
Brought forward ..... 101
Acute iritis ..... 9
Amaurosis ..... 9
Muscee volitantes ..... 3
Cataract ..... 7
Inversien of the eyclids ..... 3
Eversion of the eyelids. ..... 1
Fungus homatodes of the eye ..... 2
Ephiphora ..... 4
Stillicidium lachrymarum ..... 2
Acute inflammation of the lachrymal duct. ..... 2
Chronic do. do. ..... 3
Obstruction of the nasal ducts ..... 2

## Simple Conjunctival Inflammation.

Of the eleven cases of catarrhal opthalmid, three occurred during the month of November, and eight in February, March, and April,-during which months the east wind prevaled in a remarkable degree, being generally north-easterly, while it was also for the most part dry and dusty. The influence of cold upon the constitution appeared generally as the exciting cause; but that the simple influence of cold upon the body is likely to produce the disease, without a necessary condition of the system, is contrary to medical observation. The nature of this condition is at present hid in much obscurity: but I believe it will hereafter be found to be greatly dependent upon the pusitive state of the blood, at the puiad the body is submitted to the influence of cold. When the blool is loaded with the effete, and useless material of the constitution, that should be removed by the excretions, then is the individual nore susceptible to the influence; and it is a curious fact, that the speedy solution of the catarrhal disease, goes hand in hand with the liberation of the excrementitions mattcr by the proper emunctories of the body. For example: the urine is aluays found loaded, and the stools dark coloured and biliary before the inflammatory action subsides, while the eheck upon the excrementiious operations of the skin, has been a subject of popular observation in all ages. Duning the early part of the year, the influenza also occurred pretty generally in Turunto, and no dubbt, had some influence in the production of the opthalmic disease. The immediate cause of the complaint appeared to be dependent upon intemperance in four individuals, who had becu exposed for a considerable time to the might air. Two were washer-women, who had heen working hard in rooms heated by a stove; while one had walked a considerable distance in the rain, and got completely wet.

The symptoms presented by the individuals labouring under the complaint, were more or less redness of the congun tinal mom-
brane, where it covers the lids or is refiected over the sclerotic coat, while the corneal portion did not appear perceptibly to païticipate in that condition. This redness evidently depended upon the entrance and circulation of the red corpuscles of the blood in the minute vessels of the membrane, in which previously only a transparent or colourless globule had circulated. This' change is so obvious to the senses, that it constitutes one of the most fivourable positions in which the various results of inflammatory action may be presented to the observation of the student. This redness was of a bright scarlet colour, the vessels large and evidently superficial with regard to the selerotic coat, moveable upon it, and when not very intense and that coat was implicated in the complaint, its minute pink vesiels might be seen shining through the conjunctiva, presenting a very marked contrast. This redness of the conjunctival membrane was, in the first commencement of the complaint, irregular in intensity, shewing that some faciculi of its vessels were more filled or conjested than others; but as the disease proceeded, the redness became general throughout the membrane, but this was always more marked at the circumference, and diminished as the vessels proceeded toward the cornea. In one case, small apots of extravasated blood were observed effused into the areolar tissue, in othiers more or less effusion of a thin serous fluid was seen distending the structure of the membrane, and giving it a thickened appearance.

The pain for the most part was of a smarting charaacter, not very severe, and generally confined to the inflamed structure. In two cases however, which seemed to be connected with influenza, the pain was more extended, implicating the liead and throat, shewing a participation of the complaint in the mucous membrane of the frontal sinus, the fauces, and trachea. There was not much intolerance of light, save in the two eases above inentioned.

A sensation of dryness, stiffness, and as it were the presence of a foreign body between the lids, was always complained of, especially at the onset of the disease; but after a time the lachrymal secretion became more profuse, when some of these symptoms ceased. The secretion of mucus was at first thin, but afterwards became more titick and glutinous, and in the most severe cases assumed the character of pus.

In the two cases mentioned above, as being connected with influenza, there was catarrhal fever, frequent chills, heat of skin, disordered stomach, and foul tongue; but these symptoms I apprehend were more dependent upon the influence of the epidemic than upon the opthalmic complaints.

The treatment consisted, in the first place, in the employment of geners and topical bloodietinar, arenediar th the intensity of


antimony. The use of warm fomentations to the eyes, and blisters to the nape of the neck or behind the ears. These were continued until the acute inflammatory action had subsided, after which stimulating and astringent applications were applied, such as the vinum opii or the solution of the nitrate of silver. I have necasionally employed the powerful astringents in the very commencement of this complaint, as recommended by Mr. Molen and Mr.Guthric, but think that their use is to be deprecated until the acute stage has subsided, when they are remarkably beneficial.

## Purulent Oplthalmia.

Of the six cases of purulent ophthalmid, all occurred during the months of August and September; four were sent from the country, and had resided in marked malarions districts, while the others were inhabitants of low miserable hovels in this city.

The symptoms of the disease, when seen in the carliect stages, were to all appearance identical with the eomplaint above deceriled; but as it progressed (which it often did with great rapidity) the conjunctival memirane was marked by high vascular action, bright redness, great tumefaction, and profuse discharge. The chemosis which was caused by the swelling of the membrane, was in come cases so great as almost to overlap and cover the cornca. The eyelids were also greatly swelled, being filled with a serous fluid, rendering it difficult to uncover the globe. The lachrymation was great, and was soon accompanied by an abundant purulent dicharge, that was forced between the lids at every attempt to moover the globe, and often ran down the face in streams. The comea which in the commencement was seen bright and clear, ahhough surrounded by a ridge of elevated conjunctiva, by degrees became dim, and after a time perfectly white, showing that inflammatory action had implicated its structure, and that lymph was deposited in its substance; in one of the cases sloughing took piace to a considerable extent, so that an evacuation of the humours of the eye was the consequence. In another case a small ulcer was oberved, which having penerated into the anterior chamber, permitted the escape of the aqueons humour, and the iris falling forward, was afterwards seen adhering to the cornea. As is obvious from the above examples, the inflammatory disease implicated other textures of the eye, besides the conjonetiva, and according to its extemt, produced more or less derangement of the several siructurec, and in two cases produced total destruction of the eye. The pain from the first was severe; but as the disease spread to the other textures of the glohe, it became excruciating, often attended with exacerbations, which were generally most severe at night, comprehending not only a pain in the eyeball itself, but attended with a fulness and throbbing of the brow and temple, and not unfrequently with gene" ral headache and fever.

In none of these cases did the ophthalmia seem to proceed from contagion, but appeared to arise sporadically, from the state of the weather, and the local peculiarities of the atmosphere.

In all these cases free depletion was immediately practised, and blood was allowed to flow until syncope was induced. ${ }^{\circ}$ On examination of the eye after the bleeding, the deep red tint of the conjunctiva was changed to a paler hue, the lids were less swelled and distended, and the pain and uneasimess was greatly diminished; in but one case was it necessary to repeat the bleeding, in consequence of a return in the severity of the disease. Active purgatives, such as salts and tartarized antimony, were freely administered; considerable advantage seemed to be obtained by the nanseating effect the antimony produced, which evidently held the ground that had been graned by the previous venasection. When the deeper tissues of the eye were evidently influenced in the disease, calomel and opium was exhibited with marked effeet; and in these cases we pain in the brow only subsided upon the constitution feeling the intluence of the remedy.

The local applications to the eyes consisted, in the first place, in the frequent ablution of the part with lukewarm water, in those cases in which it seemed to sooth the pain and afford a feeling of comfort to the patient, it should be often repeated. In many of these cases, however, I have found the local application of cold water freely applied to the eyes produce great relief. I have never had an opportunity of using the donche as recommended by Dr. Gerick, but I am convinced from the experience I have had of it in othe: complaints, trat it is a powerful antiphlogistic remedy, and deserves a trial in such cases.

As soon as the active inflammatory symptoms had began to subside, as was known by the diminution of pain, the feeling of distension, and the distinct appearance of the purulent diseharge, am injection between the inflamed lids of a solution of alam (four grains to the ounce of water) was often repeated; and after several trials, if this was found to be borne with advantage, a weak solution of the nitrate of silver (two grains to the ounce) was used, and this was gradually increased in strength to ten or twelve grains as the discharge diminished, and the swelling and thickening of the lids subsided. Under this treatment the chronic inflammation of the conjunctiva soon subsided, and in most cases the opacity of the comea was easily removed, and the cornea restored to its wonted trauspareney, perfeet vision being the result; but in some cases, it must be confessed, the success was not so complete, for more or less opacity remained in consequence of the lymph deposited in the structure of the comea.

It is curious to observe these different results, and difficult to explain them. A knowledge of the minute structure of the part may, perhaps, assist our judgment.

From the observations of physiolugists, the cornea is ahown to consist of different structures: first, on the outer side, the conjunctival layer of epithelium and its basement membrane; next, the proper structure of the connea; then, the elastic hamina of the membrane of the aqueous humour, with its proper epithelium The proper structure of the cornea is a fibrous stracture, the las ers following the curvature of the cornea, constituting a serics of more than sixty hamellz, which lie inscoperimposed phates, for the mogt part parallel, but crossed by others at an angle: the revulting interspace opens on all sides, and forms tubular spaces, which are moistened with a minute quantity of transparent fluid, which tends to preserve the tramsparency of the fibres,-the tuat ensemile affording a density of structure, and giving a peculiar translacence to the part, which constatates its most admirable characteriatic.

These different structures of the comea are evidently nourished by two sets of vessels, a superficial and a deep. The arterial tranks of the first set evidently belumy to the conjumetira; these are prolonged a short distance upor the margin of the cornea, and inosculate with each other, during health carrying but a transparent fluid, to supply the basement membranes of the epithelium; while the deeper set of vessels which nourish the proper substance of the cornea, are derived from the ciliary arterie, and terminate in loops of veins in the sclerotic cuat, after the manner of cartilage. From these radiate minute transparent vessels that proceed to the tubular structure of the cornea, conveying a fluid of such little density, that the transparency of the part is perfectly preserved.

When under disease, these facts become abundantly evident. Great numbers of these minute vessels, then distended, carry the red globules of the blood, and as may be seen, clearly mark the two distinct sets of vessels. Red vessels are now seen traversing the conjunctival layer, appearing like the radii of a circle, extending nearly to the centre of the comea, while the pink tint of the scelerotic texture, in true inflammation of the cornea, gises an imperfect demonstration of the deeper set of vessels.

The vessels of the conjunctiva covering the cornea may be long distended with red blood without proluciug any permanently bad effects, dependent, in all probability, on the facilit! of distention in the part; so that a deposit of lymph into the structure of the cornea, would seem unfrequently to be comected with the disease. Not so the minute vessels of the cornea proper, for it seldom happens that they become affected without the cornea appearing more or less opaque; coagulable lymph being canied into its structure, and perhaps deposited in the tubular spaces. In many cases, as I have before remarked, this appears to be quickly removed by the absorbent functions of the minate transparent vessels; while in other cases, we must presume that the ly mph has become organized as in other textures of the body; or it may have
become hardened and sacculated in the tubular spaces; and although a foreign body, is permitted to remain uninfluenced by the circulatory apparatus, would seem to have assumed a tolerance similar to that which obtains in the case of shot and grains of powder, or other foreign bodies, which often remain quiescent in the animal economy for some time. Many cases of permanent opacity of the cornea must, I think, be thus accounted for, as we often see an opaque spot completely surrounded by transparent cornea. Here we should be able to see vessels carrying a fluid of sufficient density to preserve the character of the opaque spot; for, was this deposit under the influence of the circulation, coagulable lymph must still be conveyed to the diseased structure; or was it but the transparent fluid of health, it must be obvious that the dense matter once removed, and not renewed, the part would eventually become transparent: showing that, in some cases at least, this opaque matter is beyond the action of the absorbent vessels, and must remain an inorganic deposit,-explaining the reason why it is perfectly uninfluenced by any remedial means.

The case of $p_{i}$.ulent ophthalmia, in which sloughing of the cornea occurred, was an inhabitant of this city, of a leucophlegmatic debilitated constitution (not long out from Ireland), evidently suffering from the effects of poor, unhealthy diet, and vitiated atmospheric influence. Here, a free administration of bark, and a generous diet, combined with the local employment of astringents, soon arrested the sloughing, and encouraged the rapid cicatrization of the wound.

## To be contiaued.

Art. XII.-A Case of stricture of the Urethra, treated by external incision. By Edward M. Hodder, M.C., M.R.C.S., Eng.
The rash or unnecessary use of the knife in surgery, can never be too highly deprecated; nevertheless, there are certain cases in which, by its timely use, diseases of many years' duration may be removed in a few moments, and the patient restored to perfect health, and to that position in society from which his sufferings had compelled lim to withdraw.

Professional opinion will often condemn a novel mode of treatment, or an operation, before a sufficient number of facts have been recorded whereon to base that opinion; it is with the view, therefore, of adding another to the already numerous cases published, of stricture of the urethra cured by an external incision, that I am induced to publish the following case:-

Henry M•L., æt. 34, in the employment of the Board of Works, of temperate habits, had been the subject of stricture of the urethra for nine or ten years.

For the last two years the stricture has been perfectly impermeable, the various modes of treatment usually rccommended having been tried without success, no instrument having been passed into the bladder.

He was sent from the country to be placed under my care, and in answer to several questions, gave the following history of his case :-

Between nine and ten years ago he contracted a virulent gonorrhoa, which lasted for a considerable time, and for which he employed several kinds of caustic and astringent injections. On the subsidence of this disease, he found some difficulty in making water, the stream being small and spiral, and a greater offort than usual being required to pass it.

In this condition he remained until two ycars aro, his general health continuing good; and the symptoms arising from the stricture, although steaduly increasing, yet, amounting only to a serious inconvenience.

About this period he was subjected to much exposure and fatigue, and shortly afterwards he found that the urine no longer passed in a continuous stream, but guttution.

He applied to a Practitioner in the neighbourhood for relief, but without obtaining any; numerous unsuccessful attempts being made to get an instrument beyond the stricture.

He next proceeded to New-广ork, and was there subjected to various modes of treatment; anomyst wihers the canstic bougie was frequently made use of, but with no better sesult; and after remaining there for some weeks he returued to Camada.

His general health now began to sufficr; le lost strength and flesk; his bladder was becoming irritable: and the frequent and long-continued efforts to void his urine deprived him of rest at night.

At the time he came under my care (May, IB-43), he was in a wretched condition: he had been undble to follow his occupation for many months past; he was pale, thin, and dejected in spirits, irritable in temper, his appetite gone, his nights slecpiese, in consequence of the incessant desire to urinate; a strong urinous smell was perceived, and the serotum, upper portions of the thighs and adjacent parts, were excoriated from the constant diribbling away of his water.

On making an examination, I found that the stricture was situated about five inches from the orifice of the urethra (nearly an inch behind where the anterior portion of the scrotum joins the penis), and could be distinctly felt through the integuments covering it, like a piece of catgut or tightly twisted whip-cord. A patient and careful attempt to pass the smallest simed catheter or bougie entircly failed; not even the point entering the strictured portion in the slightest degree. The extent to which the urethra was contracted
being, at least, from $\frac{3}{3}$ of an inch to one inch, and so dense that it was doubtful whether a passage could be effected-notwithstanding Mr. Liston's assertion that the difficulty can always be overcome by "a man with hands to act and a head to guide them."

Having stated to my patient the difficulties which existed in his case, and mentioning the possibility of relieving lim by cutting down upon the strictured part, should the ordinary means fail, I had great difficulty in persuading him to allow any other plan of treatment to be first attempted, as he became impatient for the operation: but his general health not being in a favourable condition for its performance, I advised him to postpone it until the state of his bowels and digestive organs had improved; so that whilst he was under constitutional treatment, I had an opportunity of trying to overcome the stricture by the most persevering, yet cautious, use of the catheter and bougie.

At the end of a fortnight, his health being somewhat improved, and the urethra remaining as impermeable as ever, I consented to operate; and the next day, assisted by my friend, Staff Surgeon Humfrey, it was done, in the following manner.

His nates being brought close to the edge of the bed, his legs were separated, and he was placed somewhat in the position for lithotomy; a grooved staff was then passed down to the stricture, and held in its position by Dr. Humfrey; a free incision, about two inches in extent, was made upon it, dividing the integuments covering the root of the penis and the upper part of the scrotum, and the urethra opened above the stricture. A small probe was now attempted to be passed through this part, but that proved to be impracticable: the dilated portion of the urethra behind the stricture was next opened without difficulty; a No. 7 catheter passed easily in o the bladder and the urine was drawn off. An unsuceessful attempt was again made to pass a probe turough the diseased portion from belind forwards; failing in this, there was no alternative but to divide the stricture with cautious touches of the knife; this was, in fact, the only difficult step in the operation; and the difficulty here arose from the more than gristly harduess of the part, the extreme contraction of the passage, and the yielding condition of the adjacent parts. It was, however, soon accomplished; when a large-sized catheter wec easily passed into the bladder, the patient removed to bed, and the wound covered with the water dressing.

He bore the operation well, and not more than an ounce of blood was lost.

He slept well that night; his general health began rapidly to improve; the catheter was removed at the end of the third day, cleaned, and easily re-introduced. The wound was healthy, and at the end of three weeks it was entircly healed. A No. 9 catheter
passed with the greatest ease into the bladder, and, as a precautionmeasure, he was directed to pass it every morning, and allow it to remain in the passage for a few minutes. Eiyht years have elapsed since the operation; he is now in the enjoyment of robust health, the father of a family, and the urethra as free from contraction as it ever was.

The foregoing case will probably be read with interest at the present time, in cousequence of the warm diseussion which is going on between some af the leading Surgeons in Great Britain, respecting the mode of treatment that should be adopted in those long standing and intractable cases of stricture, formerly called "impermeable," but now surnamed " impassable."

Professor Syme, of Edinburgh, strongly advocates the cure of stricture by external incision, giving as his reasons, that the operation is unattended by any danyer; that strictures of the utmost obstinacy may be, thus, speedily removed, and that the relief afforded is more permanent than that which is obtained in any other way; and in proof thereof, states, tiat he has operated on thirtyeight cases "without any fatal result." At the same time, he somewhat boastingly denes the impermeability of the urethra in any case, and considers as an unwarantable proceeding the division of a stricture at the point of the catheter.

On the other hand, Professors Fergusson and Lizars denounce, as unjustifiable, the cutting of any patient for stricture when an instrument can be already passed into the bladder, unless the patient be either in danger, or ugently demands the operation himself. In speaking of this subject, Mr. Fergusson, after stating the opportunities he has had of observing with accuracy and care the effects of the treatment of stricture by perineal section, says, "We are now fully impressed with the conviction that neither the one doctrine, that strictures ought never to be cut, nor the other, that perineal section is frequently necessary, and should be unsparingly carried into practice,--is either correct or safe to act upon. We have seen several cases in which the patient was brought into such a state of misery and danger, and the difficulties in the ordinary treatment were such, that it was found absolutely necessary to resort to the perineal section; and the operation has been followed by such excellent results, that any Surgeon who could call such practice unwarrantable would either show great prejudice or want of experience.
"On the other hand, again, we have seen death resulting from the division of the urethra, even in cases where there has been bot little difficulty in the operation; and this has happened in instances where it was by no means absolutely necessary to perform perineal section. In one case death resulted ten days after the operation had been performed, when even a moderate sized catheter could
be passed into the bladder,-an unconquerable argument against the performance of perineal section in cases where the cathetar cam be previously passed into the bladder, as recommended by Mr. Syme."

Mr. Ferguson further remarks: "We are of opinion that, in no instance whatever should the operation of perineal section be performed, unless the most careful attempts have been previously made to introduce the catheter, or unless the patient be either in danger, or is particularly anxious to undergo it."

## Art. XIII.-Observations on the pretended prevention of irregnlarity of the Tecth. By J. B. Jones, Toronto.

Tue directions given by various writers upon Dental Surgery, and adopted by many practitioners have, as I observed in my introductory letter, for a long time formed the foundation of a system of treatment of children's mouths during the second dentition.When we see the injurious consequences, which in a great majority of cases do, and must result from these practices, we are bound to examine them with strict attention, as well with regard to the frequently imaginary evils which they pretend to obviate, as to their efficacy in producing the effect intended, and not less to the mischief occurring from their employment.

The following gives in detail the basis of practice laid down by Mr. Fox:-
" To assist the permanent teeth in aequiring the proper direc"tion, the mouth should be frequently examined, that operations may "be performed at the time required, for it is not enough to remove "an obstructing tooth, when the new one is observed to be coming "through irregularly, because then it always requires considerable "time to bring it into its place, and still the irregularity may "remain unaltered." Thus far, Mr. Fox's observations are useful when acted upon with discretion, but the following passages afterwards occur:-" Sometimes the absorption of the fangs of the tem"porary teeth goes on so slowly that they do not get loose pre"viously to the passing of the new tooth through the gums behind "them; if then the permanent molares have been cut for some time, "and there be a fulness of the gums behind the temporary inci"sors, it will be expedient that the two central incisors be "extracted immediately, although not yet loosed. It will soon be "seen as the new teeth arise, whether they have sufficient room; "if not, it will be necessary to remove the temporary lateral "incisors." ${ }^{*}$

[^0]The observations on all other teeth are a mere repetition of these directions, and will not the efore require quotation. It would, inded be well, if in the resulation of the teeth, the directions of mature were attended to, instod of those based on the peemiary interest of the Dentist, (as is two frequently the praction). In this, as well as in all uther cases, where medical treatment is required, it should not be torgotten, that the legitimate object of the surgeon is confaned to the aloption of renedies for diseases, or the proper direction of the natural functions, when deranged; and can it for a moment be doubted, thagt nature has eacreived her wonted aid in providing for orgatus of such paramomut importance to that main source of health, strengeth, and comfort-digestion? ('an it, I say; for a moment be suppesed, that she has been so negiigent in the structure of the human tecth exclusively-that they' should be constantly in need of such harsh and matural interierence? I have seen instaces where six or eisht teeth have been brutally luged ont, amd I will wenture to assert, withont the necessity of removing one. I do not dare to venture words in expression of the indistation I feel at such infamous quackery, such barbarous bratality; besides the umecessary infliction of such a fearful anount of pain-the shock to the whole nervous $3 y$ stem is probably never torgotten by the poor litule sufferer, and causes a lasting dread of the very thourht even of having necessary operation pertormed howcher simple; and when we consider that all this is inflicted on pretence of preventing an evil, which, in most cases, there is not the sheghtest reason to apprehend, fand in those fer instances wherein it might uecur, it can be detected in time to prevent any permanent malformation)-it is certainly cnonght excite just repronch. I hope at least it will stimulate the attentios of medical gentlomen attendat upon families, and canse suitabi: precautions to be taken by the credulous parent ur orher guardian But there are other equally important reasons why the first teeth shoudd not be too early removed; it should always be borne it mind, that the comeaion between the temporary tooth and it succeeding permanent one, continue to exist by means of a fibrows or ligamentous cord, extending from the sack of the later to the neck of the tormer, "hich of course must be broken if the deciduow tooth be removed before the satk is absorbed. Contil, therefore the secretions of the enamel are perfected, (which is not the cass until a very short time before the edge of the permanent toot passes through the gum), the premature extraction of the temperary teeth must unquestionably interfere with the health and unformity of this substance.*

[^1]There is yet remaining to be shewn, arising from this empirical practice, a still greater evil, which seems to have been most neglectfully overlooked, though of the greatest consequence, and should be constantly borne in mind by every practitioner who has the care of the second dentition, and never lost sight of by the parent. The first teeth, so long as they remain in the socket, tend to praserve the proper arch of the jaw, and prevent its contraction.

It would appear that the dentist has quite forgotten that while every other part of the body is undergoing alteration in form and size, the alveolce and maxillary bones are partaking of the same influence of nature, and by the time the milk teeth become loosened, the adult teeth are ready to fall into their places, assisted by the natural expansion of the jaw, and thus the correct form is preserved; but on the other hand, if the first teeth are extracted long before the second are ready to take up their relative position, the jaw in most cases will contract ; but in every case where several of the permanent teeth have come through, they will approximate, and where the objectionable practice of premature extraction has been resorted to, it has evidently added still further impediment to their assuming their proper range. Thus, the very operation which professes to prevent irregularity is the cause of establishing it permanently, and that in its very worst furm. Those I am about to mention will se: $c$ as an ilhsstration of what I have just described.

The first I shall notice is that of a young lady in this city, Miss G. aged twelve years, who called to consult me concerning a discased lower molar tooth; she directed my attemion to the upper cuspidati, the one on the right side projecting in front of the lateral and bicuspid; these teeth had mot in an angular ditection at the points, entirely precluding the possibility of the misplaced tooth ever gaining its proper position; the only remedy left being to extract the bicuspid. I enquired as to the treatment that had been used, and ascertained that the first cuspidatus had been extracted four years before, and that the permanent tooth did not pass through the gum for at least a year after, although it was easy to trace its projection,* in consequence of which the first canine tooth had been extracted, the corresponding tooth on the opposite side which had been left to nature's own guidance was perfectly in its place. The second case is that of a boy eight year's of age, who was taken to a dentis: by his mother, in consequence of the two superior central permanent incisors coming through the gums in an angular direction, that is, with the front edge projecting outward and the Jateral inward. This is in fact the natural position of those teeth before they pass through the gum; they always make their appearance more or less in that direction, assisting, as they assume their ultimate position, in expanding the maxillary arch. Nature seems to

[^2]have given the teeth this property, but the Dentist not taking this into consideration, proceeded at once to extract the temporary lateral incisors. The consequence is, that the front teeth have come so far quite straight, but have grown hard or close upon the tem-: porary canises, and left no space whatever for the permanent late: ral incisors. Surely it does not require any very great acumen to discover that it is inconsistent with common sense to force one tooth in the place where another is coming in the regular course of nature; the very uct of doing so gives the forthcoining tooth a wrong direction, and this, forsooth, is what is called "regulating children's teeth." I cannot believe that any practitioner can be so egregiously ignoraut as to err so palpably; where such an operation is performed, it can only be done from mercenary motives. What: therresult of this case may be I cannot pretend to say; it would be very injudicious to remove the canines; they are in fact the main support of the form of the maxillary arch, and are not changed antil the permanent bicuspides liave taken the place of the temperary. molares.

I could bring forward many such cases, but the foregoing arex sufficient to show the egregious absurdity of extracting teeth prematurely. I contend that where nature requires assistance, art should await and watch its progress, and that there is infinitely: more mischief done by tampering injudiciously with the mouth: than by leaving it alone altogether. In almost every case there will be sufficient time to regulate any derangeinent after the second dentition is completed:

The subject of my next chapter will be the mechanical pria-: ciples involved in this empirical practice; but before concluding: this, I will give a little advice to persons having the care of childrens in the nursery: An opinion may with tolerable certainty be arrived at as to the future formation of the mouth and teeth fromthe following observations at the time the second dentition com-mences:-

1st-If the jaw be well formed and semi-circular rather that: elliptical.

2ud-If the temporary teeth separate from each other, as thix: indicates a disposition of the jaw to expand;

3rd-If the first permanent grimding teeth appear to be well. staped, and of moderate size (these teeth which are at the ex: tremities of each jaw, are generally cut at the age of from six to eight years).

4th-If there be no-considerable enlargement of the gum (always allowing for a necessary fulness for the second teeth thei rapidly forming, this is a never failing proof that the second set is: taking up the places of the first

Sth-If the parens and family, especially hose whom dat children most resemble, hav rall formon monthe and rardat nothe e

Anv. XIV.-"The Law respecting the office of Coroner," or so much thereof as is practically useful for the guidance of Medical men mud Coroners. By Alex'r Keefea, Esq., Barrister, \&ec., Osgoode Hall, Toronto.

During the last session of our Provincial Legislature, a Bill was introduced by the Hon. J. Hillyard Cameron, and became law, under the title of "An Act to amend the law respecting the office of Coroner," which has so direct a bearing upon both the Medical and Legal professions, as to require some lengthy extracts from its provisions.

After a few brief remarks upon the affice of Coroner generally, it is proposed to enter into the consideration of the law as it now stands, under the operation of that act.

The office of Coroner is a very ancient one, at common law, being of equal antiquity with that of Sheriff, and appears to have been first instituted in connection with the latter, for the preservation of the peace, when, in England, the Earls gave up the wardships of the counties:

The qualification for the office, in this Province, apparently rests more upon political than other capital. In England, during the time of Blackstone, lands to the amount of twenty pounds yearly value were required, a sum which he conceived so grossly inadequate, that he complained "that the Coronership was in his "time no longer nudertaken by gentlemen of property; and that "though, formerly, ne Coroners would condescend to be paid for "serving their comntry, yet, for many years, they only desired to "be chosen for the sake of the perquisites." It is a source of gratification, however, to us, to reflect, that this remark is not particularly applicable to the Coroners in titis Province at the present day, who, generally speaking, are persons of unquestionable respectalility, and their position in lite such as to cast no diseredit on their employment.

The Coroner is chosen for life, but may be removed upon being appointed Sheriff (an office inconpatible with the other), or being incapacitated by years or sickness. By statute 25, Geo. III. C. 29., extortion, neglect, or misbehaviour are also made causes of removal.

The office and power of a Coroner are cither judicial or ministerial, but principally judicial.

The statute A, Edw. I., "De officio Coronatoris" makes these to consist, first, and principally, in inquiring, when any person is slain or dies suddenly, or in prison, concerning the manner of his death. When such a death happens, it is the Coroner's duty, upon receiving notice of the fact, to issue a precept to a constable reguiring bin to return a comp:tent number of jurors io appear
before him, at a stated place, to make an inquisition. This inquisition must be held before the Coroner as presiding officer. The jury (who must consist of twelve at the least) are to be sworn, and charged by the Coroner to inquire how the party came to his death. The inquisition must be held "super visum corporis," for if the body be not found, the Coroner cannot sit (unless by virtue of a special commission issued for the purpose). The inquest, by the common law, is required to be held at the very place where the death happened, though not necessarily at the same place where the body was viewed; or the jury might adjourn elsewhere if found more convenient. Upon this inquisition. the Coroner must hear such evidence as is offered either on the part of the Crown or the person suspected, and $i t$ is to be given upon oath.

By the statute passed in this Province, last session, it is enacted, that no inquest shall be holden until it shall be made to appear to the Coroner that there is reason to believe that the deceased came to his death under such circumstances of violence or unfair means, or cuipable or negligent conduct, cither of himself or others, as require investigation, and not tlrough any mere accilent or mischance.

This act also provides, that, whenever it shall appear to the Coroner that the deceased was attended at his death, or during his last illness, by any legrally qualified medical practitioner, he, the Coroner, may issue his order for the attendance of such practitioner as a witness at the inquest; and where the deceased was not so attended, the Coroner may issue an order for the attendamee of any legally qualified medical practitioner, being at the time in achal practice in or near the place where the death happened. By it the Coroner may also direct the performance, by the medical witness or witnesses, of a post mortom examination, with or without an analysis of the contents of the stomach or intestines: Provided, however, that if any person shall state upon oath his brlief that the death was caused, partly or entirchy, by the iaproper or negli: gent treatment of any medical practitioner or other person, such medical practitioner or other person shall not be allowed to assist at the post mortem examination.

It is also enacted, that whenever it shall appear to the majority of the jury that the cause of death has not been satisfactorily explained by the witnesses, in the first instance, they may name to the Coroner, in writiog, any other legally qualified medical practitioner or practitioners, and requive him to issue his order (which order he is compelled to issue under a penaity of ten pounds) for their attendance as witnesses, and for tie performance of a pos morten examination, whether one shall have been previously pero formed or not. And further, to cover disbursements and trouble, that such medical witnesses shall receive remuneration upon the
production of the Coroner's order on the Treasurer of the county, in their favour; and, on the other hand, shall forfeit ten pounds for every reglect to obey an order for their attendance.

The rate of remuneration to medical witnesses for services under the act, is,
$\left.\begin{array}{c}\text { For attendance, in obedience to an order from the Coro- } \\ \text { ner, without a post mortem examination, }\end{array}\right\} \begin{aligned} & 50\end{aligned}$ $\left.\begin{array}{c}\text { For the same service, with a post mortem examination, } \\ \text { without an analysis of the contents of the stomach, }\end{array}\right\} \geq 100$ For attendance, post mortem and analysis, - - - - 500 $\left.\begin{array}{l}\text { Mileage (to be proved by the oath of the medical man), } \\ \text { per mile, }\end{array}\right\} \quad 10$
The act provides for holding an inquest in every case of death of a prisoner, or lunatic confmed in any lunatic asylum, gaol, prison, house of correction, penitentiary, lock-up house, \&c.; empowers Coroners to fine jurors for non-attendance, not exceeding twenty shillings, and makes provision to prevent the inquisition being quashed on account of certain technical defects enumerated in the statute.

The inquisition must be found with the concurrence of at least taclue of the jury. If any bu found guilty by such inquisition of murder or other homocide, the Coroner is to commit them to prison for further trial; and in case of death by misadventure, must inguive whether any deodand hath acerued to the Queen by such death; and must certify the whole of this inquisition under his own seal, and the seals of the jurors, together with the evidence thereon, to the court of Oyer and Terminer, or the next assizes.

By a statute of this Province, $4 \& 5$ Vic. c. $24, \$ 4$, every Coroner, upon any inquisition taken before him, whereby any person shall be indicted for manslanghter or murder, or as an aceessory to murder before the fact, shall, in the presence of the party accused, if he can be apprehended, put in writing the evidence given to the jury before him, or as much thereof as shall be material, giving the party accused full opportunity of cross examination; and shall have anthority to bind by recognizance all such persons as know or declare any thing material touching the said man-langhter or marder, or the said offence of being aceessory to marder, to appear at the next court of Oyer and Terminer, or gaol delivery, or other court at which the trial is to be, then and there to prosecute or give evidence against the party charged: and every such Coroner shadl certify and subscribe the same evidence, and all such recognizances, and also the inquisition before him taken, and shall deliver the same to the proper officer of the court in which the trial is to be, before, or at the opening of the court.

As to the Coroner's onia remuneration upon inquests, it is in
general payable out of the county rate in the shape of fees upon each inquisition taken; the amount of fees is regulated by different statutes, chicfly by 25 Geo. 11., c. 29.

Another branch of the Coroner's office is to inquire concerning shipwrecks, and certify whether wreck or not, and who is in possession of the goods. Concerning treasure trove, he is also to inquire who were the finders, and where it is, and whether any one be suspected of having found or concealed a treasure.*

The Coroner is also a conservator of the Queen's Peace, and becomes a Magistrate by virtue of his appointment, having power to cause felons to be apprehended, whether an inquisition be found against them or not.

The ministerial office of the Coroner is only as the Sherif's substitutc in executing process. For, when just exception can be be taken to the Sheriff for suspicion of partiality (as that he is interested in the suit, or of kindred to either plaintiff or (defendant), the process must then be awarded to the Coroner, instead of the Sheriff, for execution of the Queen's writs.

The passing of the act of last session (which is nearly a transcript of the English act $6 \& 7, W \mathrm{~m} . \mathrm{IV}^{\prime}, \mathrm{c} .89$, , has placed the law in Upper Canada, "respecting the office of Coroner," upon the same footing with that of Lingland, if we except some mimportant alterations that have been there subsequently made as to the mode of appointment and local jurisdiction of Coroners.

Its adoption here, after its sire had been tried in England for several years, and found to supply the principal defects in the preexisting law, may also be regarded as a step in the right direction in the way of law reform; and is a strong aryument in favour of the position, that more general public benefits would acerue from the introduction into our statute book of many late English statutes, (with such remodelling as wouki meet our wants) affecting different subjects, which are founded upon reports made, after a thorough. investigation of the old lan, and the mischief requiring remedy, by the Reai Property, Common and Criminal Law Commissioners, than from the huge masses of hasty and crude legistation (" rudus indigestreque moles"), with which we find our ammal present from the Provincial Parliament loaded.

It seems desirable that the golden opportunity afiorded by the welcome " Upper Canada Journal, \&c.," should be embraced, by more experieaced members of the legal profession, for the purgose of distributing information on some of the numerous medico-lcyal peculiarities of our haw, which are brought under their notice more frequently, than under that of the members of their sister profession.

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## Art. XV.-Case of Preternatural Labour. By Chas. Rolis, M.D.,

 Wardsville, C. W.I am happy to find a journal devoted to medical science published in Canada West, at so comparatively early a day : and as you have invited the members of the profession to transmit you any interesting cases, which may, in the course of practice, come under the ir observation, I bave amongst numerous others, selected the following one. Not expecting, at the period of its occurrence, ever to publish it, I took no written notes; but if the outlines furnished, of a case of not very frequent occurrence in this country, are esteemed sufficiently interesting, they are at your service.

Some time since, I was called on to attend a woman in labour (Mrs. McK.) living in the adjoining township of Zone, a distance of twelve miles. She is a stout, healthy person, aged abont thirty: has borne several children, and hitherto nothing unusual had occurred in her accouchments. For the last fortyeight hours she had been in severe labour; two women (midwives) had been in antndance, and, by her own account, she had suffered so severely, by their rough handling, that she preferred dying rather than be put to any further tozture.

At the time of my arrival I found her in a very low condition. The action of the uterus had ceased some time previously; the pulse very weak, indeed almost imperceptible; and the whole vital system completely prostrated from long-continued ineffectual intense action.

On examination, I found the arm, as far as the elbow, and about eight inches of the funis umbilicalis were down and projecting beyond the external orifice.

I immediately informed her husband (who was present) of the neeessary steps which would be required to effect the delivery of the child; at the same time holding out to him but little hope, of a favourable issue, on account of her fecble condition; and i urged upon the woman that she should, at once, submit to the necessary steps, as the nature of the ease was such, no time ought to be losi. It was, however, full a quarter of an hour before my own and her hasband's persuasion overcame her reluctance ; she repeatedly declaring, as $I$ have before mentioned, that she would far rather die than submit to any further suffering than she had already undergone. At last, however, she consented, and in a short time we had her placed in the proper position, and every thing arranged for turning and delivery by the feet.

Giving the woman previously a litile of the spirit of camphor, in water, I furst introdneed the funis umbilicalis, pushing it gently upwards, a little at a time, until it was all returned within the nierus. Having effected this, I took hold of the hand and
arm, and pushing steadily upwards returned them likewise; then gradually introducing my own hand, well lubricated with oil, in the form of a cone, and carrying it carefilly along the body of the child, towards the left umbilical region, until l grasped one of the feet; then moving my fingers to search for the oher, and carrying my hand at the same time forward and a litle to the left, I found the remaining foot, and grasped both firmly in my hand. I then gradually, with a slow but steady pull, brought them both down, until I had cleared the external orifice, and delivered the child as far as the breast; then taking a mapkin, and encircling this part with both my hands, the delivery was completed in the usual way. The afterbirth was shorly after removed, by gently pulling at the cord; the uterns contracted; and the usual bandage put on to compress the abdomen.

The whole operation lasted abont four minntec. During its contimuance I had to administer spirit of camphor several times to prevent fainting. Immediately after the delivery of the pla. centa, I gave a strong composing dranght of 'To opii in water; directed warm clothes to be applied to the abdomen, and porfect rest and quietness. I remained with her during the remoinder of the night ; and for two or three hours subsequent to the termination of her labomr, she had the most violent eructations of flatos I have ever witnessed; indeed the guantity expelled was truly astonishing. 'Towards moming, however, this abated; the othe untoward symptoms improved; and alhough continuing in a very low and weak condition for some days, the gradually recovered, and in three or four weeks was as well as usual.

Remarns.-There are two or three points in this case whid are somewhat interesting. 1st-The net very common presentatios of both hand and funis umbilicalis. 2ud-The extreme depres sion of the woman in comnection with her subsequent rapid recovery. 3rd-The facility with which (owing to the previou: exhaustion:) the turning of the child was effected; and dithThe after eructation of so large a quantity of latus; the re ote and proximate causes of which (as Cullen would say) migh form an interesting subject of investigation to some of yow readers. But it is not so much on their account that I have fur nished the case for publication in your jourual, as from a wis to show to the public and the Legistature how necessary it is the all, whether men or wornen, who are engaged in the practiced midwifery, should be thoronghly qualified by previous study aki examination. There cannot be the least doubt, had this patief been left without further assistance than she had for the firs forf eight hours, in the course of a short time she mest have beent corpse-her husband a widower-and her children motherless She had been attended by two profersed midwives (one of when
is esteemed by the public quite a village oracle) : and yet the poor creature had been allowed to remain in strong labour two days and nights, unassisted, in a case in which every medical man knows, the instant he examines, that assistance is necessary, no attempt had been made in the right direction by these midwives, but the labour had been encouraged to proceed, and the woman tortured and worn out, by their Iruitless efforts to deliver in the preternatural condition in which I had found it; they actually expecting to eflect the accouchment by tugging at the arm, and wondering what in crention prevented the child from being born. Can there be a doubt in the mind of any unprejudiced person that such practice shond not longer be tolerated?

To women, as midwives, I have no objection, if they be properly qualified (as in the old countries) by previous education and examination; but to allow the ignomant persons, who at present are so frequently employed in the comatry parts of Canada, any longer to be so engaged, without proper qualifications, is, in my opinion (and I donbt not other physicians will generally coincide with me) unjust to the public, unjust to the profession who are called on to rectify their blunders, and, above all, most lamentably unjust to the poor suffering patients themselves, who are so painfully and often fatally deladed by them.

Art.XVI.-A case of Impregnation with imperforote hymen. By Jown R. Dickson, M. D. Kingsten, 1851.

Ov the morning of the 29th July, 1850, at 4 o'clock, I was called to visit Mrs. C-. On arriving at her house, I was informed by Mrs. Smith, an educated midwife (who had been in attendance during the past night), that the patient was in labour with her first child, that "the vagina was completely closed, that she did not mind it as long as the pains were not very severe; but since they had become. so, slie was alarmed lest the uterus should be ruptured, or the lining membrane of the vagina prolapsed On exa nination, I felt a strong, unyielding Hymen, apparently imperforate. I did not wish, myself, to make any occular exploration, but requested Mrs. S. to institute such an examintion, and see if she could discover any aperture while 1 went home for a scalpel. After examining closely, she could not diseover any. On my return, I waited a short while to make a more close examination, and try if the expulsive pains Would not rupture the membrane; I found, it remained firm and unyielding, despite the strong pains. I then took an ordinary scalpel, and rolled tape around its blade until within about $\frac{1}{4}$ of an inch of its point, and with this made a $T$ shaped incision into the

Hymen, which was about two lines thick. A few expulsive paius brought forth a well-formed living infant, at its full time.

I endeavoured to get some particulars relating to this patient's former state of health, but she and her husband were both so shy about it, that I could only learn that she had consulted several physicians about her declining health after marriage. but concealed the fact from them, of his inability to effect a vaginal entrance, imagining it was owing to some defect in his own formation.However, the midwife was more successful than I was. She ascertained that, previous to marriage, at her catamenial periods, she suffered almost as much pain as at her confinement; that there was merely a slight moisture exterually; that the re was swelling and tension at this time in the abdomen, which nsually subsided in about a fortnight. Since her marriage,--to use the patient's oon graphic and feelnag words,-she never knew her husband, until hef accouchement

Art. XVII.-A case of Psoriasis palmaris et Scruti. By IIesay Going, L.R.C.S.I. London, C.W.: 1851.

Dr. King's case of psoriasis inveterata, puhiisheti in the last number of your journal, brings to my recollection a most intractable form of psoriasis pahnaris et seroti, occurring in ay oung man of excellent constitution; the disease continued for eight or ten years, notwithstanding the most active treatment. Plummer's pill, with Dover's powder, iodide of potassium, with sarsaparilla and iodine: Donovan's solution of arsenic, iodine and mercury, \&c, were successively and repeatedly tried: local applications being also resorted to, such as citrine ointment, preparations containing creasote, ioduret of sulphur ointment, \&c.,\&c., withont the slightes! benefit being obtained. The disease was completely cured, about two years aro, without any relapse occurring, by the administration of two grains of blue pill and one-thrd of a grain of iodine, three times a day for three or four weeks, without producing ptyalism, no local application being resorted to.

In this case, Donovan's compound arsenical solution completelf failed, although pushed as far as was consistent with safety. What peculiar action the blue pill and iodine, in conjunction, could have exerted over the constitution, I am at a loss to determine, where Plummer's pill, given at night, and iodine with iodide of potassium by day, for a length of time, failed to produce even the slightesi temporary benefit.

## 'TORONTO, JUNE 16, 1851.

## The medical bill.

The subject of a Medical Biil for Canada West being the allabsorbing Medico-Political topic of the day, we propose to redeem the pledge given by us in our last number, of taking up the consideration of it in our present issue.

The invitation conveyed through the pages of this Journal, to the members of the Profession in Upper Canada, to transmit without delay their opinions on this important measure, either as the results of combined deliberations at County meetings, or as the expressions of individual feelings, has been most satisfactorily complied with; and judging from the number of communications which have come to hand, from all quarters of this section of the Province, and the unanimous declarations of their authors on the principle as wel! as the details of the requited Biil, we feel ourselves warranted in declaring, that there is an universal demand for such a measure from the members of the Medical Profession of Canada West.

It would have afforded us much pleasure to have published all the letters which we have received on the subject, for we should thereby have staggered, we think, some of the advocates of freetrade in Physic, by the extraordinary reports of cases treated by free-trade practitioners, and which the writers offer to prove at any time when called upon so to do. These cases would certainly, in older countries than Canada, have furnislied much matter for investigation by coroners, and would have terminated most infallibly in the declaration by a jury in another court, of a verdict of manslaughter against these "uncomnynge and unaproved practysours in fysyk," whom it delighteth some of our sapient law-makers to honour, countenance, protect and support.

The fact is, that while the study and administration of the laws with regard to a man's goods and chattels, are looked upon by the Legislature as constituting a science capable of being acquired, and an are susceptible of being practised only by men possessed of gigantic mental powers, and demanding the most stringent enactments for the protection of those same individuals entrusted with such paramount interests, and almost holy offices, the knowledge of the human body, and all its ailments and injuries, with the right adaptation of remedies, are regarded as matters coming quite within
the reach of any man or woman walking, let his or her position be what it may, whether that of a farrier or a charwoman. Every one knows something of the body, and every one knows something of disease: ergo, every one can practise physic. This is the logical inference of the legislature. Nay we hope, for the sake of humanity, that the levelling spirit of the age may yet be softened by those kindly influences which increased intelligence and extensively called for education camot fail to cffect, and that the day may soon arrive, when in this country the Medical Profession may receive that measure of credit and respect accorded to it elsewhere, for contaibuting not only to the happiness but abo the well-being of our population! The Bill, as submitted to Parliament for its sanction, is a measure calculated to protect the interests of the public, as well as to allance the proxress of medical science; these it is proposed to effect, by the organization of the profession intoa body: unity of action and concentration of forces have at all times been considered indispensable to the suceessful operation of a large number of scattered or separate pieces of machinery; the same obtains with regard to communities of men. Acts of incorporation are daily sought for and granted by the Legislature to bodies of individuals, certainly for the most indistinctand eveninconceivable purposes: for example, to Mechanies' Institutes, Sons of Tempeance, \&c. Sc.; and yet we are astonished to learn, that when notice was given of intention to introduce a Bill for the incorporation of the Medical Profession of Upper Canada, the hon. member so moving was warned of strenuous opposition to be offered to the measure. But let us examine into its clauses, and ascertain the possible grounds for this warlike attitude assumed by our sister profession, the members of which, unfortunately for the country, occupy altorether too many (one-half) of the seats in the Legislative Assembly. The uine first chauses of the Act, inasmuch as they serve inerely to constitute the budy, describe the mode of election of the governing council, and declare the name of the Corporation, and the ittle to be acquired by its members, can surely involve none of the wrath of the above-named belligerous opponents. But we are told, that it is the tenth chase especially against which their opposition is directed. And what is this? A clause to protect the leyally-gualif d inactitioner; the man who has spent his whole life in the study of his profession; who has risked his own existence in the practice of it; who has exposed himself to those dangers, both from contasion and the raging elements, which even the relatives of the sick will often not encounter; and who is ever ready to sacrifice his own comfort and ease at the call of distress and uretchedness-we repeat it, to protect this man from the intrusion of daring and ignonant quacks, (their daring is always proportioned to their ignormese) of "fools who dare to rush in where angels fear to tread,"-this penal clause excites the sympathy of the
country! Why, the very vendors of spirits are protected; the very cabmen and carters are protected by clauses in the city incorporation act ; the hewers of wood and drawers of water-we mean no offence- the timber-merchants and the water-companies are protected; and yet medical men, entrusted with the lives of their fellow-men, must not seek any protection at the hands of the countey, from " umprincipled persons," who even in the sixtenth century "were punished by fine and imprismment, and other.fit and reasomble ways, for mractising from avarice rather than in the faith of a good conscience." We are told, that the profession itself is not in favour of the penal clanse. We deny it: we say that the profession calls aloud for it. We are told, that the country desires freetrade in physic, and that people will employ whom they choose as their medical attendants. Then we say, that these men, if guilty of malpractice should be subject to criminal prosecution, and punisbed for felony or misdemeanour, according to the extent of the mischief done by them. It is said, that no jury will convict in civil process a quack prosecuted at the instance of another party. Then we answer, amend the law, and conviet by summary process. While these are our views with regard to the penal clause, we affirm nevertheless, that statutory enactments will never annihilate quackery and humbug. Men revel in the excitement of novelty and incessant change, even alhough that chatge involve the risk of life.

There is a raciness in the practice of a quack, in the self-confidence which he manifests, in his manner of theating a patient, the novelty of his prescriptions. and the simplicity and apparent sincerity of his explanations, especially touching results, even thongh these are indicative of certain death, while all the time he is representing the certainty of recovery,-all this is captivating to persons as ignorant as himself. But let us leave this sickening topic, and pity the admirers of its subjects, -let us encourage our brethren, holding up to them the lamp of hope; and as the necessity has occurred in olden times, let us cheer them with the consolation, that, although they may suffer persecution from the free trade portion of the community, nevertheless, they enjoy the possession of that which is infinitely more valuable and desirable than either the smiles or frowns of the pseudo statesman, the purseproud philanthropist, or the Beotian eritic.

We pass on now to make a remark or two upon another class of objectors to the Bill, as originally introdaced during the last session by the Hon. J. H. Cameron, and which was amended, albeit altered at the County meeting held in this city on the cad ultimo. It refers to the privilege hitherto always enjoyed by the holders of Degrees or Diplomas obtained from Universities or Colleges in Her Majesty's dominions, of claiming the Provincial license without examination. The alteration carred by a majority on that occasion,
consists in the exclusion of that clause altogether, and the substitution therefor of what we cannot help looking upon as a periect anomaly; we mean a reciprocity clause, with whom? with Universities and Colleres of hundreds of years' standing !! Our opinion on this point has been already pronounced, with that of many others, in the protest, which appeared in our last number. A correspondent on this subject very justly remarks,-" that while "Canadians seem not to hesitate to admit British eapital into this "country, they, nevertheless, refuse to admit British talent." We wonder what will be the effect of the perusal of this reciprocity clause upon the men who constitute the Councils of the British Universities and Colleges! We venture to predict, the inquiry that will follow: "Are there any Lunatic Asylums in that Colony, " or are the proposers of this scheme all native born Yankees?"Surely they were 'born out of time'!" Our contemporary in Montreal, in his last number, just received, writing on this suliject, says, "We regret to perceive that it" (the proposed Bill) "contains "a clause, No. xii., which we hittle lowhed for from our CTpper Canada "brethren ;"-and in inserting the protest, he adds:-" We camot "doubt that it will be very extensively signed, as wall by U.C. as "L. C. practitoners." We long to see how our free-trade legislators will deal with this clause: with regrard to the other sections of the proposed Bill little need be said. We thought that the mamer suggested for the election of the Board of Governors was complicated: -under the existing circumstances of the profession in Upper Canada, perhaps it may prove as grod as any that can be recommended. We shall watch its progress.

Since the above was sent to press, we have been favoured by a friend with a copy of a Bill, introduced by Mr. Richards on Monday last, with reference to the penal clause, which forms part of C. 3, 8, Gee. IV., the Medical Bill now in force. We subjoin the Bill for the perusal, information, and careful consideration of the medical profession of Camada West. 'The honourable member restricts the operation of his Act to Upper Canada only: he has acted wisely, for, every French-Canadian nember in the Honse, we are credibly informed, would most certainly have voted against its application to the Lower Province. That it is a Bill for legalizing quackery, and at the same time opening a very wide door for the vexations persecution of the "benevolent, but well-qualified persons" whom the Ionourable Member has taken under his especial protection, must be admitted by all; for who, in the cases supposed, can prove mal-practice, or gross ignorance, on the part of the offender but regularly educated medical men? And we only trust, that on any occasion of the kind, the latter will lay aside all feelings of delicacy, and endeavour to support the law, should this Bill ever become such :

## ANACT

To amend the Law of Upper Canada relative to the practice of Physic and Surgery.
Wusreas past experience has shewn that penal enactments have not deterred unqualified persons from practising Physic, Surgery, and Midwifery, but, on the contrary, such ensctments have often had the effect of pleventing benevolent persons, well qualified, from lending their aid to relieve physical suffering, and it is thetefore expedient and proper to repenl such penal clauses as may exist in any Acte now in force in Upper Canada in relation to the practice of Physic, Surgery, and Midwiftry: Be it therefore enacted, \&e., That the sixth and seventh sections of the Aet of the Legislature of Upper Canada, passed in the eighth year of the reign of King George the Fourth, and intituled, "An Act to aniend the laws regulating the practice of Physic, Surgery, and Midwifery in this Province," shall be and they are hereby repealed.
II. And be it enacted, That no person shall be liable to any criminal prosecution or to indictment for gractising Physic, Surgery, or Midwifery without license, excrept in cases of malpractice, or gross ignorasce, or isamoral conduct in such practice.
III. And be it enacted, That any person, not being a licensed Fhysician, or Surgeon, or Midwife, who shall practise, or attempt to practise, Physic, Surgery, or Midwifery, or who shall prescribe for or adunuister medicines or specifics to or for the sick, shall be liable for damages in cases of malpractice as if auch person were duly licensed.
IV. And be it enacted, That any person not being lieensed to practise Physic, Surgery, and Midwifery, who shall practise, or profess to practise, Physic, Surgery, or Midwifery, or shall preseribe medicines or specifics for the sick, and shall in any Court haviug cognizance therenf be convicted of groga ignorance, malpractice, or immoral conduct, shall be deemed guilty of a misdemeanor, and liable to a fine of not less then nor exceeding or to imprisonment in the Conury Gaol not less than months, nor exceeding months, or both, in the disctetion of the Court.
V. And be it enacted, That this Act shall apply only to Upier Canada. [For P. S., see page 130.]

## COLLEGE OF PHYSICIANS AND SURGEONS OF LOWER CANADA.

The semi-annual meeting of the Board of Governors was held at Montreal on the 13th ultimo, when the eleven gentlemen who had received the degree of M. D. at McGill College, on the 8 th, were duly sworn upon their diplomas, and received the license of the College. Ten gentlemen underwent examination for the College license, and obtained it, and five were rejected. Nine young gentlemen passed the preliminary examination, and were admitted to enter upon the study of medicine, and three were refused.
"Ignorance of Frencin and Engersh. - At the lete semi-anuual meeting of the Board of Governors of the Cullege of Physicians and Surgeons of Lower Canada, two young gentlemen were refused admission to the study of medicine. -the one, a Canadian, for ignorance of the English lauguage,-me other, of

English descent, for ignorance of the French langunge. The Act of Incorporation is explicit on this point. It states, 'that the qualitications to be required by the Board of Governors, from a person about to commence the study of medicine in this Province, shall be,-a gond moral character, and a competent knowledge of Lativ, History, Geography, Mathematics, and Natural Philosophy; and that from and after the end of the yeur one thousand eight hundrod and fifty, a general knowledge of the French and Euglish languages shall be indispensable.' We understand that the two young gentemen, who were thes unfortunate, passed otherwise very creditable eaminations. But the Board had no other alternative than to carry out the law; and we state these facts as a warning to students."
"Convocarios, Can ersity or MeGime. Cominge.-At the Convocation held on Thursday, May 8the the following genth nea were admitted to the degree of M. D. The valedictory address was delicred by G. W. Campbell, M. D., Lecturer on Surgery. With the names of the gentemen, we sabjoin their residences and the subjects of their Theses:
R. C. Weilbrenner, Boucherville, C. E. on Diffeult Labnur; Peter O. Carr, Simeoc, C.W., on Diseases of the Bones ; W. II. Hing ton, Muntreal, C. E., on Plethora; G. M. Mcaicking, Chippewa, e. W., on Puerperal Yever; S. T. Brooks, Sherbrooke, C. E., on Ilomoptysis ; Lubert Walker, Simcoe, C. W., on Intermittent Fever ; J. J. Blachloch:, Curnwall, C. W., on Epillpsy ; George LeClere, Montreal, C. E., on Apopitsy, Ouesime Brunean, Montreal, C. E., on Cancer: Charles E. Casgraia, River Ouclle, C. E., on Lepilepsy ; Juhh W. Mount, Mascouche, C. E., on Tetanus.-Brit. Amer.. Journal.

## TIIE ST. LAWRENCE SCHOOL OF MEDICINE, MONTREAL.

Anotuer Medical School has been established in Montreal under the above designation. We recognize among the lecturers the names of several who have been most favourdbly known as teachers for several years past, in that city. We need only allude to Dr. Arnoldi, on Midwifery; Dr. MeDonnell, on Surgery; and Dr. Horace Nelsom, on Anate 19 , to augur that this school will form a powerfal rival to the other two institutions already, we are infomed, in successful operation. The chairs of Practice of Medicine, Institutes of Medicine, with Comparative Anatumy and Zoology, and Materia-Medica and Pharmacy, are to be occupied by Drs. David, Gibb, and Fenwick, gentemen, according to report, thoroughly qualified for doing justice to the task which they have undertaken.

The fees for the lectures are to be the same as those at the University of MeGill College. We are happy to find that this is the case, because itindicates all alsence of upposition to, and petty jealousy against that institution, which would certainly have been inferred had the class fees at the new Institution been lower than those at the original selonol. He heartily wish our medical lrethran success in their zufertaking. We perceive that an act of incorporation is sought by them from the Legislature.

## SELECTED MATTER..

## MEDICINE.

## DR. GOLDING BIRD, ON THE SOLIDS OF URINE.

In a paper publinhed in the Medical Gazette two years ago, I pointed ouf, for the first time, the importance ef determining the amount of rcal urine passed by a patie't. By this term, real urine, I understand the solid elements of the urine, as distinct from the water in which they are dissolved. Water, although sn important, is not an essential element of the urine: it may be excreted by other emunctories; but not so the maiters dissolved therein: these seem, except in mere traces, to be only able to escape from the body at the outlet afforded by the kidneys, and indeed, from a structure of those glaths distinct from that which pours out the water. In the paper atiuded to, I pointed out the mode of determining this impar ant question at the bed-side, and hinted at the results which would probably be cobtained by it. From that monent I have never lost sight of the inquiry, and one among many of the results flowing trom it I now shall bring torward.
[After remarking upon the importance of first ascertaining the quantity of urine scereted during the tuenty-four hours, Dr. Bird proceeds to say:]

The characteristic function of the organs under consideration must undoubtedly be regarded as the excretion of highly nitrogenised matters derived either from the wear and tear of the animal tissues, or from inperfectly assimilated food. Therefore, to obtain a measure of the amount of integrity from this great deporatisg function, we must not only measure the urine, but calculate with tolerable atcuracy the amount of solid matters really existing in it. This can, of course, be effected by the evaporation of a given quantity to as dry an extract as can be obtained. The practical difficulties attending this process are familiar to every one who has cuer perfurmed the task; and, worcover, the time tquired for its performance would preclude its being had recourse to sufficiently frequent to be of any real service. I have elsewhere noticed the objections to this mode, as well as the advantages prestaned by the nore ratid and easy determanation of the quantity of solidg from the specitic gravity of the urine.

Although ready to admit that this mode of calculating the quantity of colids is not suserpatite of rigid aceuracy, still I mamain that the total error existing in a series of observations thus made, will be far less than if actual "rajoration of the uine was performed; and further, ibe large manber of observations capable of being thus made by cyery one, anidst the fatipues of large practice, render it of infinituly greater talue than a process whieh requires time and practical skill for its performance.

The following table presents us with a hode of recollecting the quantity of solids existing in uriae of different specific gravitie-, when the table is not at hrud for reference-a piece of chort memory of no small service in practice. Thus, if the specifie gravity of any specimen of urine be expressed in fout figures,
the two last will indicate the quantity of solids in a fuid ounce of the urine, within an error of little more than a grain, when the density does not exceed 1.030 ; above that number the error io a litthe greater. 'Po illustrate this, let us suppose we are called to a patient, the integrity of the depurating functions of whose kiduess we are andius to itant. The quantity of the urine exereted in twenty-four hours amounts, we will suppose, to three pints or sixty ounces, and the density of the maxed rpecimens passed in the time slluded to is 1028 ; now we merely have to mulniply the number of ounces of urine by the two last figures of the spectic gravity, to le arn the quantity of solids excretcd; or 60 multiplied by 20 equal to 1200 graims of solds. It the table nere at hand, the calculation would be more ngid, for we should then multiply $C 0$ by 2079 , instead of 20 ; the product, 1247 grains, shows that by the former mode an error of 47 grains has been commutted-an amount not kufficient to interfere matcrially with drawing our inductions by the bed-side and of course capable of immediate correction by referring to the table at cur lisure.

| Specific Gravity. | Weipht of 1 fluid oz.. | $\begin{aligned} & \text { Snlids in } \\ & \text { fi. } \end{aligned}$ | Specifir Gravis: | Weight of 1 hime or. | Solids in 15 j. - ars. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1010 | 4.41.3 | 10.203 | 10.5 | 118.1 | 26.119 |
| 1011 | 112.3 | 11.336 | 1026 | . 118.8 | 27.18S |
| 1012 | 414.7 | $12.37 \%$ | 1027 | 1.199.3 | 25.96 |
| 1013 | 4.43 .1 | 13.42! | 1025 | . 1.19 .7 | 29.338 |
| 1014 | .J. 43.6 | 1.1.47) | $10 \geq 9$ | 4.50 .1 | 30.113 |
| 1015 | 441.0 | 15.517 | 1030 | 450.6 | 31.196 |
| 1016 | 4.1 .5 | 10.570 | 1031 | . 151.0 | 32..7\% |
| 1017 | 4.4 .4 .9 | 17.622 | 1032 | 451.5 | 33.663 |
| 1018 | 415.3 | 18.671 | 10.35 | 1.51.9 | 35.716 |
| 1019 | 44.5 | 19.735 | 1031 | 1.5 .3 | 33.531 |
| 1020 | 4.46 .2 | 20.792 | 103.5 | -15.8 | 36.92\% |
| 1021 | 4.46 .6 | 21.852 | 10.36 | 4.53 .2 | 38.01 .1 |
| 1022 | 4.47 .1 | 22.915 | 1037 | 433.6 | 39.101 |
| 1023 | 417.5 | 23.981 | 1038 | 151.1 | - 10.206 |
| 1024 | 4.88 .0 | 25.051 | 1039) | 459.5 | . 11.300 |

From a large momber of obscrvations, it appeare that the average amoum of work perfurmed by the kidnegs in the adult, may be regarded as aff ating the secretion off fiom 600 to $\mathbf{7 0 0}$ grains of srilids in twenty-four hours. Alhhough certain peculiarities connected with muscular exprcise, regimen, and diet, as well as cetain idiosyncrasies of the pationt, may influence this, yet if we regard 650 as the arerage expression of the number of grains of effete matter cacreted in twenty-four hours by the hidneys, we shall not commit any very serious crror. In calenlations of this kind much latitude must be allowed, and it ought at least to be assumed that the kidneys may excrete fifty grains mote or less than the assumed average, without exceeding or falling shot of their proper duty.

I have in this as well as in the preceding leetures, repeatedly used the term depuration of the blootl, and have refencd to it as an expression of a great fact. Son:e few years ago it would have riquircd no little courage to have even used this term, for it would have been by many regarded as at least vedrlent of the sybils of the wast:-tub, among whom and the ir congevers there is always an aptness for referring all discases to the "blood being in a bad state," or simply "bad blood," ns all who have had much to do with dispensary practice can anply testify. Yet so much farour has a modified humeralism gained in the sigh of
the reffective physician, that not only will such expressions pass current, but hosts of affections are nuw regarded as strictly blood diseases, or conditions of cacuemia-another illustration of scarcely any popular opinion or prejudice existing without some admixture of truth. Admitting in general terms the fact that the kidneys do depurate the blood of from 600 to 700 grains of solid matter in the twenty-four hours, I am anxious to remind ny readers that not only does this occur in accordance nith fxed physiclogical laws, but that the proportion of solids excreted at particular parts of the day vary according to the amount of impure matters existing, and present in the blowd. I will select but one among many illustrations which I have at hated for this purpose. In a person in good health, the bladder was completely emptied, and the urine afterwards secreted was collected the next day at $8 \mathrm{Am}, 12$ and 5 r.s., and $11 \frac{1}{\frac{1}{2}}$ p.s.s., the total quantity voided being twenty-four ounces, but a very small quantity of fuid having been taken. The urine voided at 8 a.s., was evidently excreted from the blood independently of the influence of the bloud, and may be regarded as a measure of the quamity required to be removed for the depuration of the blood of the effete matters entering it from the tuetamorphosis of tissue; that passed between 8 and $5 \frac{1}{2}$ contained the addition of imperfectly assimilated matter deived from breakfast ; and that voided at $11 \frac{1}{2}$ contained the results of malassimilations of dinner. The table before you exhibits the result of the amalyses of these specimens:-

| When passed | 8 ג.m | 12 and 5 P.9. | 112 r.m. |
| :---: | :---: | :---: | :---: |
| Quantity .............................. | 亏virj ...... | 亏ıj........ | $\overline{\tilde{j}} \mathrm{viij}$. |
| Sp. Gr. ................................. | . 1016 ...... | 1020........ | 1030 |
| Uric acid | 8 grains. | 24 grains ... | 48 grains. |
| Iirea | 509 - | 11.16 ${ }^{\prime \prime}$ | 88.2 |
| Sreatin animal matter,and volatile salts | 62.46 " | 36.78 " | 123.72 " |
| Fixed salts. | $18.4 \times$ | 4i: $:=$ | 35.1 " |

We thus find that the blood alone yielded $114 \cdot 16$ grains in $8 \frac{2}{2}$ hours.

| $"$ | $"$ | plus breakfast | 80.34 | $"$ | in 9 |
| :--- | :--- | :---: | :---: | :--- | :--- |
| $"$ | $"$ | dinner | 216.72 | $"$ | in 62 |

In this example we have merely traced out the excretion of a definite amount of matter from the blood in healti, and when the processes are as little ${ }^{2 s}$ possible interfered with; this observation bearing, indeed, a close resemblance to the interesting experiments of Boussingaut with ducks. We, however, will now pass to the consideration of another illustration, in which the quantity of effete matter excreted is considerably increased from the leaven of disease. An illustration aiso of another fact, and a very important one, to which I have already nlluded-that a direct ratio exists in certain distases between the excretion of a definite portion of tffete matter from the blood and the amelioration of the patien's condition, such excretion being pro tanto critical.

I would press upon the practitioner the importance of directing his attention to diureties, not as mefely helping the pamping off of water, but as renal olteralizes-as remidies aiding the removal from the budy of injurious matters. 1 am aware that this indieation is often uninteniomilly fulfiled, whenever alkalies or ealts of vegetable acids are given, but still at the preseat time these and other analegnis remedies are not administered with the confidenee they deserve.

1 an anxions to anamunce to you a new fact, one which buds fair to be of great inportance to the treaturnt of disense, and ofie which I beheve has never Ie: been announced, aud which the examiation of the utine secreted under the
influence of remedies has led me to discover. It is, that we possess remediet which, when administered remarhably increase the metamorphosis of tissue, and enable us to produce at will the very depurative effets, which I have pointed out to you as resulting normally in the course of certain zymotic diseases. In taking a practical view of the so-called diuretic agents, it will now become necessary to divide these into two clasese : the one including those which simply increase the bulk of the urine; the other, those which act as renal alteratices, and aid the depuration of the blood.

To the former class belong all those agents which out of the body exert no chemical effect on animal matter, as all the vegetables diuretics-squill, copaiba, broom, juniper, guaiae, digitalis, se. All these, in the absence of any opposing cause connected with mechanical obstructions to the fre course of the circulation, will, it is well known, increase the discharge of fluid by the kidneys, aod become often valuable agents in enabling us to successfully treat dropsical accumulations. Hitherto no distinction has been drawn between these agena and those which exert a chemical influence on organic matter; and hence tro sets of agents exerting most different physiological effects were confounded. If the urine sccreted under the influence of the diuretics I have enumerated, be examined, the quantity of solids will never be found to much exceed the numal quantity; nay, sometimes the $y$ will even be in smaller quantity than in healh, in consequence of their in some iustances acting as irritants to the kidnegs, and by producing congestion, interferes with active secretion.

Remedies, then, which exert :uo chemical action on organic matter out of the body, appear to be incapable of angmenting the quanaty of soldds in the urioe, and hence are only of use in increasing the elmimation of water; they may, and do act as renal hydragogues, but not as renal depurants.

We have next to notice those remedies among the reputed diuretics which exert the infuence I have alluded to, and according to my own observation, increase the metamorphoses of tissue, and act as depurating agents : this class includes the alkelies, their carbonates and their salts, with such acids as in the animal econony are capable of beng converted into carbonic acid, including the acetates, tartrates, citrates of soda atod potass. These remedies all atet alike, they all actively stimulate the exereting function of the kiduess, and incrase the bulk of the urine; but they do mure, they actually increase the metanorphoses of tissue liy, in all probabitity, a direct chemical action on the elemens of worn-out and exhausted tissues, wo oher matter in the capillary latwratory of the body. It is well known that alhalies and their carbonates powerfully dissolet albumen out of the body, and even break it up into various secondary budies. thus, digested with an alkali albumen jields leucine, protid, and eryturo-proith bodies allied to gelatione, furme acid, and other compounds. In lihe mannt casein is broken up into tyrocin, leucinc, valerinuic actd, and other clemens From such change occurnag in the body, and in the living body, and in te: living organism teslf, we find the chancal diureties casily aff cting inportas: changes. This I have repeatedly confirmed by absolute experimuth. I will adduce but one, as it may be taken as an example of the rest. A young lady is now, and has been for some time under my care, laburriug, annugg other thingh under a condition of the orfice of the uretira which pre vents her passing wate withour the aid of a cahteter, so as to admit of a very accurate cxamianaina of th: quantity scercted in tuchty-four hemer:. This, when ho medicine uas adminir. tered, nas thus collected and esamined; and then three drachas of acetate $\alpha$
potass being adininistered in the course of twenty four hours, the urine secreted ia that tiae was collected and analysed. The results are shewn in this table:-


The results of these analyses shew, that, after deducting the excess in the mount of suluble salts arising from the convertion of axetate of potach into the carbonate, the sulids of the urine excreted under the influence of the clemical diuretic, exceed those recovered without its aid, by 190 grains: and we further learn, that although a large proportion of matter was metamorphosed into both uric and urea wha the remedy was given, still that the greatest increase was in that mixture of organic products set down as extractive, and consisting chiefly of rreatine, creatinime, uroxauthin, and matter rich in sulphur. In the example adduced, not only did the patient lose an excess of thirty ounces of water in twenty-four hours, but she wasted to the extent of one hundred and ninety grains more than if no remedy hed beea given, and to this extent had the blood been depurated of those elements winch yielded cas:est to the influence of alkaline ealts. In these lectures I have advanced mueh which temds to limit the influence of the vital force, and have endeavoured to show that it is not the active agent in cuntrulling metanarphic chatiges; but lat me not be supposed for a mument to deny its influence.

I regard life as an active agent in controlling organization, and iu exerting an influence opposed to chemical or destructive changes-in a word, as a consercatice asent. Now, admiting the elements of our frames resist chemical influme in the rato of their vitality, it would follow that such constiauents of our fibres as prearnt the greatest departure from healih, are less highly vitalizid and thus yiedd the easicst to the chemical force exerted by the alkaliae diuretics. Oa thes ace mat it is tair to presume that, when we cause an alkalne carbonate to cneulate hirongh the blood, it excris an infuence on the nascent elements of those matters less highly influenced by bife, allied to those produced out of the boly, and actuasly causes the matter to assume so soluble a form as to allow of its ready exreretion. This remarkable effect of the alkatine diureties, although now for the first time demonstrated by actual experiment, and the results of their chemical iufluence detected in the stream by which they are washed from the body, was mot overlouked by the observing physicians of other days.*

I would earnestly beg those who are now doing me the honour of listening to my remarks, tw eive a careful and steady trial to the depmeruing or chemicel diuretics, especially the salts of potass with vegetable acids, when they are called uphn to treat a chirnicic affiction in which the exciting cause or existing diseare, $d_{i j e n d s}$ upon the presence of some product of less vitality or imperfect orgmi-

[^4]zation. I fully believe that in many instances such matters will be often food to yield, whether they present themselves as albuminous deposits in gland furuacular discased cellular tissue, or incrustations on the skin, as in some of ibx squamous and tubercular cutancous diseasen. That they will succeed is increasing the waste of matter, is, from my observations, beyoud all doubt; thu the loweas vitalized matters nill yield to the solvent the readiest is most prebith and that an important and powerfuladdition 20 our aupply of therapeutic weapos is certain.

I will not dare to do more than state that it has occurred to me to ace the periodicity of ague broken through, the paroxysins lessened and made mart distinct, and the sallow, ditty aspect of malaria exchanged for the clearer iod brighter complexion of returning health, under the iufluence of the agenta in sdvocating. The disease has thus been rendered readily amerable to the subse. quent administration of the anti-periodic whose previous infuence it had resiged or, at least, not satisfactorily obeyed. Jaundice, connected with a large alcy. gish congested liver, has cerrainly better yielded to setting up a complementry function on the part of the kidneys by a diuretic alterant, than by grading the liver with remedies whose influence it refused to obey; and in more than single instance a strumously enlarged cervical gland has yielded to the persistat use of an analogous remedy even after resisting the iodide of potassium.

In corroboration, to some extent, of the viess I have announced, I would pr: ticularly draw attention to the extraordinary discovery made by Dr. Letheby, at announced by him last year at the Royal Medico-Chirurgical Sucity. Tis gentleman discovered that arsenious acid, when administered to an animal, cewal under the influence of an actire diuretic to develope its poisonous effects, beid rapidly carried off by the kidneys. The high and deserved reputation of D: Letheby investa this most unexpected and remarkable observation with authoiny and if corroborated by the experience of others, it must be regarded as one $d^{d}$ the most marrellous facts connected with therapeutical inguiries.

I would impress upon those who will now aet on my auggestion of emplarit alkaline acetates, tartrateg, or citrates, as remedica for the depuration of th blood, or for aiding the solution of lowly organized or cacoplastic deposis, 位 necessity of testing the work done by the kidneys, by collecting the urined twenty-four hours several times during the treatment; and then, by aid of t 俭 apecific gravity, and the table I have given, the amount of cxcreted solids iodir catiog so much metamorphosis of matter may be observed.

I have not alluded to the influence of benzoic and cinnamic acids as dep: rating remedies, because I bave in an early lecture alluded to their mode of actios I may remark, however, that their efficacy is by no means limited to the quanith of carbon, hydrogen, nitrogen, and oxygen, they separate in the form of hippuis acid, as first pointed out by Mr. Ure, but I find that they induce an incresed metamorphosig of tissue, and the quantity of matters included under the sage term of extractive, remarkably increases during the administration of beosix acid. I may now be permitted to expeess the statements I aduanced in tix lecture in the form of five propositions :-
A. That a knowledge of the amount of solids cecaping from the bodyinix urime will, indrpendently even of their chemical composition, often enable ax to detect a deficient function of the kidneys, although the bulk of the secreis may not be materinlly affected. This can only be ascertained by the pian mat proposed.


#### Abstract

B. That whilst specific diuretics, as a rule, only increase the exhalation of water from the reual capilaries, the alkaline salts, (chemical or alderatioe diuretics, ) on the other hand, when coming in contact, in the capillary circulation, with the nacent elements of tissues or parts of low vitality, remarkably accelerate their metamorphosis and subsequent solution in the blood. C. That in certain diseases attended by cacoplastic or even saline deposita, before despairing of all aid from medicine, it would be well to affect their removal by the agents in question. 1). That in the treatment of disesse, this question ought often to be entertuined, whether ailment is not excited, kept up, or aggravated, by an unhealthy condition of the blood, either by the actual existence of a materies morbi, or the presence of the results of mal-assimilation. E. That when one or other indications be made ous, great benefit may be ofiten derived by aiding the metamorphosis and solution of the morbid elements by the chemical diuretica ( $B$ ), not administered with the view of separating mere water, but of aiding the execretion of solid elements of the urine.


## THF RELATION OF THE URINE TO THE FOOD AND THE SYSTEM.

 By Bence Jones, F.R.S.Any organ that is used must be repaired, and the substance that has been used must be removed. Take the muscles for example ; the muscles consist of rater, salts, non-nitrogenous fat, and a highly compcund arrangement of mbon, hydrogen, nitrogen, oxygen, sulphur, and phosphorus. Carbonic acid, mmonia, water, sulphates, and phosphates are the last products of muscular sction, and of the action of oxygen on the muscles. The intervening producte, probably, are innumerable; as kreatin, kreatinine, uric acid, urea, choleic acid. Some of the products are thrown out of the body by the lungs, others by the tidneys. If the removal of some of these producte by the lungs is stopped, the circulation through the lungs ceases in two minutes; the functions of the heart and brain are arrested, and from the mechanical stoppage in the lungs, death causes. If their removal by the kidneys is stopped, in two days the patient is poisoned; the nerves and muscles are affected by the poison, and chemical death tasuen. "If the beef-steaks (the muscles of an ox) are given to one who hat then strong exercise, and is in perfect health, they are dissolved, and pascinto the blood, and their chief use is to repair the nuscles and perves, not to form wic acid and urea, the constituents of the urine. The waste of the museles, and other organs, passes off in the urine, whilst the food nourishes the wating organs. Such I conceive to be the slearest ideas I can give you of the relation of the urine to the system, and to the food; and, theoretically, I consider this is the true healthy relation, and perhaps, in a state of full bodily labour, when enough food, and no more than enough, is taken, this may be the only relation: but provision has been made for too little labour and for too much food. If too mrch food is constantly taken, and too little exercise, plethora and hemorrbage must take place, if some escape for the exceess of sood be not provided. You bre seen that the phosphates, urates, and sulphates are generally increased in the urine after food has been taken. If more food is taken than is required for the wants of the syatem, the excess is thrown out by the same organs that thore the waste of the muscles and other structuren. If even excess of water
alone is taken, the excess is thrown out partly, at least, hy endoamntic laws not get clearly apphed. Llow the quantity of substances to be thrown out is determined, I to not yet distinetly sec."

The great agent in affecting these changes is oxygen. Of this thete are many familhar proofs, as the prodaction of cartonate of potash in the urine after the citrate of potash has been taken. "Very lately Pruft ssor II. Rose, of Bellio (' Phil. Mag.,' July, 1849) has made some most antercsting (apcriments on the ithorganic constutuents of organic beuties, chicfly as regards their do gree of oxidation. He divedes the degrees of oxdation into fully a xidiad, purtially urine The food, if it consists of wheat and other grain, contains organic substanees, the inorganic conatituents of which exist partly in an oxidized, fartly in an unnvidized state. The flesh is a partially oxidized body; but the guantity of unoxidized matter in the blood is larger than in the flest, and the quantity of frilly rsidized matter is smaller in the blood than in the flesh. The urive is a perfeet and fully oxidized substance. The inorganic constitucnts of the urine aze as highly oxidized as it is possible for them to be."—Lomion Juarnal of Med. Science.

## pathology of pitilsis-on elastic fibres fotid in the secta of rirmisis.

## By Professor Shroder Lion der Kolk.

The learned Girecht Prufessor, so well huown for his resrarches into the structure of the lungs, declares that the microseupe offers an in rallible meass of detecting the existence of cavities, by exhibitig in the op ta the presence of the elastic filures which surround the cells of the lungs; and this the more certainly, as the carity is in an early stage of formation, consrquenty, at the very period when such a sign, if to be depended upon, is mast wanted. Ther can be examined under a magnifying power of two hundred. They are of an arched form, very thin, with sharp borders, and are sometimes covered with fat. which is removable by ether. They must not be mistaken for a species of corferva, which very rapidly appears in the expectoration, especially when this contains fat, but which is recognizable by its ramifications terminating in tuntfied cells.-Mrit. \& For.Med. Chir. Review, Jan'y, 1851.

## SURGERY.

## DR. CIEVERS, ON CAUSES OF DEATII AFTER INTRIES.

It is alnost impossible to have been long in the habit of paying close attention to the pathological cxatainations in one of our large metropolitas hospitalg, without observing that a very great proportion of those who die frow the secondary effects of mechanical injuries have been the subjects of marked, and often very acute, form of reual, hepatic, or splenetic disease or of the ahole of these combined. For the purpose of confirming the observatious which 1 have made at Guy's Hospital for several years past, I carefully examined the accounts of all the cases where death occurred from the secondary effects of operations and mechanical injuries of every deseription, which have been enterd in the post-mortem Register of the Musemm curing the last fifteen years,* covprisigg the whole of the cases in which examination of the bodies of patients so

[^5]"dying could be procured during that period. The results are, I think, extremely interesting, and can scarcely fuil to be regarded as of very great practical importance.

One hunared and fifty-three cases of the kind were obtained from that source. Many of the suljects of these reports had undergone sevete operations, or suffered from extensive accidental injuries; others had been the subjects of wounds and contusions of an apparently very trivial kind: still, the internal inflamations which deutroyed life in most of the later cases were generally as severe as those which proved fatal in the former instances, and frequently more so. In these 153 cascs death took place from-

Inftmmation from secreting surfaces or internal organs (exeluding the kidneys, liver, and spleen) in 134 cases
In the remaining 19, the patients died from other causes; such as tetants, sloughing, hemorrhage, supputation, gangrene, erysipelas, diarrhcea, and the total deficency of reparative action in the wound: and ita one of these cases the precise cause of death couid not be discovered......... 19
"
153 "
In but a small proportion of the above 134 cases (in which the injuries or operations were followed by the oceurrence of fatal internal lesions) were the inf emontory affections found to be contived to a single organ or secreting surface; but it was generally moticed that several important parts, and these often at a considerable distance from each other and from the seat of the primary injury, had become equally involved.*

The following is a list of the various recent inflammatory lesions which were found to have occurred in the above 134 cases $\dagger$ :-

Acute divease of the subatance of the lungs, appearing in the
form of iaflumatory odema, red or grey hepatization, alscess, or gangrene, was noticed in

47 cases
Bronchitis alone ..... ........ ................ ..................... 2 "
Pleurilis ..................... ............. ......................... 35 "
Laryngitis and diptheritis ................... ....................... $2 ~ " ~$

[^6]Meningitis ..... 27 cases.
Inflammation, softening or absceas of the brain ..... 9 "
Pericarditis ..... 14 "
Peritonitis ..... "
Arteritis and aortitis. ..... "
Phlebitis ..... "
Inflammation of various portions of the intestinal canal (excluding cases of bernia) ..... 9 "
Suppuration in the substance of the Psox muscles ..... 2 "
Acute purulent synovitis ..... "
Inflammation of the tunica vaginalis ..... "
Cystitis ..... ${ }^{4}$
With regard to the etate of the kidneys, liver, and spleen, I found thatThe kidneys were observed to be in a atate of marked disease,cither presenting remarkahle congestion, softening, mot-tling, or the granular or cystiform alterations in72 "
The appearances of the kidness were not mentioned (usually from the autopsy having teen only partial) in ..... 44 ..... "
These organs were stated to be without any apparent disease in ..... 26
The condition of the kidneys was doubtful in ..... 11 "
Of the above case, in which the kidneys were either not examined, foundhealthy, or considered in a doubiful state, there was a marked diseaso of theliver or spleen, or of both these organs, in 21 cases-giving a total of 93 cases,in which one or more of these important organs was found in a state of lesion.*
It was cbserved, that of the 134 cases in which the patients died of internal inflammations, there was also superadded marked disease of the kidneys, liver, or spleen, or of all these organs combined, in $90 \dagger$
In a rather large proportion of these cases, the disease of the liver, spleen, and kidneys had evidently existed for a very considerable lime previous to the patients receiving the wounds or injuries which became the apparent primary causes of death : but in very many (and this was especially observable in the renal cases) the changes were evidently of so recent a nature, as to render it probable that almost immediately after the operations or accidents, either viscersl disease had been excited from a latent to an active condition, or that a state of acute congestion had suddenly been established in organs which had hitherto been suffering merely from chronic degeneration.
One of my principal objects in submitting these remarks to the profession has been, to call the attention of surgeons to the very great frequency of disean of the three last-mentioned viscera, and of the kidneys more especially, in those who perish from the secondary effects of operations and injuries. I have long,

[^7]been perfectly convinced, not only that the greater proportion of deaths after wound, in our metropolitan hospitale, result from the effects of disease in these organs, called into activity by the accidents which the patients have undergone, but also, that any operation or wound, however trifing, will be extremely liable to prove fatal in persons whose kidneys are in any degree suffering frow acute congestion, or from any condition at all approaching to that state : and although my data are less complete upon this point, I believe that the same observation will hold good with regard to those who are the subjects of active, splentetic, or bepatic disease.

My attention was first drawn to the above fact by observing that the morbid claracter presented by the serous membranes and other structures, together with the appearances of the effused fluids \&c., in those who died of acute internal inflammatory attacks consequent upon operations or injuries, (especially where the primary wounds were at a distance from the parts afterwards iuvolved,) atmort invariation sore a precise resemblance to those which so characteristically distinguish the inflammatory affections of the same parts which ars known to result fron Bright's disease of the kidney;-and, where this has been the case, I have seldom failed to discover that there has existed, at the time of the patient's death, some form of disease of the kidneys sufficiently intense to have interfered greatly with the proper action of those glands, and thereby to have been capable of setting up a disposition to the occurrence of fatal mischief in the serous tuembranes or in other important structures.*

I would be departing too much from the practical intention of these remarks to enter into an extended investigation with regard to the precise manner in which 3 mound of some distant part of the body-by producirg an increase of diseased action in kidneys already suffering from a great predisposition to vascuiar lesion -is eventually followed by inflammatory affections of various serous, mucous, and other structures. It may probably be sufficient to state, that the occurrence of such a train of actione can often be traced with the utmost precision; but there can be no doube, that the state of general vascular excitement which succeeds most operations and accidents is extremely liable (by giving rise to additional congestion in kidneys already in a diseased or failing condition) so completely to interfere with their powers of secretion, as to induce the destructive effects which iavariably result from unrelieved suppression of urine, and the consequent sceunulation of urea in the blood;-that is to say, where the recretion is wdenly and completely checked, edema of the lungs and cerebral effusionwhere it is more slowly and partially suppressed, serous iuflammations and effuviona, and other extensive organic lesions.

There can he little doubt that structural diseases of the liver and spleen ue also lisble to become agravated by the vascular excitement consequent upon wounds or other injuries to the surface of the body, and (in consequence of this futher derangement) to give rise to morbid effusions in other parts. The influence which organic diseases of the liver has in producing unhealthy actions in utious structures, the serous membranes more especially, has long been recogdized. Whether structural disorder of the spleen esn by itself, effect similar injurious results, is a point less easy to decide : but it is certain, that some severe

[^8]forma af local infammation are ahonst invariably attended by remarkable diseage of this organ: anong these may be mentioned asthenic anthrax, and erysiphas.*

I have already, in an ealy part 0 ' these remarks, given a sketch of the class of passons who appear most liable to s'nk under extensive internal inflammatory affections in consequence of slight acsidental inguries-and operetions, in themselves, of a safe and ordinary kind. It is merely necessary to repeat, that, athough in a great many instancess in the prime of life, and to all appearance of robust and vigorous conatitutions, their vital powers have generally been undermined by varions kinds of intemperanceand neglect, and the priacipal abdominal viscera have loag been subject to sone of the derangements upon which I have already dwelt. In this way, the ir powers of reparation after injury have become almost entirely destroyed, and they are hereby rendered wholly unfit to endure the trying effects wheh any operation or violence necessarily produces in the system.

With regard to inflammatory affertions which arise in various parts, as the scquelx of comparatively trivial and supeticial woundr, in these unheallhy subjeets, it may be stated, that, in their mode of attack, in their symptoms, and in the pecoliar characters of the murbid appearanes which are disenverable after death, they appear, for the most mart, to be pirfectly identical with those fatal inflammations of various structures which so frequenty attack patients who are known to be suffering from certain forms of Minbus linight; and Ifel assured that a large proportoon of the tramatic eaves differ from the above class of idiopathie ones, solely ia the difference of the immediately-exciting cause which brings them inso play.

I must therefore repeat, that it is probable neither to the severity of the operation or injury, nor in the irritation which it creates in the nervons system; to the offects of bad ventillation, or of long confacment nor, in fact, to the action of any other general cause, that we are principally to ascribe the predis. position of this cides of patients to the fatal lesions under consideraion; but rather to influences of a diseased state of the ir abduminal organs, to which their previous labits of life have long been subjecting them. It is highly probatle that in most of the indsidsals who thus perish, even if they had never become the subject of any wound or injury, sone etior vicissitude would, by bringing the renal hepatic mischief into actave operation, have equally determined te occurrence of fatal celebral, thoracic, or :bblominal inflavatiors. $\dagger$

[^9]
## TIIERAPEUTICS.

## DIFFUSE OPACITY OF TIIE CORNEA RESCLTING FRON CORNEITIS TREATED BY STMLLANTS. <br> By Dr. Jucobs.

From the variety of stimulants used from time immemorial to remove opacities of the cornen, and the nomber of them extolled as infallible, it may be presumed that any stimulant will answer the parpose. Solutions of nitrate of silver, sulphate of copper, sulphate of zine, or the combination called lapis divinus, will perhapa answer. I we a solution of iodide of protassium, ten grains to the one ounce of water; or, as a substitute for anmal bile, said to be effectual, touch the surface with the camel-hair pencil previously dipped in water and brushed two or three times on soaj. The funes of prossic acid, so much vaunted as $n$ quack remedy, I have not used, being dangerons and troublesome. If this nostrum has any infuence at all, it is as ang other stimulant.-Brit. § For. Mred. Chirurg. Reviete.

In 1846 , the late Dr. King of Bubadoes introduced the iodide of potassium into his hoapital practice, and ever since that period it has been used most successfully both in the General Huspital, Barbadoes, and in the General Dispensary, l'oronto.

INDIAN IIFAP AS AN OAYTONIC.<br>By Dr. Simpoon, Edinbursh.

Dr. Simpson stated, that, in the early part of the ninter session, he had given Indian hemp (Camibis Indica) in several eases of tedions labour, with the riew of ascertaining if it poscessed any oxytonic effect (like ergot of ree) in increasing and exciting parturient action of the uterus. Ile had been induced to try the effects, if any, of Indian hemp during labour, in consequence of Dr. Churchill stating that it possessed pousers similar to those of ergot of rye in arresting hemorrhage, when dependant upon eongested states of the impregnated uterus. In the few cases of labour in which it was tried, parturient action seemed to be very markedly and directly increased after the exhibition of the hemp; but far more extensive and careful experiments would be required, before a definite opinion could be arrived at relative to its possession of oxytonic powers, and their amount.-Monthly Journal.

## APPLICATION OF COLD AS AN ANTATHETIC AGENT IN ORERITIONS FOR REMONNG WALTY EACRESEXCES.

By, Thomas W'. Nunn, Esq., Surgeon to the liestern Dispensary.

'Mr. 'Sunn says, that having taken advantage of the hint given by Dr. Arnotr, . he has been so eatisfied with the reselt, that he considers it due to that gentleman to publish the following ease. It occurred in a young married woman, who applied to the dispensary for the purpose of being relieved of a large accumulation of warty grow hes about the pudenda.]

The excrescences depended from the ohnle of the labia minora, and surrounded the clitoris so completely, that it was difficult to distinguish the meatuo urinarius. Some of them were of considerable size-as large as a common figothers were oblong, and were attached by a narrow pelicle. A great many small ones surrounded the orifice of the vagina. She also suffered from leucorrhcal discharge. No other aymptons of importance appeared. The excrescences were the cause of a great deal of suffering and inconsenience in a varicty of ways.

Assisted by my friend Mr. Weston, I applied little wedge-shaped pieces of ice to the necks of the larger growths, till they became perfectly blanched and cold, and with a single stroke of a curved probe-pointed bistoury, removed several of the larger ones successively, without causing the patient any but olight paia.

I afterwards removed a very small growth without first applying ice. The result was, as might have been anticipated,- The patient found the pain insupportable.

Ifound it necessary to introduce a bougie into the urethra in order to indicate the position of the esternal orifice of that camal, so buried was it amongut the vegetations.

A great adrantage obtained by the use of the ice. was the absence of hemorrhage ; it being hardly requisite to aptly a spouge during the operation. I was thereby enabled to proceed without hindrance, and a clear view was obtained of the exact extent of each sweep of the bistoury.

No resction in the least degree excessive followed the proceeding, the progreas of the case being satisfactory.

It appears to me, that by the above simple plan we may often save our patients considerable suffering, without exposing them to the least extra risk, 一 which cannot be said of chloroform. It has been proved, on the one hand, ores and over again, that if anmsthesia be not comprexe, there is the contingency of undesirable phenomina; while, on the other haud, if the anresthesia be perfect, a greater chance of accident is incurred.

## POSTSCRIXT.

Dr. Turguand's letter from Woodstock, is so satisfactory, that we regret it was not received sooner. Twelre out of the fifteen licensed practitioners of the county of Oxford, have expressed their decided concurrence in the proposed Bill of Incorporation. The meetug made also some important sugbestiens whinh shall be submitted to the proper quarter.

The Profession must act promply, and for itself. The Lawyers in Farliameat constituting one-half the representation, thank nothng of consuming public time and money in therr own defence, as witness the wrangling on Friday aught about the employment of Queen's Counsel.

We beg to offer Dr. Clarke our thanks for the tabular return of the General Hospital, annexed; and take the liberty of suggesting to him the importance of a monthly abstract, with a few remarks on the peculiar type of prevailing diseases. We shall aiways most readily give insertion to information derived from our public institutions.

Statrmbar or Patirnts admitted inte, and discharged from, the Toronto Hospital, from the 1st Mfay, 1848, to 1st May, 1851.

| Remaining in Hospital 1st May, 1848. | ADMISSIONS: |  |  | Total. |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { From May } \\ & 1848, \text { to } \\ & 1 \mathrm{st}, 1849 \end{aligned}$ | $\begin{aligned} & \text { may May } \\ & 49, \text { to } \\ & t, 1850 \end{aligned}$ | From Ma 1856, to 1st, 185 |  |
| 37 | 691 | 811 | 898 | 2437 |
| DIscilarged: |  |  |  |  |
| Cured.......................... | 569 | 707 | 745 | 2021 |
| helieved... <br> By request. | 9 | 17 | 6 | 32 |
|  |  |  | 36 | 36 |
| Innproper objects. | 1 | 6 |  | 7 |
|  | 17 | 8 | 6 | 31 |
| Died | 82 | 85 | 80 | 247 |
|  | 678 | 823 | 873 | 2374 |

Remaining in honpital 1st May, 1848 ................................ 37
Admission from lat May, 1848, to iat May, 1851................... 2400
Total ... ........................ 2437
Remaining in hospital 1st May, 1851 .. ............................... 63
Total number discharged from 1st May, 1848, to lst May, 18512374
migth-piace of patients:
England ..................................................................................... 184
Ireland.......................................... .. ..................................... 1989
Scotland .............................................................................. 70
Wales ...................................... ................................................. 4
Canada....................................................................................... 97

Germany .............................................................................................................................. 1


















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[^0]:    - "When the incisors of the upper jaw come out irregularly, particularly when
    " they are behind their temporary antecedents, these must be removed to make room,
    "and even when the deviation extends only to the central incisors, the four temporaries "require removal."-Goddurd on the Teeth.

[^1]:    * Allowing chaldren to bite hard substates before the complation of the secod dentison, is equally murious to the future appearasee and darability of the perinenes teeth, in so much that if the fibrous cord is not dissevered, it becomes compressed us deformed, whech must wbstruct the secretions of the enamel, and thas either deprin the teeth of that substance altogether, or cause it to be depusited irregularly, formi' what is usually called lonejcomb teeth.

[^2]:    - This is the way the two enspidati make their appearance in their regular progress to their proper destination.

[^3]:    - In England the coroner is also empowered to unquire mic the ongin or catase oi fires occurring in their distrets, a power wheh at would be well io have enersecd in the comntry. Mr. Wakely has exeresed it in London.-Ev.

[^4]:    - In lhe nevt mumber of the Journal we shah reter to Mr. Simon's observations Sut this : :Hportunt suljact.-LD.

[^5]:    *The period wathon wheh these occurred extended from the 19th of May, 1827 . to the 19 h of May, 18.12.

[^6]:    - It may here be inquired, were not the inflammatary attacks. in some of these cases, the necessary results of the injuries whech the patients had receired! In a certain proportoon, this may have been the case. In about hirteen of the above instanees. the nature of the injuries was surh. that it was evedent that the patients conld have no fair chance of teconely: in the whole of the others it appeared that there was nothong to remter the patinn's restoration impossible, had not sevele imtammation or some other unfavourable change intervened. It is not usually to be supposed, in cases of simple fracture ot the scull. fracture of the rubs. and operations for herma. that arachnitis gentral plemioy, and peritomisis, will necessarily follow: thece are reoults which must commanly be weforred to some error on the pitients' consthaton. Aram, in geving cases of laceration of the brain, and wome of an imtestine, the infuries may in themselves be necessarily mortal; but where, ather the pathent's death, pmeumona is found to have been set up in the trist case, and pleurisy in the second, we have just grounds forinquirung whe ther - He prev nous tault m the constitution has not caused hese lesions to be superadded to those which wonld naturally result ds the immediate lucal effects of the injurues.
    f It ni', be observed. that this Table merely denntes the number of tumes particular indaumations were found to have occurred, and have no reference to the total number of cases. Thus phlebtis is stated to have appeared in three cases, and arteritis in tour; but there were, altogether, ouly six cases of vascular disease; in three of which there Wharteritis, in two phlebits, and in one arteritis and phlebiths combine.l.

[^7]:    From the character of the symptoms and the nature of the milammatory lesion of which many of the pattents died, I am convmced that renal diseases would have keea discovered in a considerable number of those cases in which the state of the kidners was not olkerved, had those organs been exammed after death.
    $\dagger$ Wh le in taking notes of the above cases, from the lost-mortem Registers, I met with the tollowing observation by Dr. Hodgkin, appended to the case of a man wha sunk of hyhotomy, about fourteen years ago, and in whom motthing of the kidneys was discovered after death; -. This condition of the kidneys was also noticed in anothet pastan: who died after the operation of hthotomy, and in others who have sunk attert operations and injuries."

[^8]:    Dr. Bright has remarked, that "where the secretion of the kudneys is greati; deanged, the serous membranes seem always ready to become the seat of inflammatory ution."

[^9]:    * It often, but by no means tmariahy appears tha fital routis are promoted by
    
    
    
     certain that many fatal cases of thoracte intammatanns, consequent iuma munes, occur, in whach there is no satistactorg evideace ot the pathent hawngsoffered nom cold
    $\dagger$ It is not intended to be argued that operations or mijurics will be certains desmactue to ite, m crery maduduit sutferms fom remal or othen visceral diseases:in is merely neresury to shew how shgit a foletice will oflen ghe rese to fatal mis chief in eases of this descrption. I cond ctie other cates, in which small punctures the passurg of a catieter, the wound made in bleding, blows upon theshy parts of the bohly, the extractuon of a tooth, were shorty tollowed by tatal results, in persoes
    
     ycars of age, had sloughang of the wrum und check, after the extracton of the molait
    
     were foum eularyed and modurated, ther tumes bemge closely adherent to the cortioz sarface. The liter was highly congested.

