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## THE

# UPPER CANADA JOURNAI 

OF



FEBRUARY, 1852.

## original communications.

Art. XLVI.-Case of Aneurism of the Arteria Innominata. By Vesey A. Brown, M.R.C.S., Assistant-Surgeon Royal Welsh Fusileers.
The subject of the following case first came under my observation in the beginning of last September. He was a bricklayer by trade, aged thirty-three, a married man and father of several children, of habitual good health. He stated that his habits were generally temperate, and that he did not overwork himself. Four or five years ago he accidentally fell from a height on a rafter, on his right axilla. Ever since he had been in indifferent health. The first ailment he had to complain of was pain in the right shoulder, shooting up the same side of neck. This was followed by derangement of the digestive organs. For both of these symptoms he was subjected to a variety of treatment, but without any permanent benefit. About a year ago, his attention was drawn by a sensation of tightness and weight which he experienced in the upper portion of the chest, under the right clavicle, accompanied by slight palpitation of the heart, to the real seat of his disease. What he most complained of was excessive pain in the shoulder-joint, shooting up the right side and back of neek into the occipital region, and down along the arm into the fingers. He also complained of pain, dyspepsia, restlessness, want of appetite, constipation of the bowels, and other symptoms of derangement of the stomach.

He came up to the hospital in order to ask advice as to the propriety of putting himself under the care of Mr. Mott, of New

York, for the purpose of undergoing the operation of the ligature of the artera imominata, which was deemed fearible by some of his medical attendants. He seemed to be perfectly aware of the nature of his discase, and its several modes of cure, and expressed himself as willing to undergo any operation for its removal.

On a physical examination of the chest, a very apparent fullness, with corresponding dullness, was perceptible, extending from bencath the right sterno-elavienlar articnlation to helow the second rib and towards the mesial line. The superficial veins in this region, and on the corresponding side of neck and arm, were torthous, enlarged, and congested. The face, especially on the right side, was pufied out. 'The action of the heart was matural, its impulse below the precordial region was feeble, hat a stroner jarring impulse was communicated to the ear when the stethoserpe was applied to the upper part of stormum, where a distinet loruit de souffec was audible, extending from the arch of the aorta to both carotids. This was synchronous with both sounds of the heart; it conld also be heard in the portion of chest hetween the post. supr, angle of scapula and the spinal column. There was a marked difference between the pulses in both wrists,-that in the left it could scarcely be felt. The respiratory murmur in both luress, -both anteriorly and posteriorly, was natural. The peculiar purring thrill of aneurism was very plain, on placing the hand over the right sterno-clavicular articulation, Carefully considering the signs and symptoms of the case, the diagnosis lay between an aneurismal swelling of the arch of aorta or arteria imominata,-the preference was $g$ ven to the latter; consequently 1 strongly endeavoured to dissuade him from his purpose, and recommended him occasional small bleedings, absolute rest, low diet, and small doses of hydrocyanic acid, and digitalis in camphor mixture, with acetate of morphise at night. I lost sight ,f him until the middle of November, when he sent for me. A considrable change had in the mean time taken place in the features of the case. The previous symptoms all existed, but in an aggravated form; and in addition there was evident fulness perceptihle in the antr. infr. triangle of the rghtside of the neck, immediately above the stomo-chavicular articulation, which was bulyingr forwaid. On pressing downwards and hackwards with the points of two fingers, the apex of a romed solid tumour was distinctly felt, bentr still more apparent when compared with the corresponding situation on the opposite side ; it aloo gave him great pain. The varicose condition of the cervical vein was also much increased; the trachal respiration and deglatition were daily becoming more distressimg; he was walle to lie down at night and could not obtain any rest withont the aid of the strongest opiates. He informed me that l.e had grone to New York, but that Ar. Mott had given him but little encouragement. When returning be had been very sick on buard one of the steamers on Lake Erie
which made him much worse. IIe continued in this state until the middle of December, when the tumour began visibly to iaerease,-apparently upuarls, backward, and inward,--pressing on the oe ophagres and trachea; the impule in it was very strong, bat, curious to say, the brait hat totally disappeared from its foumer simition. The symatom chicily complained of was the most exsuenting pain, shouting fom the shabler up the neck to the bich of the heal, ant down the an into the hand and fingers, which were ann nb, and required emotant rubbinr. He continued nueh $i_{1}$ this state for three weeks, when all his sufferings became more distressing; the trachea wa, pa,hed at least an inch from the mesial line to the left side; the tumbur abo was daily increasing, its shape was quite defined, and could be seen extending along the clavicle into the post. intr. triansle of the neek; the parietes of the sac appeared to be very thin; his fare was of a yellowish pale colour, and hagrard looking; the right hand was numb and powerless, wrist swollen, and pulse seareely p.reeptible at the left wrist. On the 2 th of Junary, at three weluck, pim., while sitting up in bed, le suldenly called for his wife, as he felt he was dying; but before she eund reach his bedvide, he had breathed his last. All the morning he said that he felt he was dying. Ine had no hamorrhage from either mouth or nose. Ilis wife satid that the moment he died ail sirns of the tumour suldenly disappeared.

Permission being riven, a post-murtem examination was made next morning, at twelve ocelock, in the presence of Dis. Smith 23 rd R.W. Fusileers, ILssard, \{. 1. ; and Dis. Phillips and Guing, of London.

When the integrament was diseected of buth sides of neek and chest, the outline of the tumsur immediately became apparent. The platyama, sterao-mastoid, omo-hy vis, amd the other thyroid museles, over the tumour, were pale and flattened, and formed part of its outer-wall. The parietes of the sac were very thin, and in one prot, near its apex, seemed disposed to uleerate. The sace was empty; it ocenpied the whole of the antr. and postr. infr. triangles of the riyht side, and exten led over the thyruid budy to the mestal line. When the sternun, with buth clavicles, were carefully raised, it was seen to extend beneath the right sterne-clavicular articulation, which formed part of its anterior wall, and was firmly adherent to it, as also the first bone of stermum, the posterior surface of which was partly absorbed. The poach athered in part aloo to the sternal end of fiss rib; and cluse to this adhesion there was a small iregular aperture, about thre or fuar inches in dianeter, by which the interior of the ponch conmmaicated with the risht pleural arity. This, dubtless, hat Fea the chamel of the copious henorrhage into the pleural cavity. The posterior third of that avity contained an immense cousulum of bhool, and the remainder Wds completely filled with serum, which trichled out the moment the sternum was raised, Just above the adhesion to the rib, the
pouch adhered to the substance of the lung, over a space about an inch square, and here the parietes of the artery seemed wholly wanting. Every other portion of the lung was perfectly healthy. It was pushed over to left side, and overlapped the pericardium. The tumour terminated at the commencement of the arteria innominata, which evidently was the first seat of the disease. The ascending portion of the arch of the aorta was much dilated, and studded with ossific deposit. This was more perceptible in its transverse portion. None could be discovered at the valves of heart, which was of the natural size.

The tumour lay on the right common carotid, jugular vein, and brachial plexus, and was commencing to uleerate the bodies of fifth and sixth cervical vertibre. The calibre of the left carotid and subelavian arteries was much diminished. Around the origin of the latter vessel there was a good deal of ossific deposit, which possibly may account for the difficulty of feeling the left pulse. All the other viscera in the body were healthy.

Art. XL'II.—Red Discharge from the Vagina of an Infant only ten days Old.-By S. J. Stratrond, M.R.C.S. London.
Tue following anomalous and very unusual case may perhaps find a corner for insertion in the Journal. It is curious in itself, and not uninstructive to the medical practitioner, impressing upon him the necessity of carefully watching the absurd, and not often dangerous interference of the nurse in the management of very young infants.

During the month of August last, I was called to a lady who was in labour with her first elild. The pains were rather severe. Upon examination, I found the uterus but slightly descended into the pelvis; the os uteri was firm and but very partially dilated. After the lapse of three hours, the uterus had gradually descended; the os uteri was found considerably dilated, and the membranes having ruptured, the feet were distinguished as having arrived low down in the vagina. The pains soon foreed the body also through the os uteri, but the arms and head were temporarily arrested by the neek of the womb. The arms were brought down by the hand, and having placed the head in its proper position, and introduced the finger into the mouth, it required very considerable foree and some time, to accomplish the passage of the head through the unyielding os uteri. During this time, the lungs of the child were evidently inflated with air, and a faint cry was distinctly audible. After considerable exertion, the head at last passed into the vagina, and the infant was soon after born.

The lady suffered no more than ordinary inconveninence from her delivery, and was gradually restored to perfect convalescence.

The infant, a female, also seemed to do well until the fouth or fifth day, when the nurse complained that the breasts were greatly swelled, and as she said had milk in them. She had tried to draw the breasts, and to disperse the swelling had used considerable friction; and when she called my attention to the breasts they were red, hard, considerably swelled, and evidently intamed. This state continued for several dajs. The ehild had some gentle medicines exhibited, and tepid evaporating lotions were applied; but nevertheless the breasts put on all appearances, that they would suppurate : from a continuance of the neans above mentioned, however, by degrees the hardness subsided, and the swelling gradually disappeared. A few days after the breasts had become hard and swelled, and had been unwarrantably irritated by the nurse in endeavouring to draw the milk, a discharge of blood from the vagina oceurred. It was perfectly red, and I should think amounted to nearly a tea-spooful in the twenty-four hours. At first it was fancied to proceed from the bowels, but upon careful examination its true source was clearly proved. It seemed to be unaccompanied by the least soreness or irritation, and continued for five or six days, and then gradually subsided, as the breasts assumed their normal condition.

The alove unusual occurrence goes to prove the great sympathy existing between the breasts and the womb, even at this early peniod of life. The absurd notion of the nurse, that she could draw milk from the breast of an infant only five days old, in all probability induced the swelling and lardness, and that the vaginal discharge was caused by sympathy with the irritated maman, I think cannot be doubted; for the one subsided on the abatement of the swelling and irritation of the other. The curious circumstance too, that the infant breathed in utero, was an instance of a peculiar physiological fact, which in this case evidently saved the life of the child during its protracted arrest, by the contracted neck of the womb, while the introduction of the finger into the mouth, and the depression of the chin, distinctly aided, if it was not the main cause that induced the respiratory action. It has often been disputed that a clitd conld cry in utero, but in this instance it was plamly observed, and I think no reasonable objection can be taken to the fact.

Arr. XLVIIT.-Cuses of Angaiceucitis , ir Barladus Leg, with remarks on the probulle Patholyyy of that Discase. By James Bovell, M.D.-Cuntinued from No. 7, pare 277.

If M. Rayer had had an elephantiasis leg before him, he could not have given a more accurate description of the morbid appearances which are present in the extreme stage of that disease. We
refer to the case of Trotman, so completcly illustrative of the extermal appearances described. "The epidermic formation of a dirty grey colour" is not an accidental or peculiar ilposit, hut is a product of those ehanges which immediately precede the tuherenated state of the skin and the formation of the villiform and nipplelike eminences. That this is the case, we helieve is proved by the fact, that this ichthyosis appears first, and then disappears as the tubercles form and the villi become prominent; all the stages were scen in Trotman's case.*

In the case of Horatio, the integruments had not yet become hypertrophied, nor had the disease advanced to an extreme deyree. Fiom striking the leg against some timber, a large uleer formed, the extent of which is illus rated; it had been healed under the late Dr. King's care before, but being compelled to work hard, it became bad again; and having had two of his tnes lurt by the tread of a horse's foot, he was admitted into hospital, and the leg amputated Inlow the lenee. In those cases where, from external appearances, we are certain that the skin is not hypertrophien, and where it is found that position has the cffect of lesening the size of the limb, we have never hesitated to give the patient the benefit of amputation below the knce, and in no single instance have we had canse to regret the practice. In 'Trotman's case we could not have amputated hclow the knee, becanse there would not have been interuments sound enourl, wherewith to form the flap, the tubercles cxisting ligh up on the calf; not so with Ilorntio, whose integuments had only just become toughened by deposit over the bulging instep, and in spots about the ankles. In the case of Best, he enormons size of the foot did not depend on deposit of lymph below the integuments, as much as to an enormonsly thickened and semi-cartilaginous hardness of the skin. The calf of his leg was not so large as 'Trotman's, but the smallest toe on Best's foot was the size of 'Trotman's great toe, and had lost its shape, being roum, and exactly like a caulinower.

In all the cases submitted to amputation the vessels have been more or less diseased, in some proceeding to an extreme degree both of dilitation and britteness, rendering it necessary in these cases to include within the ligature the aurrounding cellular tissue. In the ease of Thomas Connell there was very great disease of the vessels; the artery was partially ossified, and very much enlarged, admitting into its gaping mouth the first jnint of the little finger, and the accompansing veins were considerably dilated; notwithstanding the dilitation of the vecsels, and their loss of contractility to a great exten+, it is matter of surprise that there

[^0]should have been so little haemorrhage! When, however, we see that the effusion of inorganizable lymp consequent on repeated attacks of Angrioleucitis cumpresses the surrounding parts, and only gradually distends the interuments, I think that the cause of dilatation of the vessels is to be songht in the fact of the obliteration of the smaller branches, for even some of the bramelies that are subeutaneous have been foumd enlarged considerably, white the muscular branches have not been seen, and in these cases the museles have been extremely pale; in the illustration of the amputated stump, these appearances are indicated; the anterior tibial is not enlarged, nor was it or the accompanying vein in this individual case diseased; but the subentaneous yessels had become enlaryed, apparently performing a compensatory office, for the mancles were remarkably pale, the interspaces of the museles being oceupied by thick deposits of lymph. This man had had an acute attach of angeiolencitis a few days before his admission, and it was curiuns to see the different phases which the lymph was undergoing, in the calf of the leg, where the pressure was least it was still fluid, being about the consistence of thin gum arabic solution; as it descended towards the ankle it became mueh thicker, and had a very strong resemiblanee to calf's foet jelly, between the tendons on the instep it was the same, in many respects resembling the anatogrous change produced on lymph, effised on the pleura, by the pressure of the ribs. In no case did the diseased condition of the veins appear alute, but was ahways accompanied by a similar change in the arteries; in fact there was greater disense of the arterial system since there was not simply dilitation, but also deposit of bony plates. Dr. Graves' sliii lecture would lead us to suppose that in opinion, he coincided with those who assert that the Barbadus ley of Inillary is caused by inflammation of the cellular tissue: The case is that of Mary McQuade, a poor woman, admitted into huspital labouring under an attack of fever, accompanied by considerable prostration, auxiety, and restlessness; in addition to these symptoms she haill a local affection of a very important mature; the right les, as far as the knee, is swelled to twice its natural size, and a large erysipelatous blotch occupies the fore part of the fuot, extending over the ankles on cach side; the thigh also is increased iu size, as far as its upper third, so that the tumefaction embraces more than two-thirds of the whole extremity; there is considerable degree of tension present, and the limb, particularly along the internal surface of the leg, is extremely tender, the sore ness beiny sogreat over the course of the veins and lymphatics that she could not bear the slightest touch. The disease in this case Dr. Graves asserts, had its origin from cold, and he observes"When a patient is exposed to cold, under unfarourable circumstances, local iufammation is generally the consequence, and it depends on a variety of causes of what description the inflammation
will $\omega c$, and on what particular part it will fall. When the lower extremities are the parts chiefiy exposed, inflammation of the cellular membrane of the leg is apt to ensue, or it may attack the veins as in the case bcforc us constituting phlebitis, or the lymelhatics may be prinuarily anad almust c.eclusicily cmyayed. In a few eases inflemmation attachs the arteries of a limb, as in a case which has been published by Dr. Stuhes and myself in the Dublin IIospital reports, where a persun from eaposure of the lower extremities to cold, got an attack of arteritis, terminating in mortification of the limb, and death. Exposure of the lon cr extremities to cold gives rise to phlebitis much oftener than to arteritis. Dr. Stokes and I have published a striking case where inflammation of the veins of the leg was produced by this cause; you perceive then chat painful swelling of the luwer extremities, originating in culd, may consist either in the whole cellular membrance being engaged, or it may arise from inflammation of the lymphaties, of the vins, or of the arteries. Now, when inflammation attackis in the first instance the subcutaneuns tisste of the loner extremities it frequently in its progress involves the lymphatic and venous tissues, the arterial very seidom, for the arteries lie deep, and have no cunnection with the subcutaneous celluiar membrane. There is, however, nuthing more common than that infantimutiout cumnecaciuy in this uay should terminate in phletitis and disease of the lymphutius. This appears to be the nature of phlegmasia dolens, that peculiar inflammation which generally attacks one, and seldom buth of the lower extremities, which is most cummunly observed in females, and which is characterized by swelling nut pitting on pressure, by eacessive cutaneous tenderness, and by a remarkable whitoness of the shin of the affected limb, accompanied by increased licat, and more or less lesion of the lucomotive function. These are the principle symptoms which characterize phlegmasia dulens. The inflammatory condition of the limb causes an exudation of fluid into the cellular membrane, cousisting partly of serum, and partly of ly mph ; this proluces swelliug, which is of a firm and rather unyiulding character, not pitting on pressure like that which results from anasarea. After some time the inflammation extends to the neighbouring tissues, and attacks the veins and lymphatics, a circumstance which has led many othicrs, among whom is Dr. Lee, to believe that phlegma,iadolens arises primarily from phlebitisthis however, is nut borne out by the fact, nor is it trae that it consists in inflammation of the hympaties, as others hat cuggested; it may engage both the 1 g mphatic and venous tissues, but it wiffers in many points from pure phlcbitis or true inflammation of the Jymphatics.-Clen. Medecine, p. 703. Dr. Righy, on the contrary, defines phlegmasia dolens to be tumefaction of a limb from inflammation, aud obstruction of the main lymphatic trumh Jeading from it. This opiniou is derived from un clabutate disoction of a
case by Mr. Nurdblad. The patient was siugle, excessively deformed in her bach, and with the peculiar unhealthy appearance of persons thus affected; her labour had been perfectly natural, but on the fulluwing day she was seized with risurs, followed by flushing, a quick pulse, and abduminal pain; these symptoms were in a great medsure relieved, and she appeared to be slowls improving. On the ninth day after labour she first complained of pain at the outside of the left thigh, cxtending from the iliun to the linee, very exactly, in the cuarse of the inguino-cntancums nerve; it was tender to the tuach, but there was no pain on pressing the femoral vessels at the groin. On the following day the pain and swelling of the thigh had iucrased, but still no pain was to be detected on pressing the femoral versoels; leeches were ordered, but she sunk immediately after their aplication, and died tarly next murning. Upon examination after de ath, the body was found much attenuated, the left thigh one-thind greater in circumfercnce than the night, abdomen tympanitic, aut tense, parietes very thin, the luwer part of the ilium, caput coli and arch of the colon contained air ; a streak of inflammation was delineated along the anterior surface of the colon from the cantre of the arch, throughout the descending portion of this infestime to the left of the iliac region; it was marhed by a transterse band of capillary vessels, minutcly injected in the thickened peritunem along the whole of its course. A few convolutions of the suall intestine were smeared with recent lymple, and one fold was found to adhere closely to the luft side of the pelvic peritoneum at the point of reflexion of the ligamentum laterum uteri. A fuw sinall portions of coagulable lymph were also found luose amungst the intestines. At the pusterior surface, and left side of the buily of the utcrus soft lymph and pus were effused for the space of an inch bencath the peritomal covering of this viscus, the membrame itself beins highly vascular from inflammation, but still shewing the ffusion through its teature, the fundus of the uterus whire it receives fallopian tabe and round ligament attached was similarly affected, though in a slight degree, lymph and pus were eflused here also. Prom these two juints the inflammation appears to lase spread to the rest of the servus membrane, from the first indicated point it progressed atons the posterior fuld of the broad ligament to the surface of the rectum and colon; from the secund situation the romat liganent and fallopian tube have formed the coutianons lite of its progress. On raising the peritoncum from the iliac fossa, the cellular membrane which envelopes the round liganent, where this cord is about to pass under the epigrastric icosels, after the guitting the perituneal cavity was found iufiltrated and combensed with lymph and pus.

The whule of this .ellalar membrane (which it will be borne in mind is the fascia propria of Sir dotley Copper, and which fills the femoral ring, and murcoter forms the mudium of tratismission.
for the lymphatics of the thigh) was in the same condition, densely matted by lymph, and containing pus in the interstices. The lymphatic giands in the groin were slightly cular red, and some serous fluid was eflused in the surrounding tissue. The femoral vein and artery were free from disease, the imner coat of the former vessels, as well as the intermal and extermal iliac viens and vena cava, had not the slightest trace of increased vareularity or thickening. The chain of gleads from the femoral ring along the course of the iliac vessels aud aorta on the left side, were enlarged, sof, and rascutar. Several of the lymphatic bodies contained between the layers of the meso colon, were found enlarged, and contained soft lymph. De. Lee, on the contrary, has delared phegmasia dolens, to be a phlebitis, and has been supported in his opinion by by varions practitioners. This, however, is not a question on which we are at pr sent disposed to enter, all that we wish io do is, to prove that Mr. Rinby's case wac the acute stage of that disease frequently seen with us, and which taking its rise in the abdomen, becomes iften fatal, but when attacki., g the ly mphaties of the luwer extremities, gives rise to clephratidsis. In this case, as in others, we see the defects arising fan momenchature, and there can be no zount but that rariows discates have been chased and considered as elephantiasis winich are entirely different, and poness distinctive patholosicai traits. If unifurmits of symptoms, accompaniod and fulloned by eonstant and persistent pathological phenmena; be any evidence of the chatacter of a disedse then do we affirm hat there is $1: 0$ disease whose symptums are mure uniform, and where the pathological phenomean ate d. wed ped in such rezular progrestion. It is not that we have an enlargement of the limb resulting from infammation of this or that tisme indiscriminately. We do not wituess the comsequences of "Barbados les," proceeding from phlebitis, nur dues phatermatia dolens, which is ato observed in Barbados, entail on the sufferer the hideous and mishapen deformity of clephantianis: and where is the proof that such changes arise from cellahar inflamation, or as it has ben move enrectly called, autuiuluctitis. Butan we learn from Bent's case, and as has been witnessed in uther cases, the morbid enlargement may be confund to the intesume mis, conntituting to all appearance que hypertrophy of the shin, and it is astonishing to witmess the enornous thickeniur with scaredy any change within the blond vessels or muscles of the leg; and if we are to credit the revarches of Breselhet, and the patholegical diseetions of M. Andral, the skin has the requisite urganization, rendering it, in common with other parts of the buly, susecptible of the disease. It is to be horne in mind, that it is only in hose canes where the deposit has taken phace in the subentaneous and intermuscular cellular tissue, that the diseased state of the vessels is pereeived.

## hịvicu.


Tur: Work here presented to our consideration, is from the pen of a veteran in Opthatmic Surgery, a department which he has studied with no ordinary degree of zeal, and enthusiasm; whose reflections consequently are deserving our most atentive perusal. The book is intended as an introluction to the study of Discases of the Eye, and is well worthy of the careful attention of the student and general practitioner : it was espccially written for their consideration, rather than that of the professed occulist. He says in the preface that "This I do, because I think the study of these diseases should be restored to its original conspicuous place amongst the most favoured topics of medical instruction, rather than abandoned to a more limited cultivation"-a resolution deserving our most cordial approbation, and the encouragement of the profession generally. There is nothing in the study of the diseases of the eye, to deter the diligent student from fully comprehending the subjest in all its beariuls, if he has been sufficiently grounded in the minute anatomy and the phesiology of the organ; the general lans of pathology will casily inhstrate its diseases, and present him from time, to time, with demonstrations of the several changes in the derangement or destracion of the inutritive process, incident to diocase, which camot be witnessed in other parts of the body-

The work is entitled, "A Treatise on Inflammation of the Lycball," anil certainly the description of the seceral waticties are graphic in the extreme-in it all the tisotes of the organ participate: it may commence in one, but som sprouls to others, implicating their organisation with rariable intensity-as is very apparent in the individual parts as the disease progusses. The subject-matter, howerer, might be more adonageonsly arrabed for the stadent who would most decidedly be better able to comprehend the deecription, and to recognize the extent to which disease in the several tissues proceeds, had he fully learnal to comprchend thea in each individual texture, as a distinet disease.

One fact curious ia itself, and probably the cause that has led to the aloption of this phan, is that iaflammation of the ey eball is said to occur compraratively more frequent in lreland than ehe where.

The several varieties of inflammation of the eyeball, are possibly dependent upon some chemical eomdition or puisoning. of the blowh, in which the whole mass of that fluid paticipates; which explains, that should disease be lighted up in one of the tissues of the ejeball, it is the more likely to spread to the others, and thus involve the whole organ; but even here, the several poisons appear to be mere especially inimical to individual tissues; thas we have
the sclerotic coat, suffering especially in the gouty and rheumatic varieties-while in the syphilitic, the iris appears to be principally its seat. In the first chapter, we have a description of inflammation of the eyeball, as it generdly oceurs in Ireland. The progress and general character of the symptoms here detailed, do not bear the impress of achte phlegmonous inflammatinn, their march is far more tardy, and the results arrived at in the progress of the complaint, although sufficiently grave, have not the intensity which is often witnessed in acute infammation of the eyeball-the rapid plastic deposits, and specdy ulceration and evacuation of contents of the globe, is nut marked among the results; in fact, it is evidently a variety modified by that state, and chemical composition of the blood, which seems to privall so penerally in Ircland, and which so largely predispused tuf, ver; and this conclusion is the more probable, from the fact that we fund a chapter immediately succeeding, on inflammation of he eyeball following fever, in which we cannot challenge any variation in the symptoms, that should lead us to recognize it, as a distinct disease from that previously deseribed, only that it appeared as a sequela of fever. The same peculiar condition of the circulating fluid, was in all probability present in both cases; therefore we think it nut unreasomable to conclude, that the same peculiar and wide spread condition, which so frequently causes fever to be rife in Ireland, is probably the reason that inflammation of the eyeball, so generally takes this charactor in that country. If these facts are correct, the student must bear in mind, that in other more favoured regions, or under other local circumstances, inflammation of the eyeball may present far more urgent symptoms, and in its treatment demand more active means than have been suggested by Dr. Jacob.

The succeeding chapter is dedicated to Syphylitic Inflammation of the Eyeball : the detail of the symptoms, and the prognosis of the disease, are somewhat meagre; while the treatment by bleeding, mereury, spirits of turpentine, and lisdriolate of potash, are fairly pointed out, and worthy the attentive consideration of the practitioner. A point of sume impurtance, and not gencrally kiown, is that syphilitic iritis may manifest itsolf in the infant, as a secondary symptom, dependent upon primary discase in its parents. We conceive that we cannot do better than quote the author's own words. At page 97 he says:-
"Syphilitic inflammation of the eye is sometimes although rarely met with in infants; and it may be assumed that its rare occurrence is to be attributed to the comparative infrequency of syphilitic disease at this time of life. The practitioner should therefore bear in mind the pussibility of the existence of such disease, when called upon to attend infants suffering from discase of the eye, or its future appearance in those labouring under symptoms of syphilis without any present appearance of iritis. This it is
necessary to inculcate, because syphilitic inflammation of the eye sometimes takes place in infants, as in adults, unaccompanied by any other form of the disease, and is sometimes accompanied by such slight increase of vascularity or other appearance of disease, that it may escape notice. In the early stages, redness of the sclerotic, discoloration of the iris, and irregularity of the pupil, are the appearances to be observed; and at a more advanced period, alteration in the shape of the sclerotic, and cornea, contraction of the pupil, and adhesion to the margin of the opaque lens, sometimes a dilated and irregular pupil, with a transparent lens, is the consequence; but in other cases, where the disease has escaped observation, or has been neglected or mismanaged, insensibility of the retina, or amaurosis and consequent blindness remain. At this time of life, little information as to the extent of the disease san be obtained from trial of the visual power of the organ. The baby will grasp at a watel, or other bright object presented to it, as long as any degree of sight remains, but slighter defects of vision can scarcely be detected. It is therefore necessary to make a careful examination of the eye, and close enquiry as to the presence of syphilitic disease, or of its previous existence. I see these cases oftener after the mischief has been done, and the organ destroyed, than during the commencement of the attack, when it might be saved; yet even at this period, the emaciation or defect of nutrition, arrested growth, and palid dingy skin, proclaims the nature of the disease ; and sometimes other forms of it, even now, may be detected. I was lately called upon to see one of these cases, considered to be simple cataract, in a child then three years old. The pupil was contracted, and adherent to an opaque lens and capsule, and vision was irreparably-destroyed. This occured when the child was only a few months old, yet on examination I found the tongue studded with small irritable ulcers and clefts, and a soft condylomatous elevation at the anus, which speedily disappeared after the administration of some hydrargyrum cum creta. The treatment of syphilitic infiammation of the eye in infants, does not differ from that prescribed of adults, except in degree. Mercury and the local application of the extract of atropa belladonna during the existence of the inflammation, and tonics, alteratives and generous diet, should the discase linger, constitute the principal resources. Of the preparations of mercury, the hydrargyrum cum creta appears the most appropriate and convenient, and in acute cases it may with advantage be continued at first with James' powder, or gther manageable antimonials. Sarsaparilla, iotine, and bark, can be resorted to as auxiliaries, if necessary."

Next follows a chapter on that rare and anomilous disease, inflammation of the ej eliall, attendant upon gonorrhea. This disease of the eyc is invariably attended with swelling of the joints and acute pain, often migratory from one to the other, as in acute
rhoumatism, attacking the fibrous structures of the body; the selerotic enat of the eye is liable to be more or less implicated, as a variety it may commence in that texture and by degrees spread to the other tissues. The cornea may become opaque, the iris contracted and adherent, and not uifrequently opacity of the capsule of the lens occur. These are, however, but secondary affections, marking the progress of the disease; the fibrous tissues of the joints are evidently influcnced by a similar affection, soon implicating the serous tissucs, hence the swelling and effusioneven the gonorrheal discharge would seem to depend on a similar influence, engaging the urethra, and spreading to the mucoius membrane, bence the discharge, which occurs less as a cause of venereal infection, than as the result of the constitutional condition.

The presence of a discharge from the urethra, which in some of these cases appears to have been the natural or supposed result of venereal infection, naturally led to the supposition that the affection of the eye was caused by that disease; but when we have cases in which the urethral discharge has occurred without any suspicion of vencral infection, and where it was attended with other symptoms, which indicate an affection of the fibrous tissues in other parts of the body, we must hesitate to pronounce this complaint of the eye, as a secondary symptom, the result of gonorrheal infection; and moreover when we find that the peculiar state of poisoning of the blood, which occurs as the caise of rheumatism and gout, gives rise to a disease of the eye, identical in character and appearance, we are naturally led to conclude that the disease of the eye, and the affection of the Urethra, are but complieations of the disease of the fibrous tissues caused by the poison.

The two succeeding chapters are occupied with a description of rheumatic and gouty infammation of the eyeball. In these the fibrous coat appears distinctly to suffer as a primary condition, and the disease spreads, with more or less celerity and intensity, to the other textures of the eye. It is possible that a practised eye may be able th appreciate some slirht difference in the symptoms, and appearance, of these different diseases, but Dr. Jacob has failed to indicate any in the histolorical discription which he has given; and the only real evidence is the appearance of grout or rhenmatism in some other parts of the body. Doubtless inflammation of the eyeball oceurring in a system charged with the poison which cuses gout or rheumatism, may be suspected from the lithic deposits in the urine, \&c., and the disease of the eyeball pronomeed upon aceordingly. Dr. Jicolo very correctly remarks, pare 143, "If as I have stated, the specific mature of the inflammation cannot be positively ascertained from the changes in structure which takes; place during its progress, or from the sensation of the patient, it remains to be determined whether it can be ascertained by any
other means. As I stated with respect to rheumatic inflammation of the eye, so do I with respect to the arthritic, that it cannot be with certainty recornized as such, unless there be unequivocal evidence of a grouty diathesis in the system, cither from present symptoms or previons paroxysms." T"his is a pretty dicar confession, that it is to the character of the poison we shall have to rafer for a solution of the nature of the disease, and we doubt not that ere long chemistry will supply us with tests, that shall indiente its character and amount, long before its peculiar effects are recognized in the system in the shape of disease

In serofulous inflammation of the eyeball, which follows next in succession, we have another discase of this organ dependent upon peculiarity of constitution. Hure, we presume, that the blond is again at fault, and that tuberele is the result of effusion from the conjested blood-vessel. The effinsed plasma here takes on the changes peculiar to the formation of tubercle, in other parts of the body; this by degrees softens, and a discharge of pus is the result; and that generally escapes through the sclerotic coat by slow degrees. The junction of the enrnea with the selerotic coat, appears to be the most common seat of this deposit. It may extend into the anterior chamber, and protrude externally under the conjunctival membranes, causing considerable elevation of the part. The matter seen through the cornea looks of a yellowish tint; and although situated at the superior margin, and hanging down into the anterior chamber, does not mix with the aqueous humour, or descend to the bottom of the eye, as an hypopion, but we find it rather protruding through the selerotic coat, and that long before the anterior chamber is filled. There is comparatively but little inflammatory action preseat, and that of a chronic character, apparently caused by morbid deposits; while fur the amount of disorganization there is remarkably little pain; symptoms that appear to us, as pathognomic of this variely of disease. It page 170 Dr. Jacob clearly points out these facts. He says,-" In my practice, I have so often met with cases similar to those here quoted, in persmen of scrofulous constitution, and even suffering from glandular disease of that character, that I think there can be no dount as to the nature of the malady. In one an unmarried lady of ahout twenty years of age, the whole eychall became filled with a firm yellowish mass, presenting all the appearances of serofulous tiberelec, and suppurating at several points, so that I could pass a probe in different directions, nearly fiom one side to the other. This divease mast not be confourded with that rariety of conjunetival irritation denominated serofulous ophthahnid."

Dr. Jacob next enters into the consideration of inflammation of the cornea, retina, and choroid coats-all of which he demonatrates as individual entities,-alchough, equecially the two latter, seldom occur unaccompanied by affections of the other tiosues the careful consideration of the practitioner. With regard to the disenses of the crystalline lens, which follows, we do not consider him so happy in his deductions, or so fortunate in the explanation of the anatomical structure of the part, from the consideration of which, he endeavours to substantiate the fact, that inflammation of the lens is the cause of cataract. Dr. Jacob maintains that the crystalline lens is vascular, having blood-vessels passing into its structure; which, however, he confesses not to have seen, but which he assumes to exist from analogy. The great light thrown upon anatomy and pliysiology, by the microscope, goes distinctly to prove that these views adopted by Dr. Jacob are erroneous. He seems to fancy such might be the case, from the opinion of several authors whom he has quoted. He does not however, candidly confess, that if the views of microscopists are correct, inflammation of the lens cannot have an existence. The lens is a distinct cellular formation; and from the arrangement of its structure assumes a fibrous character, and can only be influenced in its diseases by endosmosis and exosmosis. That inflammation of the capsule of lens is a disease perfectly demonstrable, is equally certain; and that it is liable to all the changes and derangements of nutritive action attendant upon this variety of disease, is also clearly obvious; but that it can act upon the lens otherwise than in an indirect manner, is not so certain.

Inflammation of the eyeball from injury and phlebitis are then considered The first is, of course, dependent upon the extent of the injury, the character of the tissue implicated, and the peculiarity of constitution present at the time. The latter is most frequently a secondary affection, and is generally combined with inflammations of the veins in other parts of the body. As such it is a disease of the most formidable character, and when very extensive, most commonly fatal. Inflammation of the ophthalmic vein, being rather a rare disease, and its symptoms seldom duly appreciated, the following ease recorded by Dr. Lee, in the 28th volume of the Medico-Chyrurgical Transactions, may serve to illustrate its nature:-"Ten weeks after delivery, and six after the commencement of uterine and crural phlebitis, the conjunctiva of the right eye suddenly became so much swollen and inflamed, that the eyelids could not be closed, and a copious secretion of an opaque fluid took place from the inger suiface. The cornea soon became opaque, and vision was entirely lost two weeks before death. There was little pain or into!erance of light. The left eye became similarly affected, without much pain; and both were so much swollen that they appeared to protrude from the orbits. The vena cava, internal and external iliacs, and femoral veins, had all undergone the usual change of structure which result from acu!e inflammation."

Some remarks on neuralgic inflammation of the eyeball, brings to a termination the views of Dr. Jacob, as expressed in the volume before us. Considering this subject," he says, page 336, "in certain forms of inflammation of the eye, the pain is evidently disproportioned to the amount of inflammatory action, resembles more the agony of toothache, and takes place more in pangs and paroxysms. It also has regular periods of intermission, or irregular remissions, and is exasperated by light. At the same time the eye becomes intensely red, vision is nearly lost, and luminous spectra, with scalding lachrymation, add to the patient's sufferings." That the pecaliar derangement of nervous sensation, generally recognized as neuralgia, is a frequent attendant upon diseases of the eye, must have been observed by most surgeons. 'That hyperemia or congestion of the blood-vessels of the eye, is frequently an attendant upon disease of the fifth pair of nerves, must also have been observed. In almost every case of tic doleureux, implicating the ophthalmic division of the fifth, we have great intolerance of light, and profuse lachrymation,-symptoms indicative of the sympathy of the parts to which the nervous fibrilles are distributed; the formation of the lenticular ganglion, from whence proceeds the ciliary nerves, distinctly explains the cause why the iris participates intensely in this affection. That the inis is the seat of the intolerance of light rather than the retina, I think may be shown, when we observe its great susceptibility to the influence an influence light, sympathetically agreeing with the retina. Cases of complete amaurosis have occurred when the retina was totally insensible to the stimulus of light; but when we find the iris still enjoying great motive power-contracting upon the admission of lirht into the eye-and acting as though the retina still ..eknowledged the natural stimulus, a fact clearly demonstrating that the branches of the ciliary nerves, distributed to the iris, have a sensibility pecularly adapted to receive the impression of hight. Under these circumstances, I think that it is but a natural conclusion to acknowledge, that the intense intolerance of light, attending most cases of scrofulous ophthalmia (as it is called), is only a species of neuralgia of the iris, attended with some derangement of the cirenhatory apparatus,-sometimes the canse, sometimes the effect, of this peculiar disease. The length of time this disease will remain, its frequent return, without producing an amount of disorganization proportioned to the severity of its symptoms, will also indicate that it is the nervous, rather than the vascular system, which is the seat of the disease. Dr. Jacob says, page 337, "I have often been astonished to find the eye, which for three weeks or a month had been intensely red, with severefintermitting pain, intolerance of hight, scalding lachrymation, and alarming defect of vision, little injured after the inflammation had subsided,"-facts in themselves sufficient to show that the derangemont of the nutritive function, the effect of inflammatary
action, was not present to any great extent; for we often witness but the slightest of the effects produced by that morbid process. The conclusion we think warranted in arriving at is, that the se veral tissues of the eye supplied by the fifth pair of nerves, and lenticular ganglion, are liable to be implicated in neuralyic diseases; and that the ciliary nerves distributed to the iris occasionally, indeed not unfrequently, are the scat of that intolerance of light which, is an exayerated amonnt of its natural sensibility, and which we have not unaptly designated, neuralyia of the iris.

We confidently recommend the book to the notice of the student and practitioner. They will find much in it of great practical value, and a little reflection will soon enable them to discriminate between whot really possesses this character, and what may be the result of speculative reasoning, arising from the author's individual or preconceived physiological opinions.

## Corrssponeme.

## MIDDLESEX MEDICO-CHURGICAL SOCIETY.

Tue monthly meeting was held at the residence of Dr. Phillips, on Tuesday evening, Feb. 3rd, the following members being present: Dr. Anderson (President). Drs. Phillips, Moore, Farmer, Holmes; honorary members Brown 23rd Regiment, and Hassard, Royal Artillery. Dr. Brown read the report of a case of aneurism of the arteria innominata, and illustrated it with a beautiful preparation of the artery and sac taken from the deceased.

Some discussion then took place, relative to the notice contained in the U. C. Medical Journal of January last, respecting the Canadian Eccletic Medical Association, heild at Brockville.

The following resolutions were passed manimously.
Resolved 1. That the members of this Society, haviing had their attention directed to the notice of a meeting of a Suciety styling itself "The Canadian Eelectic Medical Association," held at Brockville, C. W., on the 24th September last, do consider it their hounden duty as legally qualified practitioners of medicine and surgery, to express publicly their unqualified dissent from, and their utter disapprobation of any such illegal association.

Resolved 2. That this Society unammously concur in the proposition made in the U.C. Medical Journal, of forming a Provincial Medical Association to watch over and protect the interests of the professions; as by union and concentration of strenyth, the Faculty of Canada West may finally be enabled to obtain from the legislature of this l'rovince, that protection of their righs and privileges granted lately to their professional brethren of Camada East.
(Signed)
Alex. Anderson, President. G. Holmes, Sec. $\&$ Treas.

London, Feb. 4, 1852.

## TORONTO, TEBRUARY 16, 1852.

## THE MEDICAL BOARD, CANADA WEST.

We take up, according to promise, the consideration of the statutes by virtue of which this Board is constituted, and under the authority of which its prerogative is exercised.

It would appear, that in 1S14, an act was passed, entitled "An Act to license practitioners in Medicine and Surgery throughout this Province, and to make further provision for licensing such practitioners." This act was wholly repealed by another passed in 1S18, during the 3rd session of the 7 Geo. III., chap. 13; and the 3rd and 5th clanses of this latter Act were repealed by a subsequent one, passed in 1S19, during the fourth secsion of the 7 Geo. III., chap. 2. It is under the unrepealed clanses of the second, and the provisions of the last Act, that the proceedings of the Boand are trausacted. We asserted in the remarks published in our last number, that an unsuccessful atiempt, had been made at a recent mecting of the lloard, to raise the standard of medical education, by establishing a certain curriculum of study, with which all candidates for license should be required to produce evidence of having complied, and also to regulate the mode of examination. In general terms it may be stated, that that eurriculum included a complete elementary education and attendance for a given time upon certain prescribed courses of lectures, such as are usually required by corporate bodies authorised to grant ad practicantum degrees in medicine and surgery. The proposed regulations with respect to the examinations were to the effect, that these should be conducted partly by written questions and answers and partly viva voce. The objectors to these changes in the system hitherto pursued, raised the question of the power possessed by the Board to make such regulations under the Act. It was also objected, that the system of writing his answers might tend 10 embarras the candidate, and would occasion great practical inconvenience, from the delay which would necessarily attend such a proceeding, by which the time of the examinators might be unduly occupied. It was even averred that it was probable a certain proportion of of the candidates would be unable to comply with this requirement. We propose to discuss these objections, and in doing so, we desire to disavow any intention of reflecting upon the reasons or motives of those who entertained them. A free discussion of these points will, we believe, be productive of good;
and while we respect the conscientious opposition of men whose opinions are founded on conviction, we may be permitted to question the accuracy of the reasoning by which they have arrived at, what we regard, as erroneous conclusions.

The second clanse of second Act above mentioned, provides the appoinment of five or more persons as a board, ihree of whom to be a quorum, "to hear and examine all persons desirous to apply for a license to practise," "and being suttisfied by such examination that any person is duly qualified to practice, to cerlify the same," whereupon the Governor is authorized to grant the ficense.

The th clause of the last named act provides "That every person desirons of being examined by the said Buard tuaching lis qualificatons for the pracice shall give due notice to the scretary, \&ce." It is evident that these acts appuint the authority to hear and examne and to centfy, the qualifications; but it is remarhable, that they make no allusion as to what those qualifications shall be. The power here mplied is untimited. In the cunstruction of an act of Parliament, where the literal meaning is ambiguous, it is usual to aceept what may reasonably be deened to be implied by the language employed. Far from being restricted in the powers conferred by such wording, we conceive that the Board might, with every degree of right, establish any standard which seemed to it necessary, even if this were to include a knowledge of the Hebrew or Choctaw languages! Nor could such a regulation be considered unreasonable by the candidate, provided its existence was made known, for the law prescribes that every one desirous of leiny cxamined touching his yualifications for the practice-What qualifications? Those appointed by the persons who are to hear and examine him. He knows that he must suhmit to this ordeal before he can procure his license, and it is necessary; and his duty, so to prepare himself that they whose office it is to certify to his qualifications may be satisfied by such examination.

But the Board it would appear has already recognized the power of making its own regulations under these statutes, and has established a precedent, by passing a rule that cach candidate shall be required to adduce evidence of having been engaged at least three years in the prosecution of his professional cducation. By this rule the principle is avowed, and it is ridiculous to object now to its application to a complete modelling of that education which this rule acknowledges to be necessary. It is only a question of degree, and one which should never engage the attention of the Board where the expected results of its action will be so important and beneficial.

The consideration of this question certainly leads to the conviction, every day becoming more confirmed, that the interference of, the legislature is required, to place the medical profession on a
proper footing, by conferring on its legally qualified members the right of regulating its affairs in all that appertains to education and internal govermment. In the absence of such extended privilegex, it becomes the daty of those to whom this trust is at present confided, to fulfil it faithfully, by eacreising their high prerogative with a jealous care for the interests of the profession, and the safety and welfare of the community. And in what better manner, we may ack, can they discharge this duty, than by providing lor, and insisting apun, the cfficient education of thuse who serk to ascume the responsibility (and what a learful one it is) of managing and combating the manifold diseases to which by nature and accident their follow creatures are liable.

The experience of all who have passed through the ordeal of a professional examination, mast have established the fact, that it was not sn much the matter of the interrogatories which tried their fortitude, as the mamer in which those interrogatories were put, and the consciousness of the extent or deficiency of their own preparation. A nataral timidity of disposition would undoubtedly render them more liable to embarrassment and confusion, a circumstance easily perceived by, and generally eliciting the sympathy of, a conscientious and practisedsxaminatur. Nor can it be denied that the embarassment of a candidate is very frequently much encreased, by the difficulty which he may experience in expressing himself, under the circumstances, with that clearness and precision, so necessary to a cumplete revelation of his knowledge; a difficulty which presents itself to many in less critical positions-ceven in the ordinary intercoirse of social life; and doubtless the familiarity of the observation, that many men can commit to paper with greater facility, that which they wish to impart to others, than they could speak it, first suggested the system of written answers, now very generally adopted by examining bodies. The time and opportunity for reflection, without the risk of misconstruction to which any hesitation in verbal reply might possibly give rise, is an advantage of material value to one, on the accuracy of whose answers so much of vital importance to his future prospects is contingent. We are convinced that there are very few who would not gladly avail themselves, if the option were permitted, of the opportunity of quietly sitting apart, and transcribing the results of their study and observation by a deliberate exercise of their powers of memory.

For the plea of the time which would be required to carry out this system of written investigation, we can perceive no good foundation, if the provisions of the act are strictly enforced. The 3rd clause of the last act provides that "the Board shall be held on the first Monday in January, April, July, and October, and may be continued by adjournment from day to day until the business before the Board is, finished, -provided no one sitting shall be so continued
beyond the Saturday in the week in which such sitting shall commence." And by the the clause the candidatc is required to give duc notice to the Secretary." Now, it appears to us that the Monday of the week is the only day, on which applications for examination can be entertained, and that of these due totice must have been given. As in the case of the nature of the qualifications, so it would seem with respect to the notice, that it is the implied prerogative of the Board to assign what shall he considered due notice, no provision being made for it in the statute. If this be properly regulated-and we conceive that it would be only consistent in the Board to name a sufficient time, as by reference to the list of its members we perceive that some of them do not reside in the city, no want of preparation on the part of the examiners need exist; the requisite number of questions for each candidate might easily be constructed at their own convenience. We understand that the notice liitherto demanded has been only twenty-four hours, a period certainiy too brief for this purpose, and more particularly for noilifing non-resident members of the Board. The names of all who intended to present themselves on the Monaiay having been in the possession of the Board for some time preyiously, it would be but a simple matier of arra.ugement, by which the cundidate should be allowed ample time to answer the written questions of each examinator. Let-us suppose, for the purpose of illustration, that six candidates present themselves, on Monday the sixth of April, to each of whom six questions are given in anatomy for example : they should be required to write their answers in the presence of the Board, and if the practice of British Inslitutions is followed, they will be limited to a certain time, say an hour. On completing their answers on the first subject, a second set of questions on some other department would be provided to them, and so in rotation until the six or seven departments were exiausted. Now as the Board meets at noon, and seldom separates, if there is any business before it, until four or five o'clock, five subjects wonld be answered by all the candidates on the first day, and if it were deemed expedient, the whole series might be completed on that day; and this would unt interfere with the other engagements of he examiners, to a greater or even to the same extent that the present modic dues. Such a method would permit of the oceasiomal absence of several of the members sauring a greater part of the time; for provided one vás present only, he would be sufficient for the purpose of prcventing intercommunication: nor could any inconvenience arise from adjournment, as the candidate would not be atvare of the nature of the next series of questions to be, submitted to him. The answers might be examined by cach examiser at his leisure, during the evcning or on the next day, when the viva voce exaninations would be proceeded with.

On the subject of the das, and the power of adjournment, the law is very explicit. Monday is the day appointed-the adjournment is to be from day to doy, for the completion of the business before the board on that day. Any departure from this practice must be illegal. We are given to understand, that at present the practice is to assemble on the Monday, and to adjourn from day to day during the week, permitting candidates to offer themselves on any day cluring the week, having we presume first given the required twenty-four he urs' notice.

With reference to the objection, that a number of the candidates might be unable to comply with this requirement, we blush to think, that there should exist any ground for entertaining such a belief or opinion, or that it would be contemplated to admit to the privileges of the prolession men who conld not write their mother tengue. Indeed we are at a loss to conceive how any examiner could conscientiously certify that a candidate possessed the requisite yualufications who lacked this great and primary clement of education. It is to be hoped, that if there be any who are now engaged in the study of medicine who would fall under this eategory of candidates, they will at once either abandon the idea of prosecuting the study, or by a rigid course of self discipline and instruction acquire a knowledge, withont which they will in vain seek to render themselves respected by those whose entire good opinion and confidence it is essential they should gain, if they hope to practice medicme successfully. By admiting such a class of men as this objection prefigures, the strongest barrier to the commission of crime would be removedcrime which alhough glaring in its nature, and fearful in its consequences, is Lut little regarded in the moral code of the progressive spirits of the age-we mean the crime resulting from a presumptuous and ignoraut discharge of duties and functions for which they have received no proper educational preparation. Look at the man who with all the adsantages of a liberal education, embarks his capital and ensages in some speculative undertahing of the true nature and risks of which he knows nohing-how certain and sigual is his lailure. But to him alone the consequences are serious and prejudicial, or if his rashness should have involved uthers, the loss is a peenniary one, which experience and prudence may repair. Yet the world pi mishes him with ridicule and censure. If an artisan should undertake to winstruct some mechanism, beng ignorant of its principles, and marquainied with the use of the requisite tools-the law punishes him for the injury done to his employer by the waste of material, and breach of contract. But on him only falls the penalty of his wayward presumption;-and so through nearly all the ramifications of the social scale. But, if a man, who one day is a journeyman hatter or a stage coach driver, the next day dubs humself a
doctor, a Homœopath, Hydropath or Mesmerist, the creduloüs world flock around him to be duped, irreparably injured, and prabably murdered-aye, to be hastened on to a premature grave, by the administration of the most powerful and subte agents, whose composition, whose relative affinities, whose modus operandi are all a dark and incomprehensible mystery, to this scelerate impostor. And what is the result of all this? If the properly qualified practitioner seeks to avail himself of the slender protection extended by the law for the punishment of the fraud committed on the public, and the injustice done to himselfstraightway the public voice is raised against the proceeding and its justified instigator, whose motives are characterized as invidious, selfish and mercenary. But who shall restore the poor deluded victim to the comfort and enjoyment of his wonted heallh-who reanimate the cold and hapless liody with its former vitality? What compensation will cheer the widowed hearth, give back again the joyous prattle of the cherished infant, heal the wound of blighted love, or bring together the severed links of fraternal happiness! And yet it is desired to countenance and promote these evils, by removing all-legislative restuctions against unqualified practice, by lowering the standard of education and the cost of its acquisition, and so encourage the adoption of medicine as a profession, by those who are umprepared for the study by lacking the most elementary knowledge - a proper acquaintance with their native language, and the ability to impart information by the art of writing. We hope for a better issue, and look for a renewed effort on the part of those who are striving after the wiser course.

## middlesex medico chinurgical society.

We direct attention to the report of the proceedings of the "Middlesex Medico Chirurgical Society" on another page: It is a source of gratification to us to find, that our suggestions have met with the approbation of one County Association. We have received assurances from other quarters to the same effect, and hope shorly to see the scheme in active operation; in the mean: time we would solicit further communications from our correspondents on this subject. It is only by concerted action that we can hope to effect anything, and we are confident that an impetus only is required to set the machinery in full and active operation.

## OUR FATE AND PROSPECTS.

has been reported to us that rumours are afloat, how originating we are at a loss to conceive, that this Journal is to be discontimed. We can assure our friends, subscribers, and contributors, that such is not the fact. The next number will complete the first volume. It would be affectation in us to say, that our success has far exceeded our expectations, but we certainly have no very reasonable ground of complaint. Our present circulation is 350 , and we have little doubt that, Lefore the conclusion of the second volume, we shall have extended the number of subscribers. At the same time we would solicit those who have encouraged our first labours, to continue their support ; and as prompt payment will enable the Publisher to carry out his arrangements more efficieuly, we would request those who have not paid the first year's subseription, to do so without farther delay. With our next number we shall supply a general index and tite-page to the volume, for the purpose of binding. If parties possessing Nos. 1 and 3 , feel disposed to part with them, the publisher will purchase them at cost arice.

ERRATA N THE DECEMber METEOROLOGICAL REGISTER.


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## PIIYSIOLOGY.

## ON THE VARIATIONS OF DIFFERENT INGREDIENTS OF THE BLOOD BY MEANS OF FOOD.

By Dr. II. Bence Jones, II. R. S., \&e.
[In the blood we have water, salts, albuminots substances, and non-nitrogenous organic matter; the effect of food upon thege substances is very interesting.]

In the blood of ran, when a mixed diet was taken, albumen $53 \cdot 2$ parts per 1000 purts of blood were found; on animal food, the 5 th day, 587 parts; the fourteenth day, 62.7 parts per 1000 . The fourteenth day of vegetable food, 51.0 parts albumen; showing that animal food decidedly increases the albumen in the blood, and that vegetable fund does not produce so decided an effect.

With regard to fibrin: the blood of man, when no food was taken, gave $1 / 8$ parts per 1000 parts of blool (the average being about 3 per 1000); after animal food, the third hour, the fibrin was 18 parts per 1000 ; the fifth heur $1 \cdot 6, \& \mathrm{Ec}$; so that thedigestion of food does not seem to increass the fibrin of the blood After the eighth hour, however, when digestiun nust be eaded, the amount of bbrin comes back to the amount which was present before food was taken.

In a dog sta:ved for eleven days as much fibrin was present in the blood as was usually found when food was taken; and after nine days' starvation there was found as much as 2.7 parts of fibrin in 1000 purts of blood. With regard to the influence of different kinds of food, one animal was kept for weeks on flesh oaly, asd another was kopt for the same time on vegetable food only; both were bled from six to nine hours after a meal. The proportion of fibrin in the two specimens of blood was represented by 9 to 7.

With regard to the salts in the blood, there are, after twenty-four hours' stareation, 6.9 parts of saline matter in 1000 parts of blood; eight hours after animal food 8.2 per 1000 ; after vegetable food 77 per 1000 .

As regards the effect of foud on the amount of fat in the blood, after twentyfour hours' starvation, there are 2 parts of fat in 1000 parts of blood. The Table shows that starvation causes a gradual dimiuution of fat, and that food cruses an increase, but in some states of disease the amount of fat is increased fre beyond the healthy limit. I believe that 117 parts of fat in 1000 parts of Whod is the highest ever known to have occurred in man.

The quautity of water after animal food is 784 parts of water in 1000 parts of blood, and after vegetabie food 792 per 1000 ; so far showing that rexteble food causes a more watery state of the blood than animal food does. Sill the quantity of water in the blood is not very closely dependent on the qrantuty of water which is taken into the system. On this point some very interesting experiments have lately been made. Tro dogs were kept for some reeks on :'re same food, cxeept as regariling the quatity of water given to them. One dog was toi given any water, and the other was made to take a iarge quantity It was found afterwards, that the specific gravity of the blood taken from the two doga varied very little. It was almost the same in both.

Still very large draughts of water do occasionally produce reay decided effects on the blood of animals. If, after the blood has been drawn, I take the blood globules, and mix them with distiled water, and then examine the liquid under a microscope, I shai! fiud, if sufficient water has been added, that the
blood-globules have ceased to exist. Pure water has a powerful. action upon them. It bursts, atd breaks and dissolves them, causing them to vanieh entirely. A clear solution like this of blood-globules is formed. Now the same action is said to take place in animals after very large draughts of water. It is stated that in oxen, after taking immense draughts of water, the blood-globules have been so acted upon as to become dissolved, and that the colouring matter has pasaed out of the body. This has continued until so much water has passed from the animal as has sufficed to restore the proper specific gravity to the blood.

I have here a liquite containing blood-globules, in a strong solution of sulphate of soda The quantity of suiphate of soda is se senciderable in proportion to the water that the globules are unacted upon. If the blood had been put into distilled water, instead of into a solution of sulpate of soda, the globules would have been dissolved, and have formed a ciear, colourless hiquid. It is simply the salts of the blond which hold the albumen in solution; and it is these same salts, also, which prevent the coleured globules from being dissolved.

Thus much regarding the influence of the food on the subsiancers in the blond. You will find more on this subject in the pamphlet of Nasse, on the 'Iufluence of the Food on the Blood'; in the pamphiet of Mulders, on 'Nourishment'; and in 'Lehmann's Chemistry,' under the bead of 'Blood.'
[Another interesting inquiry entered upon by Dr. Jones, is the relation of the blood to the substances which are passing out of the body-to the excretions.

One of the most interesting substances, and certainiy the most inmprtant one, is carbonic acid, which passes out by respiration. By a very easy and ieautiful experin.ent I can shew you its presence in the blood. I have here an apparatus which will produce hydrogen. I have a tube full of caustic potash, which will stop any trace of carbonic acid which can possibly exist. Sulphuric acid is made to act upon zinc 80 as to produce hydrogen; this hydrogen passes through the solution of caustic potash; it then passes into another vessel, into which, when filled with the hydrogen, sonse healthy blood is put; the hydrogen bubbling through this, passes through some lime-water in other vesscls; and if it carries with it any carbonic acid, the lime water will of course become turbid. You see how rapidly this turbidity is produced, Carbonic acid, then, is a substance which exists in the blood, and is pascing out each moment by respiratinn. The proportion of carbonic acid to oxygen, in arterial blood, is as 16 of the former to 6 of the latter; and, in venous bloon, 16 carbonic acid to 4 oxygen. This proportion was determined for us by the German chemist Magnus. Ife found that the quantity of nitrogen was the same in. both kinds of blood. M. Majendie states that in venous blood, in every hundred volumes, there are seveuty-eight volumes of earbonic acid gas, and in arterial blood 66 per cent.

Other substances can be obtained from the blood which arp constanty passing out of the body into the urine. The most interesting of these are uric acid and urea, substances which form the peculiar characteristic constituents of the urine. These can be found in small quantities in healthy blood. It hare here a beautiful specimen in long crystals of urca obtained from the heallity blood of an ox, for which I am indebted to M. Verdeil. It is obtained by drying the serum of the blood, reducing it to the finest powder mixing it aith: alcolol, and then pouring off the alcoholic solution, which, in herlih, alway: contains amall quanities of urea. In some diseases the quantity of urea in the blood is considerable-as for instance in Bright's disease. In this disease the blood-globules are exceedingly diminished-the albumen is constantly pasting:
out in the urine; and it is always found that ures is one of the constituents of the serom. It may be obtained thus :- Ilere is the serum of a patient who was bled in St. Genrge's Ilospital. Here is a portion exaporated to dryness; a part of this dry residue is treated with absolute alcohol, the alcoholic solution is evaporated in vacuo to dryness; and the dry residue is dissolved in a little water; on the addition of nitric acid nitrate of urea as you see immediately crystallises.

Uric acid is also found in the blond in health and in disease, combined with soda. It was discovered by Dr. Garroll, of University College; he states that it exists in increased quatity in the blood of gouty subjects; and, from my orn experiments, I can confirm the truth of his statement. Dr. Garrod also says, that he found in Bright's disease urate of soda in excess in the blood. In that disease the kidncy is prevented from perfurning its proper functions; the ingredients of the urine are not separated as they should be, and thas urea and uric acill aceumulate in the blood. Urie acid, lihe urea, can easily be detected, by tahing the serum nr the blood as a whole, enaporatiug it to dryness, reducing it to the finest powder, and treating it with builug nater; arate of soda will thus be obtained in snlution. The liquid is fitered of from the insoluble albumen, and the slear fluid is mixed with strong acctic acid, and set aside to crystalize. The uric acid adheres to the sides and botton of the glass. It may be collected, and will give the characteristic reactions with nitric acid and ammonia.

Kreatin. which I frmerly mentioned as one of the constituents of the flesh, probably exists in the blood. It exists certainly in the urine, as I shall have to show ynu. Hippuric neil, also, which caints in the urine, especially in graminivorous animals, has been found in the blood. It was detected in the blood of an os, by M. Verdeil. Lautly, Dr. Garrod also conviders he has found oxalic aid in the blood of a patient in Caiversisy College IIospital.

Thus, then, thre exists in the bowd nut only the substances which pass into the hody as food, but the substanecs which pass out in the exeretions. I have suid that the great peculiarity of the boom is, that it contains fibin and the red ginbules; these substances cause the blood to difer from all other fluids. The spomaneous enagulation and the reif colutr are caused by the globules and the fibrin; weither of which exists reaty formed in the food, nor are they ever fouml in the healhy excretions. If it were nut for these substances, it might almost be said that the blood was nuthing but a solution of food passing in, and of subatances passing out of the body: it is, then, by the furmation of the fibrin and bind gt bules, that the blood is riade a peculior substume, -an organised liquid, which may live and die like the more sulid organs of which we are composed.-Mredical İmes, August 5, 1851.

## MEDICINE.

## on tire treatment of small-pox.

By Joscph Grostcnor Pasquin, Esq., Birmingham.
[After mature deliberation upon the treatment of small-pox, Mr. Pasquin arrived at the conclusion that the pitting and disfigurement of the face was dependent upon the confincment of the matter too long in the pocks, causing a slough thereby to form in the cellular tissue lying between the cuticle and the
facia of the face. This is not regenerated, hence the cutile falls into the space where the cellular tisue is then wanting, and thas follows the pitting. 'To obviate this, Mr. Pasquin determined to puncture each pock previous to its arriving at perfection, and apply a common poultice. Ile adds:]

I have seen several cases, four whercin the larynx was not at all affected, on which I tried the experiment of puncturing every pock on the face, and afterwards applying repeated poultices. This treatment succeeded to my utmost satisfaction, the face being left as clear of marks as it was previous to the atlack of small-pox. I had three more with affection of the larynx, the respiration being so difficult that I expected asphysia would come on in a few hours. To these I applied lecches over the regon of the larynx, and on the following morning, I found the respiration had become perfectly free and easy.

One of the three cases last reported is that of D-, labourer. This was the worst case of confuent small-por I ever witnessed in the whole course of my medical career. Ile was, in the early stage of the disease, attacked with great difficulty in breathing; his tongue, soft palate, phargnx, and laryox, as far as I could see, being covered with pocks. I applicd leeches at night, and on the following morning his breathing was perfectly free und easy. Ilis face was so completely covered with pocks, that I could not find one space over his whole face sufficient to lay on a grain of sand, which was uncovered by any pock. In this case I punctured as many pocks as I could myselt, and requested his mother and sister to puncture the remainder. He is now up and doing woll, and has not 2 wark on his face.-Lancet, July 12, 1851, page 30.

## ON THE USE OF COLCIICUM IN TIIE DELIRIUM AND COMA OF scarlatina.

## By Professor Bennclt, Edinburgh.

A boy, aged 14, entered the clinical ward on the third day after experiencing distinct rigors. There was restless deleriam, and constant moving of the head from side to side upon the pillow. He was apparenty conscious whea spoken to, but could not answer questions- the tongue was protruded with diffeulty, dry, and of bright red colour, studded with florid elevations-deglutition was mach impeded-botels open-pulse 130, weak-urine voided with difficulty, and diminished in quantity-sp. gr. 1025-not acted on by heat and nitric acid --skin hot and dry, covered with the bright red scawatinal eruption.Ordered salines and slight dieuretics. He continued in the same condition, the angina, coma, and alternating delirinm, however, being more pronounced unt the sixth day. Dnring this period, all the urine passed was carefully examined. The amount was diminished ( 17 oz . per day), but it was free from deposit, and unaffected by heat or nitric acid.
R. Sp. xther. nit. 3 iij ; pot. Acet. 3 ij; Tr. colchici $\bar{Z}_{3} 65$; Aquax $z_{3} \mathrm{ij}$. Ft. mist. A teaspoonful to be taken every four hours.
On the following day all coma and delirium had disappeared. IIe answers questions when put to him-skin cool-eruption faded-pulse 96, weakpassed 30 oz . of urine, which is turbid, with small flakes of a membranous character floating in it. Ou the 8 th day the quantity of urive execrated was 50
oz., And it was still mure loaded with sediments. On examining the urine with a mieroscope, it was seen to zuntain-1st, membranous flakes, composed of aggregatel rombled particks, apparently agglatinated tozether, and strongly resembling some furas of vegetable tissue-2d, rounded and irregular masses with apicula-3rl, amrphous mulecular masjes. The whole of these elements, on being analysel by Mr. Druman, were found to consist of urate of ammonia. Next day the urine was only slighty turbid, and on the following one, was perfectly clear. From this time the boy gradually recovered.

Commonlary. - Thit was a wry severe case of scarhntma. The angina was intense, oceasi shally reniering diglutiana impossible. There was delirium on the chird day, alternating at night with coma, which was often profound. The worst result was apprchended. It recurred to me that the head symptoms in this as in several cases of typhus, might probably depend not so mnch upon inflammation of the brain, as is generally supposed, as upon absorption of, and poisoning by urea, an idea that appeared to me suppurted by the diminished quantity of the renal excretion, as well as its freedom from all deposit. Remembering the alleced virtues of colchicum in increasing the elimination of this exeretion, I ordered it, in combination with diureties, and the result was remarkable. For on the next day, not only had the fever diminished, but the urine was increased in amount and loaded with urates to an extent and in a form I had never previously seen. It may be argued that the fever had terminated by a natural crisis on the seventh day; but I cannot help thinking that in this case natute wats assisted by the colchicum and diuretics. At all evente, this medicine seems to me worthy of more extensive trial in scarlatina accompanied by diminution of urine and head symptoms.-Monthly Jourual of Meel. Science. diggust.

## LATENT PNEUMONLA. By Dr. Lyman, of Derlin.

To Laemec, so far as we are aware, we owe the knowledge of latent pneumoria. He understood by that term the paeumonia that is developed in dying persons, that which accompauies certain forms of epidemic catarrh, and the inthmmation of the lungs, which is a sympton in sone eruptive and continucd fevers This cpithet was applied by Latanee, because under such circumstances, the rational signs are usually dhent, and the disease is only discovered by close cramination. If this form of paeumonia be adanitted, the above definition is evidently too narrow, since, on the one hand, lobular pneumonia must be placed in the same category, and, on the other hand, many cases occur under different circumstances from thuse meationad by Laennee, in which the existence of the disease would not have been ascertained but for exploration by the physical method. It would be better, if this name is still to be employed, that it should be linated to such cases as supply neither rational nor physical signs whereon to found a sure diagnosis. The following case is an example of Laennec's latent pneumonia, which was not detected until late:-

S——, an unmarried woman, sixty years of age, was the subject of very frequent pains in the stomach. If she ato anything not easy of digestion, pain was produced. Very frequently, however, it would occur without auy apparen: cause. She had consulted many physicians, some of whom had exaggerated the nature of the disease, while others had regarded her symptoms as imaginary. Early one morning (February 15th) Dr. Lyman was summoned to attend her,
for what she called called " inflammation of the bowels." The patient sas toss. ing about in bed, aud pointed to the right hypochondrium as the seat of pain. Dr. Lyman did not concur in the diagnosis. The bowels had not acted for 34 hours, although four enemata had been given. The abdomen was seft, not distended, slighty tender on deep pressure in the right hypochondrinm. The tongue was dry; there was slight nausea, wihout vomiting; thirst; the skin not hot; the pulse but little more frequent than usual, small and regular; the head free from ailment; the attack had not begon with rigors. A full clyster was administered, at the same time that a spoonful of castor oil was taken, and the bowels then acted. Itse pulse rose, the skin began to perspire. At the patient's desire a consultation was held. She continued to complain of the pain in the epigastrium, which was accompanied with nausea, and a painful sensation in the chest. The conclusion of every sentence she spoke was uttered in a kind of cry. The frequency of respration was in about the usual relation to that of the pulse, of one to four. There was no cough. Her attendats observed that she would lie perfectly quiet an hourat a tume, and thas her specch at these times would be matural. The physician called in consultation considered the case to be one of byatera, and accordingly prescribed an antinpa-modic draught of tofusion of Vatenan and Oh of Camomile. Thas caused suffusiou of countenance, and ancreased the rapidity of the pulse to one hundred. The patient remained in the same state for many days, it being inpossible to obtain any more definite indication of the seat of the disease. Any cxamination of the thoracic organs was oibsthately refuscu. "I ama zufeeated," was the anawer to the most precise questrons wath reference to the state of the respiratory organs. Six cupping-glasses were applied on the chest, and small doses of tartar emetic were administered. The condthon of the patient remained as alreads described; the pulse soft and small; the stim moist ; oppression at the efigastrium ; no dificuly of breathitg; no cough nor expectoration; gencral disiress. Ansther physician was consulted, who also regarded the case as bysterical, and advised similar treatment. On the fith day the patient complained of palpitations, sense of oppression in the region of the heart, masea, pain in the right hypochondrium, with beat of skia. Four lecehes on the proccordium gave some relief: A quarter of a grain of morphia, although repeated, did not induce sleep. On the following day the pulse was threadlike, the surface coverad with a cold clammy sweat, and the patient seemed ding. She revived under the use of stimulants, but leer cry was kill me, I an suffecating." It was cear that it was iupossible to proceed further vithout a thorough examination of the chest.

On the right side, from the fourth rib downwards, there was absence of resonance on percussion, and bronchial breathing. Dr. Lyman prescribed Liq. Ammon. Annisat, ten drops every two hours. The condition of the patient apparently inproved; the pulse nearly natural; the breathing quiet; the cxpectoration was free, and of a greyisli-green colour ; the torgue was moister; there was less thirst ; and sleep was easier. 'Tonards morning, on the cighth or nimth day of the attack, the patient had olight rigors. From this time the medicine occasioned eramps of the stomach, as did also small doses of ipecacuanha, for which they were exchanged. Ou the tenth day she put herself in a great passion, because, as she thought, her physicians did not visit her ofteu enough. Her case did not seem inmediately urgent, still less did it call for the attendance of three phynicians. In the evening Dr. Lyman found her in a state of geat excitewent, wihh hot skin, flushed countenance, and acute fever. She
was unmanageable, tearing of the cold wet cloths applied to her head, and was extremely restless, expressing all the while a fear that she wag going blind. Uuder these circumstances uothing could be done. After some persuasion, however, the patient became quiet, and full aslecp. On the following morning her pulse was eighty. The other symptoms were not improved. In the afternoon slight convulsions occurred; she became insensible, put her hand repeatedly to her head, and during the night was delirious at intervals.

On the morning of the 27 th she was unconctious, pastiug her stools involuntarily; the right side of the boily was paralysed; the arms nere flexed on the forearm; sensation was lost; the countenance annious, the bross knit, the pupils coitractsd and motionless, dicglutition dificult, the tongue dry, the mouth open, breathing stertorous, pulse 120. She continued in this state five days, and died on the the of March.

Sectiv calaveris.-The dara mater was adherent to the bone; the membranes congested; puriform effusion in the arachnoid, espucially at the base of the brain; the substance of the trais mach loaded with blood; all the ventrcles contained pus and serum.

The right lung wand atherctat to the pleura; the surface of the diaphragm was thickly concred with lymph. The lower and midale lobes of the right lung were in a state of grey hepatization; the upper lobe ocdematuss. The right lung and the heart were healthy.

In the abdemen nothing morbih was found ; but an abnormal pusition of the viscera was observed, produced by tight lacing.

Dr. L. gman observes that this case should be placed in the eategory of Laennec's latent pneunimia. All the usual indications of an affection of the chest were wanting. 'lhe disscction showed an extent of disease little suspected. The morbid appearances recred the pain in the right side and cpigastrium, to iuflamation of the diaphragm: the same circumstanee would also seem to decount fur a peculiar cry with which she finished every sentence after speakiag for sume time.-Caspor's Wochenschrift.

## case of epilersy treated by tracilcotomy.

 By W. II. Cone, Esy, Uxbridyc.[In the case of a boatman, suffering under an extreme epileptic seizure, after which he was left in a state of deep apoplectic coma with asphyzia, inspiration being performed ouly by seldom and short catches, whilst the veins in the head and ueck were every where visible, and greatly distended, Mr. Cane, after the patient had remained in this state ninetecu hours, determined to perform the operation of tracheotomy ; acting upon the suggestion of Dr. Marsinall IIall, that as the epileptic or other convalion inplied closure of the larynx with expiratory efforts, the attack of convolsive epilepsy would be prevented by that operation.]
"Feeling couvineed," Mr. Cane observes, "that the patient must sbortly expire, and that the root of the evil was in the closure of the larynx, I at once proceeded to open the trachea, a matter of no small difficulty, on account of the twisied state of the neck, the engorged state of the vessels, and the constant action of the muscles. The operation of tracheotomy was performed, and the tracheal tube is kept in the trachea to the present time. The relief to the patient was immediate ; the air passed into the lungs, the state of spasm sub-
sided, with the turgid condition of the head and neck, and the patient soon recovered his anensibility. This was not the only gratifying result: although the poor man had experienced his epileptic scizures in increasing violence during seven or cight years, and recently thrice a wcek, he hal, on April 1st, during iso months, had to return of then. Mure recent acculate of the pationt, who is now in Staflerdshise, cunfum the furmer regurt, the tubn is still k pt in the trachea, and the epileptic seizures have not recurred."-Lancet, July 12, 1851, page 35.

## singular case of cironic hidrocephalus.

On the 7 th ult., James Seott, of Elgit, died, aged 41. Ne was 3 ft 11 in. high. His limbs were of childlike proportions, but his head, which was twice the size of that of a full-grown man, was $11 \pm$ inehes long, $27 \frac{1}{2}$ inches round the brow, 15 inches round the bnck, and from the nape of the neek to the nose, 20 inches. From uuder the nose to the extremity of the cinin was 43 inches. Until one year old he had the appearance of other children, when at that age his head began to grow rapidly. He was never able to walk, and had to be tied in his chair. He could not help himself to foid, and never indicated that he wanted any. Ilis eye, which was very small and piercing, rolled incessantly. For a long period he had been subject to fits every uight, and for 30 years was bedridden. He gave no indication of my understanding, nud was sometimes speechless for two or three days. He seemed to have suffered great pain, for in the midst of his prayers he would break into paroxysilis of rafe, curse and swear without any object. When his mother's corpse lay in bed beside him, he took no notice of it. Ie had a luxuriant head of hair and strong beard. His parents had been well off in the town, but upon their death the deceased was taken care of by the parochial autharities till his death.

## SHMPTOMS OF THE FIRST STAGE OF PHTHISIS.

[From a Concise Practical Gude to the Physical Daagnosis of Consumption.]

> By Dr. R. Paync Cotton.

The following are laid down by Dr . Cotton as the signs of the first stage of phthisia.

Bulging of the infra-clavicular crigin, with increased or diminished resoanance.

Retraction of the same region, with imperfect resonance.
Imperfect expansion. Elevation of the thoracic parietes must not be confounded with their expansion

Increased rocal fremitus.
Increased distiuetness of the heart's sounds under the clavicle.
Jerking or rough inspiration.
Prolonged or bronchial expiration.
Pulmonary crumpling sound, or a few dry crackling rhonchi. The signs of bronchitis limited to one ar both apices.

In determining the importance of these signs, it mus* be borne in mind that expiration, as shown hy Louis, is, in a certain proportion of bealthy individuals, somerhat prolonged, and the vocal fremitus and resomance compratatively strong under the right clavicle.-Med. Times, April 19, 1851, page 431.

## SURGERY.

## on tile treatment of aneurisy by compression.

Dy Jullff Tuffell, Esq., Surgcon to the Cily of Dulhin Hacital.
EAlthuugh Mr. Tufncll, on the part of his Dublin professional brethren, does not wish to discard the ligatures, he still prefers pressure as the general rule in ordinary cases. He says:]
"I consider compression applicable to every ordinary circumscribed ancurism in an extremity, where there is sufficient room for the application of the compressing medium at !wo differcut pointe above the tumour, premising, of course, that pressure on the trunk of the vessel completely controls pulsation in the sac, thus proving that no high bifurcation exists.

I do not advise it in cases which are rapidly extending in sise, or where they continue to do so after compression has been tried. These aneurisms have no distinct sac ; and to afford any chance of saving the limb, the blood through the main channel must be cut offi and at once, by securing the vessel.
"I do not advise or sanction it in cases where the disease has been allowed to run on unchecked, where the limb has become cedemateous and suollen, and the surface of the aneurism a dusky, yellowish red. In such a case, the vein is most probably engaged, and if it be a popliteal aneurism, the knec-joint inflamed. IIere, I believe, amputation is the only resource.
"Understand me, then: compression I adrocate only in cases where the sac is entire, and where sufficient room exists for applying the pressure on two points of the artery above. At the ame time, cases have so frequently occurred where the application of a single instrument has been sufficient for a speedy cure (such, for instance, as one that I saw under the care of Dr. Huttci, where popliteal aneurism of a considerable size, was, in seven hours and a half, by means of a single instrument, constructed on Dr. Carte's plan, rendered completely solid), that, although, for prudence sake, and as a general principle, I adrocate the employment of two points of pressure, yet I by no means hesitate to employ a single instrument, and give the patient every chance, prepared at the same time to use the ligature, if any necessity arise."

In preparatory and constitutional treatment, Mr. Tufnell follows Dr. Bellingham. In selecting the instrument to be employed, he discards all but a conical weight from six to ten pounds, padded, laid upon the artery at the groin, and retained there by the patient's hand; with the elastic apparatus of Dr. Carte. In this appazatus, Indian rubber takes the place of, or rather relieves, the pressure of the unyielding screw; an important improvement, which, however, may be easily accomplished in various ways by those who do not possess Dr. Carte's instrument.

The author advocates such an amount of pressure as stops pulsation in the aneurism to the touch, in which case the ear will still detect the flow of blood into the sac. He urges us to employ the minimum amount of pressure with which complete command over the circulation can be obtained, with the view of obtaining a more rapid cure than when a wave of blood is peraitted to pass through the sac; although in irritable persons less pressure may be attempted, as aneurism is cured by a mere diminution of the current of blond through the tumour. Cases are also quoted, proving that when it has been necessary to suspend compression, a curative action still goes on. The temporary interruption to the current of blond appears to line the inside of the sac with a fibrinous deposit, which increases in thickaess and completes the cure.

It is an important question to determine how far the employment of conpression interferes with the subsequent application of the ligature, should it be required from the intulerance of pressure or increave of the ancurism. Of course a carcless practitioner might so injare the artery, that it would be dangrous to apply a ligature upon the part he had compresosd; but Mr. Tufnell quates from cases where an opportunty has betn aforded uf caaniang the limb after death, proving that no injury whatever wasiuflictal upon cither artery or veio, at the spots where compressiun was apphid. He quutes frum other cases, in which compression was given up and the ligature capluged, the presious use of compression in no way affectiug the operatian in its results.

That compression is an cffectual cure for aneurism, is proved by the fact that during eight years, the ligature has only been used three times in Dublin, either in hospital or private pracice, in two of these cases the aneurisut being traumatic. During this period, compression has been employed in 39 cases. In 30 of thena a perfect and complete cure was the result. In one, compression was discontinued, and the tumonr did not increase in size. In two, the ligature was used successfully. In three, amputation was necessary, the patient surviving in each instance. Three patients died; one from erysipelas, and two from discase of the heart. It is quite clear from the details of the eases in which amputation became necessary, that the ligature would not have lessened the necessity for cemoval of the limb; but, on the other band, would have almost certainly induced gangrene, and thas lessened the probability of saving the patient's life. The death from erysipelas occurred during a prevalence of this discase in the hospital, galvano-puncture having been employed, and the patient himself having unduly increased the amount of pressure.

The average duration of treatment in these cases, was twents-five days. The average of the eight most favourable cases was only twent-erght hours. In one case, seven hours and a half were only required for total soldafication of the content of the sac. There can be no doubt that, from the admession of a patient to the tume he leaves the hosptal, after the emplog ment of the hgature, a longer average stay that twenty-tive days takes place, and that a very speedy cure cannot be hoped for.

Statistical returns of the success of the ligature give the following results :"In Dr. Crisp's work are detailed the pariculars of 188 cases, where the vessel was secured for pophiteal or femoral ancurism. Of these-

Died from the effects of the operation............................... 35
Recovered after suffering subscquent amputation ....... .... ..... 11
Recovered after sloughing of the sac... ...... .......... ...... ...... 2
Recovered after mortification of the tees............................. 1
Recorered after bloughing of the integuments... ............. ....... I
So that more than the fouth of these cases cither terminatud fatwlly, or were maimed for the rest of life.
"Mr. Phillipo's expericnee and riscathes are the nest to be considered. They are thus quoted by Mr. Sturks:-"Mr. Dhillips collected 171 cases of aneurism affecting the luwer art.rics, which were sommitted to the Hunterian operation. Of thesc cases, 57 (or catactly wae in thruc) were unsuciessful, in which all the patients cscept too died, wot of the diecasc, but of the operation. Aztungst the successful cabce, secondiry hemurthage tuok piace fifteen times. Fifty-mine of these casce required ligature of the femoral artery, 3y of which

Were unsuccessful; thus giving a mortality of two in three.in the artery most frequently subjected to the operation.'

Mr. Norris gives a fuller report, his table embracing 177 instances ( 155 of popliteal, and 22 of fenural aneurism) where the operation was performed. He gives the eurgeon's name, the sex and age, situation of disease, its duration, period when each operation was performed, when the ligature came away; if fatal, the date and cause of death, with reference as to where the particlars of each case are recorded. There is, then, no getting behind this collection, no stating, in general termb, that statisties are wrong, and cannot be relied on. If truth is spuken in the first published details, it is re-echoed in Mr. Nurris's table.

> "IIe gives, I say, 177 cases, of which-
> Died from the effects of the operation ... ............................ 38
> Recovered after subsequent amputation... ... ...... ....... .......... 6
> Recoveted after suppuration of the sac ...... .......... ...... ...... 10
> Recovered after gavgrene of the foot.. ...... ....... ...... .......... 2

So that nearly one out of overy three cases operated upon, either terninated fatally, or were, to a certain extent, maimed for the remaiuder of their lives."
[These returns will doubtless assist in convincing the profession, that compression must become the general, ligature the exeeptional, practace in the treatment of aneurism.]-Brit. and Fur. Medico-Chrurg Reviev.

ACCIDENTAL ATD Complete evulsion of the globe of tile cis.
Dr. Verbaeghe mentions the following case in the Anuales d' Oculistipue:A fisherman of Ostend, returning home in a state of complete incbriety, full against the key of his door. The ring of this hey had becone sharp by long usage, and cut the upper lid clean through from the above donnaards. Eutering afterwards the orbit, it actal like a scoop, separated the eye from all the parts which attach it to its orbitar situation, and regukaly extirpated it, so that the organ went rolling on the floor. Strange to relate, the man was so intoxicated that he did not heed this frightful wond, and went to bud. His wift, on rising the next norning, was surprised to find that the husband had lost so much blood, and horrified at sceing the eyc on the floor. The man was taken to the hospita!, where the parts (a few shreds of conjunctiva and of the recti museles) sonn cicatrized and adhered completely.

## TREPIHNING FOR CARIES OE BONE.

M. Jules Roux, chief surgeon of the naval departmeat at Toulon, has published, in $L^{\prime}$ C'aion Medicale, a few cases which would tend to show that among the various racans usually employed to arrest caries of bone, trephining should not be rי. . .ted. Ine had eaployed the trephine at the base of the petrous bone, whin : : d been catious for scveral years. Whacn a circuiar picec of buthe had been waved, a deep cavity was laid barc, in which the index finger came in contact with the meninges. The case did well, and good results were also obtained in a second, where trughining nas used upon the canine fussa of the superior maxilla, after the soft parts had been dissected and :hronn upwards. Trephining is pretty frequentls used in this country for facilitatiog the removal of necrosed portions of bone, but seldom for mere carics,

SUCCESSFUL CASE UF IADUULIUN UF PREMATURE LADOER.
Dr. Chailly has published, in the Recue Medeco-Chirurgicale, the following instance of induction of premature labour:-Mrs. W-_ presents the peculiarity of a pelvis measuring at the brim only three inches of autero-posterior diameter. In 1847, the head of the child arrived at full term, became locked at the brim, and was removed dead with the long forceps. In 1849, the same difficult labour was icpeated, but the chid was extracted alive by the same means On a third gestation in 1851, Messrs. Malgaigne, laron and Desormeaur, called in consultation, dected that the present was a case proper for the induction of premature labour.

On the completion of the eighth month prepared sponge was placed into the os uteri at nine in the morning. Mrs. W-_ spent the day in preparing for her confinement, 100 k her accustomed meals, had a warm bath, and experienced not the slightest uneasiness. At five in the evening, the sponge was withdrawn, the eervix, thongh thick, was sufficiently dilated, and the membranes were ruptured without difficulty. A small quantity of amniotic fuid escaped, and no pain was complained of, Mrs. N-_ slept well, and had a slight discharge of waters during the night. She took her iseakfast comfortably the next moruing, and at half-past nine it was found, by makiog an examination, that the cervex was exactly in the same state as on the previous day, and no presenting part could be felt at the brim. She now took fifteen grains of ergot in three doses; twitchings were felt towards eleven; at half-past three very bearaole grindingpaius caure on, and succeeded each other with perfect regularity, so as to allow the patient to read and maintain the erect posture. At half-past five, Mrs. W-_ was spontaneously delivered of a lively little girl, who had presented with the breech. Mother and child have done extremely well, the latter having offered all the usual features of perfect viability.

## VICARIOUS MENSTRUATIUN OF A NOVEL KIND.

Dr. Lecointe, of Eu, in France, has pubished, in $L^{\prime}$ CThion Mradicale, a case of an extaordinaty description, of which we shall offer a brief outline. The subject is a servant girl, twenty-mine years of age, of apparently good health; she had never menstruated, and fór the last seven years had experienced flushings and heat in the face, these symptoms recurring every four or five weeks. At these periods sise lakewise complained of severe lancinating pain in the right thigh, and sometimes leg and fout, the whole limb then becoming extremely tender to the touch.

Towards June, 1842, these phenomena increased in intensity, the patient became very weak, the abdomen fele tense, ismpanitic, and she could no longer pass urine. Dr. Lecointe prescribed leeches to the hypogastrium, and prolonged hup-baths. Thr utine flowed a hitie; but at last the girl was persuaded to subinit to the catheter, and a large quantity of dull and foctid utine was drawn off.

Now began a scrics of strange phenomena; the bladder, uterus, stomach and rectun bagan to throw off what the patient called bulls, these bere pieces of membrane, or rather membranous casts, white, dense, and covered on one
side with gelatinous matter. The vesical casts were somewhat large, as she was obliged to extract them with her fingers. On a former examination, the internal organs of generation couid hardly be properly explored, as the hymen was unbroken, and rather tense, but the casts now came per vaginam, and the patient being cbliged to dilate the parts herself, in order to give passage to the membranous formations, it was found ou examination that the os was pervious, and the cervix of the normal size, though tilted backwards. Here the casts assumed a tubular shape.

The stomach became now very irritable, and a great abuncance of glairy matter, mixed with pseudo-membranes, thrown up. The vomiting was now and then of a purely sanguineous character, and in the coagula cjected an ascaris lumbricoides was noticed. The patient stated that she had likewise seen such parasites in the matters which had been expelted from the vagina. Diarrhoa supervened a little time afterwards, and in the dejections the same pseudo-membranous products were observed.

After a few weeks'respite, the symptoms recurred with renewed intensity; all the above-named organs secreted the same membranous products, but the uterus was evidently the most active. In one day Dr.Lec ointe extracted ten casts from the vagina; they were rolled up, and exbibited now for the first time a red colour. One of these presented on one side an infundibular shape, which made the medical attendant suspect that the membrane must have been formed in close vicinity to the Fallopisn tube.

The ejection of the casts was always accompanied by much pain, the latter being sometimes so intense as to cause the patient, who was far from being pusillanimous, to roll about in the bed withagony. The sanguineous flux was now suddenly transferred to the ears; these organs discharged each about a tumblerful of blood; vomiting of the same fluid came on a few days afterwards, and the casts were again ejected from the stomach, intestines, bladder, and uterus. When these symptoms had ceased, a great improvement was noticed; the patient gradually hecame stronger, and from 1842 to the present time, the girl has experienced no uneasiness but dysuria every two or three monthn, except in July, 1843, when the most complete relapse occurred. The author does not say whether any amount of regular menstruation has appeared since the casts are no longer secreted. This is a great omission. The pseudomembranous products were examined by M. Mialhe, and were found to be composed principally of albumen.

## SEPARATION OF the cervix uteri during labour.

## By Dr. Johnston.

In this case, a first labour, the anterior lip of the os uteri was much prolonged aud carried before the head. The pulse being frequent and hard, bleeding was resorted to, and belladonna was applied to the cervix uteri. About thirty-five hours after the commencement of labour, the head was suddenly delivered, under the influence of energetic pain; and carried before it a portion of the cervix uteri, separated in its entire circumference, and measuring at various patts from 1 to $1 \frac{1}{2}$ inches. Convalescence took place speedily; and the author learned that twelve months after this, the woman had beet delivered of a second child in ten minutes, her labour coming on without auy premonition,-Am. Journ. Med. Sc.

## PATHOLOGY.

## un the mordid ana funy oz chrunle llcerafion uf the RECTUM.

By T. B. Curlug: Esq., F. R.S.
My ingairies ato the morbd anatomy of the rectum have led me to rentark the frequency of ulceration of its mucons lining, not only in cases of dysentery, and as a consequence of the ortimary disease of the part, such as stricture and cancer, but as a separate affection. In several specmens wheh I have examined, ulceration was diffused over a considerable extent of surface. I have observed the whole of the lower part of the rectum stripped of its mucous membrane for a distance of two or three anches. This extensse disease is sometimes, indeed generally, attended whithekeniag and consohdation of the subjacent tissues, without diminution in the cahbre of the bowel. The mascular coat is in some instances hypertrophed. In one case, the mucous cont for a short distance within the sphaneter was so ruded with holes as to form, as it is described in the post-mortem brok, "a peifect cribritorm tissue," the submucous tissues beng at the same tune much thackened. I have seen the mucous membrane ulecrated in patches, the sound portions beng in some places detached from the muscular fibres beneath, so as to form bridges more or less broad, or mercly some narrow bands or brithes. There were frequently abcesses and fistelous passages an the thickened ussucs around the diseased rectum. In two instances ulceration had prodnced a perforated opening communicatiug with the peritoncum, death having been caused by the escape of some feculent mater into the abdomea and mifinmation of the serons membrane. In other cases the pentoneum was medved in the consolidation, and inflamed without being perforated, the oneutum in one case being adherent to the anterior part of the rectum.-Brit. and For. Med. Charurgratal Revicw, OctoLer, 1851.

## THERAPEUTICS.

## on the decompusivion of piosihatic calculi br solutions OF LEAD.

## My Dr S. Ellioll Hoskins, F. R. S., \&c.

[From cases which have occurred under his nutice, Dr. Hoskins says, that not oniy does the bladder, under irritation, tolerate the presence of solutions of lead, but also that they aet as sedatives, and exert a favourable infiuence, directly and indirectly, on the morbid secretion of mucus which generally, in such cases, exits. Dr. Moskins proceeds:]

After having made trial of most of the vegetables supersalts of lead, all of which act, mare or less, as unirritating decomponents, I have returned to the use of that originally proposed, the nitro-saccharate, as by far the most effective. That prepared for me by Mr. Garden, of Oxford Strect, is much more energetic as a chemical agent than my own, and equally mild in its physiologieal effects. It is likewise more decidedly an organic salt, which I consider essential to the fulfiment of the ends an view; and 1 am strengthened in the opinion that sugar is a necessary ingredient, from the perusal of two papers in the July number of the Pharmacentical Juarnal; one by M. E. Peligot, on the "Combinations of Sugar with Lime," and another by M. Barreswill, on the "Solution of Carbonate of Liue in the Saccbarates."

One grain of the salt, superacidulated with five dropa of strong acetic acid, is the proper proportlon for admixture with each fluid ounce of water. It is easential that the salt and the acid should be incorporsted before the addition of the water, and that the whole should he brought to the boiling point. Superacidulation is necessary on many accounts; it secures perfect solution, increases the decomposing activi'y of the liquid, and prevents the formation of any carbonate of lead.

As the salts contained in the urine tend to decompose the solution, a. l lessen its effects on the concretion, the bladder should be evacuated, and was.eded out with tepid water before the lead fluid is introduced. $\Lambda$ double-current caoutchouc catheter is the best for this purpose, as it enables a continuous stream to be employed; and as, on acconnt of its flexibility, it is less liable to irritate the urethra, which should be sedulously avoided. Frum four to cight fuid ounces of the solution may be thrown into the bladdr, at a time, and renewed every ten or fifteen minutes, as often as may be deemed proper. By reneving the liquid at short intervals, much greater effect on the calculus is cusured, than shen it is allowed to remain longer; for the precipitate furmed by decomposition eoon envelopes the stone, and puts a stop to further action, until a fresh surface is expased. Exercise during the tetcntion of the injection increases its offect. Some slight revulsion may be produced by the first introduction of this, or any other fluid, into the bladder; when such is the case, the operation should be remitted for a day or two, and cautiously renewed. The injection may be cither warm or cold, as may be most agrecable to the sensations of the patient. Warmth favours the decomposition of the calculus.

If used with proper precautions, I have found that the lead solutions exert a sedative and salu:ary an infuctice on the liaing membrane of the bladder, as as they do on external surfaces under infamation. They also act upon the mucus, which 's so abundantly formod in cases of this nature, cuagulating it into thort curdy flakes, which are easily passed through the urethra.

When the urcthra itself is intlaned, or abraded, the iujection aill be injurious; for the lining membrane of the camal is, I believe, more sensitive than that of the bladder. The introduction therefore of decomponents should be had recourse to, either befure lithotrity, or after the urethra has recovered from the effects of the instrument enployed, but can never be used, with any prospect of success, where organic disease of the bladder or prostate exists. The injection should not be employed during the internal exhibition of hydrochboric acid, although it may be freely used when nitric acid is administered. When the bladder is not very irritable, a dilute nitric acid injection, alternating with the lead solution, will hasten decomposition.

The two facts established with respect to the lead salts, viz., first, their toleration by the bladder; and, scooudy, their chemical action on calculous concretions, induce me to hope that they may become useful agents in the treatment of various other affections in the urinary orgais. I have never presumed to ituagine they would wove specific solvents for the stone; but, I trust that, where surgical operatoon is inadmissible, they will be of sone arail for relief, if not for cure, by smoothing asperities, and removing the outward phosphatic coating of caleuli, so as to bring them within the verge of the crushing foreeps; in short; that they may avail for partial, if not entire disintegration. The latter is more likely to happen where layers, composed of the urates or oxalates, are bound together by phosphatic cement. On this species of calculus, they are calculated to act as highly carbonated waters do on those of another description.
" Nor is the action of higlly carbonated waters," says Dr. Prout, "confined to their mere solvent effects; they undoubtedly possess disintegrating power; that is, the power of disturbing the attraction, both colesive and adhesive, by which the molecules of the calculi are held together, so as to render them brittle and easily broken into fragments." This is an additional reason for using decomponents before recourse is had to lithotrity.

Besides the kind of eases already adduced, there is one variety for which decomponents seem to be pecularly adaptedi: viz., concretions in the prostate gland. No instrument hitherto devised has been successful in dislodging them. The first case, however, mentioned in the present paper, gocs to prove that a considerable quantity of calcareous matter was removed from the prostatic portion of the urethra, by the use of the lead injection.

In the first experimedt communicated to the Royal Society, it was stated, that one hundred grains of calculus immersed in lead solution for forty minutes, had lost twelve grains. In the eecond experiment, the quantity dissolved, from a fragment weighing thlrty-seven grains, was, after half an hour's immersion, eight grains. Subseqent experience has verified the observatious, and proves that, under favourable circumstances, decomposition takes place in definite proportions; so that, from the precupitate of phosphate of lead, the quantity of ammonio-magnesian phosphate which has been decomposed may be securely estimated.

Since these circumstances obtain out of the bladder, by means of a fluid which can be burne by that organ with impunity, we may reasonably hope, that the mere transference of the scenc of action, from the exterior to the interior, will not materially affect the results.-London Journal of Medicine,. October, 1851.

## OIL OF PITCH IN TIIE ECZFAMA.

The French medical periodicals have of late spoken very highly of the efficacy of the oil of pitch (buile de Cade) in the treatment of eezema. Indeed, M. Devergie, physician to the "Hôpital St. Louis;" where diseases of the skin are especially treated, advocated the oil several years ago, and has lately taken an opportunity of stating that this "huile du Cade" should be preferred to the empyreumatic oil obtained in the production of coal gas, which has been highly eulogized by M. Lafond Gouzi. Dr. Neligan, in his work on Materia Medica, states that the "huile du Cade" has been used on the continent in obstinate cases of herpes, lichen, and ecyema, but observes that the term "huile du Cade" (oleum cadinum) has been restricted by some French pharmacologists to a tarry oil obtained by the dry distillation of the wood of the Juniperus oxycedrus.

## THE ITCH CURED IN TWO HOURS.

Dr. Bazin, physician of the Hoppital Saint Louis of Paris, introduced not long ago a notable improvement in the treatment of the itch, since he succeeded in curing the disease in tuo days by general frictions with thee sulphar ointment. Dr. Ilardy, who has succeeded Dr. Bazin in the Scabies wards of the same hospital, has, however, considerably curtailed this already short time; he cures his patients in two hours. The method is described as follows:-Patients are ne
longer admitted into the house for the treatment of the itch, as two hours suffice to render contagion impossible and the recovery ulmost certain. The patient is put into a warm bath, and rubbed for an hour with yellow soap; he then passes into a clean bath, where he continues to cleanse his skin for another hour. After leaving this bath he is taken to a particular rom fitted for the purpose, and, with the aid of one of his fellow-sufferers, he is rubbed all over for half an hour with the following ointment:-Axunge eight parts, flowers of sulphur two parts, carbonate of potash one part. After this frietion, the patient is examired and sent away cured, though sometimes pretty numerous vesicles on the hands and elsewhere remain unaltered. Dr. Harly states that out of one hundred cases he bas hardly had wo or three relapses. The number of itch patients has considerably diminished, as none are now turned away for want of roum; and the disease has thus spread with much less rapidity.

## PIIYSICAL SCIENCE.

## IODINE RENDERED SOLUBLE BY SYRUP OF ORANGE-PEEL and tannin.

M. Debauque mentions, in the Journal de Pharmacie of Antwerp, tist he has found means of keeping iodine in a state of solution, when added to mixtures in the form of tincture. The author uses, for that purpose, syrup of orange-peel, which answers the purpose perfectly. It was suspected that taunin was maiuly instrumental in this result; and this was rendered evident by puting a few grains of tamin into a quantity of water to which tineture of iodin had been added, and in which the iodine had of course been precipitated. The addition of the tamin caused the iodine to be immediately re-dissolved. Thus will the syrup of orange peel be advantagcously added to mixtures containing tincture of iodine, and tamin, to injections composed of water and the same tincture.

## a Smple process for preciptating the corton cuntanen IN COLLODION. <br> By Thomas Catlell, M.D., M.R.C.S. Eng.

A short time since, laseertained that on mixing bisulphuret of carbon with collodion, an inmediate precipitation or separation of the cotton sakes place, leaving a limpid fuid consisting only of the solvent and precipitant.

The cotton presents the same fibrous appearance as though it had not been in a previous state of solution, and as gun-cotton would do if simply immersed in water. When dricd (as much moisture as possible being first pressed out between folds of linen or bibulous paper) it caunot be distinguished from the dried pulp of the paper-maker.

This singular reaction of the bisulphuret on the collodion, would lead to the supposition that the gun-cotton performs the part of a base to the oxyde of ethyl (ether), for this substance is at once deprived of the peculiar properties which it possessed previous to solution.

It may serve also to explain more clearly the chemical composition of lignine, as acted on by nitric or nitrico-sulphuric acid.
[ Mr . Ceaig thus recapitulates the heads of the arguments he has advanced in a very interesting paper upon this subject.]
list. That heat and electricity are identical, as the one can be conserted into the other.

2nd. That a large volume of electricity surrounds every primary constituent oi matter, especially that form of matter which constitutes the gaseous bodies.

3rd. That animal heat is supported by the electricity liberated from the primary constituents of matter during the processes of respiration, digestion, and assimilation.

4th. That electricity is evolved during these processes on the same principle as that which is evolved during the action of a galvanic arrangement.

5th. That electricity and nervous power are analogous, if not identical; as the action of the one can be successfully substituted for the other.*

Gth. That the majority of diseases are caused either by the sudden abstraction or slow abduction of electricity from the body.

7th. That a low state of electric tension on the surface of the earth, produced either by the operation of eraporation or some occult movement in the * greatinternal currents of the earth, is the remote cause of epidemic and pestilential diseases.

8th. That oceasional and ordinary diseases are produced by the sudden abstraction or slow abduction of the electricity from the body, or its undue elimivation during the vital processes.

9th. Thas since electricity is so essential to the integrity of the vital operation, it is indispensable that measures be taken to promote ite coolution and prevent over-radiation.

10th. That eicetricity is the source of vitaity in vegetable life.
11th. That electricity is attracted by the fibres of the roots of the plants; ane by the instrumentality of the electric fluid does the plant extract its constituents from the soil.

12th. That vegetables of rapid growth require a large supply of electricity to secure their perfection aud eompletion; and the potatoe is a plant of this kind.

13th. That the disease in the potatoe was produced by want of nutrition.
14th. That the want of nutrition anose from defective electric agency.
15 th. That the cause of the deficiency of this agency was those abstracting influences which produced low tension of electriclty.-Mred. Gazelte, Oct. 10.

[^1]
[^0]:    - The drawings allostrative of these cases walibe hacribed when they are rubished whech we hupe to accumphoh with the concluding portion of this article in our aext issue.-ED. U. C.J.

[^1]:    - This conclusion is, in our judgment, not justified by facts. Neryous power cannot be transmitted by anything but nerve. Electricity may be frausmitted by a variety of conductors, organic or inorganic, and of these, nerve is one of the worst. Animals which evolve electricity are provided with distinct organs for this purpose. By nervous power, milk, urine, and bile are secreted from blood. Electricity, in any form, cannot produce these or similar iestilts. They resemble each other in traversing their ${ }^{2}$ respective conductors with equal rapidity; but this is not sufficient to establish their ideatity.-El. Gaz.

