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# The Cavada Lancet， 

 A HONTULY JOURNAL OFMEDICAL AND SURGICAL SCIENCE．

Yos．XI．TORONTO，NOV． $1 s \mathrm{r}, 18 ; \mathrm{s}$ ．No． 3. （1）rigimat emmmaicatians．

HISTERICAL RHYTHMIC․ CHOREA．

BY C．II．（UVI．RNIUN，M．D．，M．R．C．S．IAC．，IURUNIU．
（A paper read before the Toronto Medical suciety．
In Le Plo orres ．Medica：＇for February there appears a clinical lecture by Professor Charcot on a very interenting case of chorea，that he desiguates as Hysterical Rhythmical Chorea，or Chorea Major sive（iermanorum，in distinction from the Churea Minor of Sydenham．A translation of the（ase， 1 ！ am informed，has appeared in the London Latmect， hut as probably many of the members of the so－ riety may have failed to notice it，and several of the fatures are of unusual occurrence and interest， I propose translating portions from the journal above mentioned．Before doing so，it may be right to remind jou that the profession in the pre－ sent day do not universally recognize the propricty of the division－chorea majur，and minor－as only grades of the development of the same disease． Ziemssen，in an excellent article on the sulject in his＂Cyclopredia，says，＂it is my conviction that the group of symptums called chorea major is not a diseace sui scheris，but is only the product of genuine pychoses and cercbral maladies on the one hand，and of hysteria and wilful simulation on the other，such as so often and so abundantly flourish in hysterical ground at the period of pub． erty．＂That proteus hysteria，which is described under the name of chorea magna，contains in reality but one characteristic mark，and that is the， associated spasmodic movements which are often performed with a certain fitness，but usually have Ean extravagant and violent character．Bat we liave穊the same right to count all the associated spasms for hysterical patierits as chorea major ；the spasms変多 single extremities as well as those of the whole等body，those of the muscles of respiration，as well
as those of the larynx．By the same right，also，all those striking forms of associated spasm which are observed in insanity，epilepsy，cases of cerebral tumor．etc．，must be added to the species chorea major．Ziemssen further remarks，that he does not consider it as justifiable，to select a single group of symptoms from diseases of such varied claracter，solcly on account of its striking nature， and instances cases from his own practice in sup． purt of his views．I find also a case reported in the Medio－Chirursical Revieu for 1846 ，by an Italian physician，Dr．Dubini，where the same mus－ cles are always the seat of the convulsive move－ ments which are generally abo limited to one side of the body，and that the right side；the convul－ sions becoming more incessant as the derangement advanced，invading sometimes the other half of the body．In the Asylum for the Insane at Ham． ilton，there is a patient transferred there from either Turontu or London，I do nut know which，who fur years frum early murn to night，rutates the head and body backwards and forwards like a pendulum； which case probally might with as much propriety be viewed as the result of insarity controlling the will of the patient，as of the psychical disordet named chorea magna．On referring to Trousseau＇s clinical lectures，I find that he agrees with Profes－ sor Charcot in recognizing a distinction between the minor and major forms of chorea，the latter having little in common with St．Vitus＇dance，and thervfure is in his judgment correctly named hys－ terical chorea．I translate one out of many cases that he adduces in support of his view．In vol．2， p．262，I find the last of thee cases cited in illustra－ tion of the difference that he conceives to exist between the prodroma of the dance of St．Guy and hysterical chorea Cases showing that，however ！powerless may be the will to prevent the disurderly contraction of the muscles，it still retains over these muscles consentaneous action and compels their execution with a certain amount of regularity and harmony．If the patient advances，it may be，it is true，by jumps，but she follows without deviation the course she has laid out．If she wishes to carry her hand in this or that direction，although her arm may be agitated by convulsive movements， she arrives without trouble and speediiy，at the end that she wishes to attain．If she seeks to lay hold of an object，she succeeds at the first effort，with－ out failure．Once the object is seized she does
not drop it, and can carry it, or place it here or there as may suit her inclination. The following is the last illustraive case:--" I was called in con. sultation by my colleague and friend, Dr. Horteloup, to a young bady nineteen years of ase, belonging to a family of distinction. This young person, who had received a superior education, entertained sentiments of high morality and enlightened religio:s belief without affectation or pretence, possessed, in a word, of a well balanced mind ; and these intellectual and moral endowments were such that with her it was impossible to suspect any kind of trickery, or pretence, by the aid of which hysterical patients, one does not know why, appear to wish to impose upon those surrounding them and upon physicians themselves, when they can. This young lady had lost, eight or ten months before, her sister, to whom she was united by the most ardent ties of affection. Her grief was the more profound, that independent of the blow she herself experienced, she felt decply her mother's bereavement. From that time she had been seized with grotesque convulsive movements of the head, and superior limbs; neverthe less, when she came to Paris to consult Dr. Horteloup who had previously attended her, her melancholy appeared a little less gloomy, her natural vivacity in a measure resumed its wont, and she allowed herself to be diserted willingly from her painful thoughts. I found her with all the appearance of good health ; but her entire left side was agitated by violent choreic movements, to such an extent that there was reason to fear that she would injure herself by falling against the furniture or the walls of the room. If an attempt was made to arrest these movements, for instance by taking her hand, not only they were not arrested, but increased, and occasioned her a painful sensation, a state of general mataise of the most painful kind. There was however one method of calming as if by enchantment this muscular agitation, it was to lead the young lady to the piano; she could there remain one or two hours playing as correctly and as regularly as possible without losing the measure or missing a single note. Before us she executed with marvellous facility a most difficult piece, and this fact alone, without considering others, gave me sufficient proof that this form of chorea had nothing in common with the dance of St. Vitus." You will readily admit, gentlemen, that this view
of the profound thinker and most careful discrim. inator, Trousseau, in not lightly to be considered, but may we not fairly group among the factors in this case morbid thought, emotional evaltation, and excitement of ganjlionic nerve centres? The question however arises, is Professor Ziemssen strictly correct in associating wilful simulation with hysteria? That it is a frequent concomitant there can be no doubt, but is there not a little doult that frequently it is a functional disturbance of the nernots system attended with hallucinations in the sensory, and convul-ions in the moter tract, quite independent of all simulation? That it is, as de scribed by l'rofessor Jolly of Heidelierg, a general neurosis of the brain and spinal cord, and with much probability of the peripheral and sympathetic nervous system, having among its most inportant primary factors hereditary liability, a certain puchical constitution with a tendency to powerful and changeful emotions, and little strength of will, and promary anemia. Chiefamong the secondary causes, is faulty education. Hysterical mothers transmit not only the seed; of disease to their children, but also fwor its development by education and their own example ; the whole mode of feeling and thought transferring itself from continued inter. course. As in children, so also sometimes in nurses who have fur a long time attended hysterical patients, this so-called imitative infection is operative; or in other patients, who have been mursed beside such; and above all, in people who have been the accidental witnesses of an hysterical attark. This sort of infection, however, is only operative in such inciividuals as are already predieposed to hysterin. The older pathologists trace a close relationship in chorea to rheumatim and endocarditis, and buta small minority to traces of lesion of nervous sys. tem. English pathologists attach less importance to rheumatism than to endocarditis, and is seque$\mathfrak{l}$, i. c., vegetations pripcipally in mitral valve, occasionally in aortic. Drs. ()gle and Pye Smith give a number of cases illustrating these lesions. Kirkes considers that endocarditis is the cause of the chorea through the inflammatory products of the valves, which become mixed with the blood and disturb the functions of the nervous centres. Broadbent considers from numerous autopsies, that the corpus striatum and thalamus opticus are the locations of choreic irritation, particularly capillary embolism of these portions of the brain. Tuck
well report, the autopsy of a girl aged thirteen in and it i, only to careful chnical observation that we whom churea developed after rhemmatic fever, at can luok fur a discuvery of the unginal seat of the which was found softenng of the right midale cere- irritation. In Charcot's case the risht ovary was bral lobe and to a less extent of the left, without evidently the source of the choreic movements, demonstrable embolism. ()n the auricular surface certainly at leat, a subsidiary factor, and the proof the mitral valve there were numerous fine warty gless towards recovery at the time of the delivery vegetations; in the kidneys three arterial twign, of the lecture, had been expedted by alternate plusged with emboli. I)r. (iray reports a case of acute chorea with embolic thrombosis of basilar artery, both vertebrals, and both midule cerebrals. with softening of anterior and middle cercbral lobes, and dorsal part of the cord. Ir. F"os, in a case of acute choren, reports micrubiopic embolinm of corpus striatum and small vegetationson mital valve. Ziemssen also cites a number of (ierman authorities in favor of the cercbral nature of chorea. Of especial significance are the frequency with which rhorcic symptoms are unilateral, sumetimes in association with anesthesia of the skin, and the transition from bemichorea to hemiplegia, and the converse process of the development of hemiohorea from milateral palsy, as related by Charcot, Foote, Weir Mitchell, Hushlings Jackison and others. In hysteria, on the contrary, changes in the central nerrous system have failed to be discovered. The cases of M. Charcot, in which after lung continued hysterical contractions, scleros's of the lateral cul umns of the spinal cord was found, are viewed by Jolly as accidental complications, rather than as causative elements. One of the mont interesting features in the case lectured on by M. Charcot in his clinic, portions of which lecture I now propose translating, was the circumstance of the immediate arrest of the rhythmical movements of the trank and limbs by firm pressure over the right ovarian region. In obscure cases of this kind may we not look to local affections oi nerves as caasative influences? Lobstein thought he had ascertained the existence of inflammation of the great sympathetic, and to this source he refers many ubocure diseases, such as violent hesterical affections ; and dbercromby in his classical work on discasts of the brain, remarks, "We must forbear to speculate where we have not facts before as, but it appears extremely probable that there are disedses of internal nerves which may be the sumre of important morbid phenomena." I am fully aware, Mr. President, that it is a very difficult problem to distinguish betwen the phenomena of purely reflex action anci those resulting from incipient structurallesion ; imhalations of ether and nitrite of amyl. In Le La'll . IV diati for November, 1500 , there is to be lound another interesting case of reflex spmal irntation. The patient had been long treated for sever parovy mal cough without suce ciss, the jarusy,meseang' unly un l)ing down. An examination revealed an inverted and enlarged uterus. This orsan wis replaced, and kept in sifu by it pessar!, when the congh ceased at once. On remosal of the pessary the cough returned, and contioned until the fessary was is-xpplicd. When we remembar the intimate connection between the suaglionic and cerebro-spinal system of nerves; the third encephalic, with the ophthalmic ginglion ; the fifth, with the spheno-palatine and otic; and the sinth, as aho the eighth and ninth on their exit from the cronium, with the superior cervical ganglion ; the fifth, siath and seventh cervical nerves and first dursal, with the inferiur cervical ganglion ; the thuracic purtion of the sympathetic forming the greater and lesser splanchnic, the semi-lunar ganshon furmins plexuses with the abdominal viscera, and in the gandion $i m p a r$, resulting in pelvic plexuses, nervous centres, to, and from which, nerves procied; that in nearly every part, two kinds of fiures exist, the gelatinous and the tubular, the tubuhar dericed from the cerebro-spinal centre, the selatinous from the ganglion, need we be surprised in the face of such inter-penetration, and intimate cu-rclation, at the influence of the will, and of the passions of the mind, on the vareas involuntary functions; or that in chorea, hysteria and diseases where disordered nervotus actions occur, refed irritation may be viewed as a frecuent factor of the trutbite. The mind concentrated upon organs suffering from certain feelings of tension, and undasiness, calused possibly by some changes of circuhation, the strange anomalous symptoms result; the exact a $u$ modo, I apprehend, we are no more likely to determine than the way in which the nerves act on the capillaries of the cheek, in the paleness of fear, or the blush of shame. I)r. MarI shall Hall, in his work on the pathology of the
nervous system, recommends that in all investiga. tions we should divide the enquiries into the cerebral, the true spinal, and the ganglionic. Enquire -What is the influence of disease of one of these systems, or the other two respectively? In what order is that influence manifested? What are the effects of irritation, counter-irritation, of pressure and of counter pressure in diseases within the cranium or spinal canal? Why with similar symptoms have we dissimilar morbid appearances? Dr. Marshall Hall treats these various subjects with his usual ability and ingentity, but I think in the minds of a generality of his readers the question, ufter a perusal of his arguments, will still return: giten any set of symptoms, what is the lesion? Take for exmple of ambiguity of symptoms, spinal irritation. There is harilly a single disease in the whole category of ailments which may not be more or less acrurately simulated by it, and jet in a large proportion of cases the patient makes no complaint of uneasiness in the region of the spine. Dr. SicCall Anderson, of the University of Glasgow, in his lectures on clinical medicine, gives cases of simulated diseases of the heart, of the liver, of spasmodic stricture of the usophagus, of hys teria, of synchronous choreic movements some what analogous to Professor Charcot's case, all of which were relieved by treatment for spinal irritation. This protean form of disease, although occasionally met with in men, is principally a disease of women -debilitated, nervous subjects. According to Brown, the irnmediate cause is spasm of one or other of the muscles arranged along the spine, altering the position of the vertebre, or otherwise compressing the nerves as they issue from the spinal marrow. Teale on the other hand attributes it to congesion, which by continuance and repetition mas; so far impair the tone of the capillaries as to produce a state of actual inflammation ; while Radcliffe scems of the opinion that the opposite condition, viz., capillary contraction and bloodlessness, is nearer the truth. To this confusion in etiology the line of the Poet laureate may be applied:

> "Not like in like, but like in difference."

Notwithstanding the widely divergent opinions on the quo modo, the fact is well established that certain diseases, as hydrocephalus, epilepsy, hysteria and chorea, not only induce augmented excitability;
! bu which are physiologically under the influence and dominion of the excitomotory power. I)r Budd, in a paper on the pathology of the nervous sustem, remarks that in many cases of violent reflex, and even consulsive actions, there is $n$ ) sense of fatigue and little emaciation of the muscles, as fatigue is a cerebral state, and cannot be expected to orrur in cases in which the reflex actions are most observed: and emaciation is most obvious in spinal paralysis in which the rffexed arcs being interrupted, the reflex attons are alon precladed from taking place. With a brief notice, Mr. President. of Dr. Althaus' views of chorea, as expressed in a recent work, I will no longer monopolize time, that should be equally divided with members of our Society purposing to read papers. Dr. Althaus believes that the embulic theory of chorea is as yet unproven, and thit it utterly fails to explain those cases in which the symptoms of the disease supervene after fright or other mental emotions. He does not even consider the presence of a murmur as a positive indication of the existence of endocarditis, as it may be due cither :o anxmia or to irregular action of cardiac muscles. That it is sometimes owing to hyperamia of the region of the middle cerebral and of the corpora striata. I think, gentlemen, from the opinions quoted from the writings of the most eminent writers on the pahology of the nervous system, you will arrive at the conciusion that these painful nervous affections are much more frequently the result of functional derangement of cerebrospinal and ganglionic system of nerves, than from particular structural lesions of either. That in the psychical, motor and sensory varieties of hysteria, and in the most aggravated forms of chorea, the danger to life is almost nil, and that in those cases where port morten examinations reveal structural changes, it may fairly be freguently viewed as an open question whether these structural changes were strictly causative, or merely coincident.

## EXPULSION OF AN INTRAUTERINE FIbruid tuaior.

LY H. BREDIN, M.I., MILFORD, ONT.
Mrs. McK. aged 47 ; mother of nine children. the youngest of which is now 8 years old, first noticed derangement and irregularity of menstrua-
tion, in the Autumn of 1873 . A sanguineous discharge made its appearance every two or three wechs for a time, and then continued to increase in froquency, until the Fall of 1874 , when hemorthabe came on every few days, and in spite of the usual treatment with tonics, stimulants, and astringents, accompanied by elcvation of the hips, sc., the patient rapidly became worse. Fearing the existence of some eaciting cause of the hemor rhage, I thoroughly explored the vagina with a bladed speculum, but made no discovery whatever, except thit the parts exposed to view were healthy, and th.t there was no dilatation of the os uteri. I then resorted to the use of errot, giving 8 drops of the flaid extract every + huurs, during that day and night, hoping that the henorrhaye might thereby be arrosied. Disappointment meeting me at every turn, I asked for a consultation. Dr. Morden arrived early in the morning. After making a digital examination pro agimam. he requested me to do the same. I did co and fuund the os laricly dilated and some body having the feel and consistency of a tumorpresenting. After a few moments. consaltation we decided that the case was one of intro uterine fibroid tumor. We at once proceded to pass a ligature about the tumor, but our most persistent efforts failed on account of the rigidity of the os, the powerful contractions of the uterus when manipulatins, and the shape and attachment of the tumor itself-the neck being very large and attached to the fundus. Dr. Murden prescribed cannabis indica, which arrested the flow and caused the tumor to recede slightly. Matters remained in about the same condition until March of the present year, when hemorrhage came on again in a more violent form than ever before--completely blanching the patient. The tumur increased in dimen, ions very rapidly until June Izth, whan Dr. Evans of Kingston, Dr. Morden and myself, met in consultation and alopted a line of treatment. consisting of tonics, and the application to the protruding portion of the tumor of a tampon, saturated with a solution of perchloride of irun-the tampon being introduced through a glass speculum. Our object was to arrest hemorrhage and produce atrophy. This treatment was faithfully carried out until the 23 rd, when the flowing returned to an alarming extent. On my arrival at the house of the patient, limmediately prepared a solution of he perchloride of iron, and by the use of a female
catheter succeeded in injecting a portion between the tumor and the walls of the uterus. This arrested the fluw at once; I then returned to the tampon and pursued the line of treatment already described, until the 28 th, when the patient and her family became completely discouraged and gave up ail treatment. Apparently in despair she asked me why we could nut give the medicine which we uned at first, "or that which forced the tumor so;" I replied that I would give it pro,ided she and the fami.'y would assume the responsibility. They at unce consented and I put her upon 20 minim doses of the fluid extract of ergot every tour hours.

July ist. But slight pain yet; tumor coming down; lips of the os very rigid; iomiting every hour.

July 2 nd. Not much pain till atternoun; romiting continues. Steady bearing down ; not satisfied with duse, asked fur more medicine. Treatment to be continued.

July 3 rd. Made infusion of pulv. ergotie -jiii, hot water $\bar{j}$ iv, and administered a tablespoonful every hour, gradually increasing it to two tablespoonfuls. I then made an examination of the tumur and discovered that it was becoming dark in appearance.
July fth. Vomiting, pain and bearing down all day.

July 5th. Pain and bearing down continues, os becoming soft and dilating.

July 6th. Tumor becoming futid at anteriur surface.

July 7th. Symptums of peritonitis all day. Gave one grain of pulv. opii every 4 hours, and applied but fomentations to the abdomen. Removed a portion of the anterior surface of the tumor with the thumband finger and broke down the attachment abuve the posterior lip. I ther passed ny hand to the body and fundus where I found it adherent to the extent of abuit 3 inches to the posterior wall, but was afraid to separate the adhesion.

July Sth. Having prepared a solution of perchluride of iron and some brandy and ammonia, I placed the patient upon the table and introduced my hand into the vagina, and passing it up to the attachment of the tumor, proceeded to break down the adhesion with the finger. Finding a firm ropy adhesion, I seized it with the thumb and finger in search of an artery. Finding none I
broke it off. Being satisfied that all was seprarated, with the aid of a pair of bullet forceps, I succeeded in grasping it and bruging it away. The tumor was about the size of a chald's head at $S$ months. I then injer!, w the perchla, ride and put the patient in bed. Heavy challs with oppression abuut the heart followed; crdered bottles of hot water to the feet ; hot fomentations to the bowels: and gave some brandy and ammonia internally. After reaction came on, I gate a teaspoonful of infusion of ergot and repeated it in half an hour : dso ordered a weak solution of carbolic acid as an injection twice a day. At Dr. Morden's suggestion, I subsequently used permanganate of potash as an injection with the most beneficial effects. She is now tahing citrate of iron and quinine, and is doing well.

The above case shows the bencticial effects of the combined local application of perchlunde ot iron, and the internal administration of crgot in the removal of tibrutd growths.

The continued administration of the ergot not only reduced the size of the tumor to some extent, but also brought it within the reach of manual interference, and the woman delivered from her perilous situation. The patient is now well and strong, without any symptoms of the return of the disease.

TRANCLATIONS FROM FOREIGN IOLRVシI.

## (From Le Prosres Medical.)

BY C. W. CUVERNTON, M.I., M.R.C.S., ENG. IUKUNIU.
Presence of Ifvphatic Gangimenc mrawffe the Biajder and Rectim-Teeerlolocs engorgement of thene gavgions.
M. Lannelongue, presented (Surgical Society Sept. 17 th), a pathological preparation from a young child who had succumbed under treatment for tuberculization of the urinary passages. At the commencement the child manifested only acute pain in urinating. The exploration of the bladder made on two occasions, evidenced satisfactorily that there was no question of calculus. By the ectal touch, there was only to be recognized at the level of the prostate, a soft and fluctuating tumor, which was nothing else than a tuberculous
abscess surrounding the neck of the bladder. The child died with all the accompaniments of a purulent esstitus, and a conse tive nephritis. At the autopss, there was fuund in the prostatic region of the urethra, an antractuose cavity covered with tuberculous products, and in sia, capable of admitting a small nut. The kidness had been equally infiltrated with cascous deposits. But the most interesting lesson consisted in the presence of scien cores, or nudes, hasing each the volume of a shriselled peal, and situated in the connective tissue, which separates the rectum from the base of the bladder. One of these cores corresponded arctly with the embouchure-or mouth of the ureter. Histulugidal examination proved that these cores were veritable lymphatic ganglions, lee ome caseous. M. Lannclongue has made other resarehes on this puint of anatumy, and in the case of another chiid who had no lesion of the urinary passages, he found also six ganglions, situated between the bladder and the rectum. M. Lannelongue, considered the prenela.e of these ganglions could casily explain the formation of certain abocesses in the superior pelvi-rectal space. An excoriation of the mucous membrane of the bladder. or a lesion of the urinary passages, would provoke adenitis in these ganglons; this would terminate in suppuration, extending to the cellular tissue of the neighborhood. M. Iuplay, confirmed the anatomical ideas that M. Lannelongue had expressed. In his dissections he had often met ganglons situated in front of the anterior face of the rectum. M. Lucus Championniere remarked hat the new facts communicated by M. Lannelongue, resembled those that he had observed in the arrangement of the uterine lymphatics, and of the ganglions of the broad ligaments. These ganghons only become apparent to the anaromist when the lymphatic plexus of the uterine mucous menbrane is diseased. It is in these cases that pathology comes in as an aid to the study of Anatomy. M. Després, has observed daily an abscess of the superior pelvi-rectal space, in the case of a robust patient. After attentive observation he remains persuaded that this ahscess had for its cause adenitis. The patient presented as the first sympton, retention of urine. M. Després, rather ridiculed the doctrine of Dolbeau, who taught at the Faculty that nine times in ten, abscesses are consecutive on lymphaginitis.

## HYGIENE IUAS FSCOIAS.

b) Jusimi Wurkman, m. d., turonto.

L'nder the above heating, (hyg:ene of schools,) the "Giacta IMedica da Bahta." has presented a series of very valuable articles, the whole of which we might very profitably to our own educationists! and their pupils, reprofluce did the due apportion-! ment of our space permit.
We must conline our present notice to a few extracts from the linal article which we find in the July number of the Gazcta, in which the subject, of Myopta, as a very prevalent ophthalmic affection in the schooin of burope and the linited states, is well illuatrated by statistics furnished by various eminent authorities.
No perso: who has resided in our City for ans lengtiened period, c in have failed to note the unpleasant fact, that it is hardly possible to walk a hundred gards, atong any of our principal thoroughfares, without meeting one or more young persons, mounting either spectacles, or some other form of eye-helpers; and any one who can look back 40 or 50 years, mut be struck with the contrast in this relation, between the present time, and the era when common and superior schools were few and far between. We translate the following extracts from the Portuguese :-
"In (Vermany, Austria, Switzerland, the United States, France, and even Russia, ophthalmologists have t.aken under serious consideration the study of the causes which contribute to the production of my upia in schools. Hermann Cohn, is one of the investigators, who has most distinguished himself in this difficult and pratience-demanding stady. In 1866 he examined at Breslan 7,568 children in the various schools, and he found among them 683 m!opis, or 9 per cent. Comparing the number of myopes of different classes, he found :hat the proportion augneented from the lower to the higher classes of the scholars. Thus, in the elementary schools of the city, the propertion of the former to the latter was as 2 to 8 and 9 per cent. In 1865 he extended his investigations to 10,000 children, and found in the elementary schools in the city, 6 per cent of myopes among the males; in the intermediate schools 9.9 per cent.; and in the gynasiums and superior schools, 23 per cent. Eristnann in 1871 , wrote the listory of the development of myopia in St. Petersburg,
based on an examination of 4.358 students of both exes. Among these there were, in the male sex 31.1 per cent of mypes, and in the female sex 27.5 per cent. The inferior class presented 13.6 per cent, and to this succeeded 7 classes, in which the number of myepes augmented in aseending pro gression, reaching in the highest class +2.8 per cent.

Von Reus, at Viema, in 1872 and 1873 , examined 8:8 students of diverse schools, and verified the fact that the number of myerer aus. mented from the inferior to the superio: classes, from 28 to 48 per cent. Hugo V. Hoffiman, pro ceeded in Vienna, in 1873 , in the same investiga. tion, and found in the elementary schools, in 568 children, 67 mypes, or 12 per cent; in the superiod schools, in 403 children, 83 mypes, or 20 per cent; in the gymnasium, in 256 , he found 97 , or 37.9 per cent.

In Priedreic h's gymnasium, at Breslau, Cohn also found a progressive augmentation, in the number of myitos, from the inferior to the superior classes, from $12 \mathrm{u}_{-}^{-}$to 60 per cent; und always. the higher the class, the higher was the grade of the myopia. ()tt and Ritzgmann, in 1874 , examined 122 students of the gymnasiums of Schaffhausen, and
 5 per cent in the in ${ }^{2}$ erior classes; 27.5 in the median, and 67.5 in the superior. Mryopia
 furior classes; 58.8 in the median ; 11.8 in the superior. Maklakoff, in Russia, found 24.4 per cent of mupes in the inferior class of schools, ard 43.5 in the superior. Schultz, in the gymnasium of ${ }^{\circ} \mathrm{issala}$, in 43 r students found 36.1 per cent of mjuches. The proportion in the inferior class was 14 per cent, and it ascended to 54 per cent in the superior; the grade of myopia was most strong in the superior classes. Kruger, in the gymnasium of Frankfort, found that the proportion of myepes rose from 4 in the inferior, to 64.5 in $t^{\prime}$.e superior class; and the grade of nyopia also augmented from the first to the highest class.

In the United States, the investigations have given results no less conclusive. In Cincinnati, New York, and Brooklyn, the eyes of $\mathrm{I}, 440$ pupils were examined by Drs Williams, West, Cheatham, Matthewson and Prout. In Cincinnati, in the primary, intermediate, normal and superior schools, 630 were examined. In the primary, in 209, 10
per cent were myopes; in the intermediate, in 210 there were 14 per cent; and in the superior, the proportion was 16 per cent. In the New York College, 29 per cent in the inferior, and in the superior, 53 per cent were myopes."

The writer then proceeds to state that in South America, the number of short-sighted children is also great, and he points out some defective arrangements, as to the quality and quantity of $i$ light afforded to scholars, the unsuitable construction of desks, and seats, inadequate ventilation, $\mid$ \&c., \&c.

We were fully prepared to learn that impaired of lValkesbarre had treated her case throurhout eyesight is a very common trouble in (iermany, with remarkable skill and judgment. Her comand other countries in which books continue tolplxion was of a deep bronze huc, hearts action be printed in the old barbarous gothic type. Nolfeeble; wdema of face, palpitation and dyspnœa; orie who has ever striven to become acquainter! veins varicose in lower extremeties, complains of with the (ierman language, and has been obliged to debility; tissues evidently wasting; vision imread it by gas or candle light, will question the /paired; discolored patches of skin; white adnata; fact, that it is very severe on the eyes. Some but little doubt could exist of the case being one years ago, we were well acquainted with a very of morbus Addisonii. The right kidney could be amiable and studious Lutheran clergyman, whose \| easily felt detached as a circumscribed mass in the eyesight utteniy failed him prematurely. He ad- abdomen; slight disturbance of intellect from ceremitted that he read much after night; but he was / bral hyperemia. She states that while travelling in too ardent a iover of fatherland, to lay the blame Palestine some years before, she fell from a camel's to the real cause of his affliction. It is truly/back, and believes that she was much injured marvellous that a people so strongly characterised | thereby; has resided chietly in malarial regions. i) g gnod sense and superior culture, should stupidly persist in the retention of an antiquated and hideous alphabet, which almost practically shuts them out, or rather shuts them in. from easy literary intercourse with other civilized nations. Perhaps. by the time that nine-tenths of them become short. sighted, they will begin to gather common sense, and permit their children to learn to read at less cost than the early ruin of their eyes.

## CASES IN HOSPITAL PRACTICE.

By theophilus mack, m. d., st. Catharines.
(Reported by F. S. (ireenwood, M.I.. Ifouse Surgeon.)
At a meeting of the "Medical Society for Mutual Improvement," St. Catiarines, held at the rooms of the Society, on September 3rd, the following cases were submitted:

Dr. Mack reported an instatice of death from UREMIA,
which appeared to him of extreme interest.

A lady was placed under his care with this history. Eight years previously when residing in Western Virginia, under severe mental affliction, she suffered from puerperal convulsions and miscarried at the end of eight months; after recovery she remained some time pallid and anasarcous | with urine albuminous. After a years treatment she recovered perfectly, but with a foating kidney of the right side. She afterwards occasionally suffered from hamaturia, malarial neuralgia and uterine congestion. She was 40 ; had not menI truated for two years. Her physician Dr. Mayer of Wilkesbarre, had treated her case throurgout easily felt detached as a circumscribed mass in the A few days afterward, I was summoned in haste to find her in epileptic convulsions ; the first seizure in a few hours was followed by another, and so on until coma, and death closed the condition of the sutferer. A post mortem examination was made at her former residence with the following results, which were communicated to me by Dr. Mayer.
"As time was rather pressing, I did not examine the brain, convinced as 1 was that the bran lsymptoms were merely secondary and the result of uramic poisoning; nor did I open the thorax, as I had every reason to believe its contents to be organically norn.al. The liver was not enlarged, not organically changed, but simply engorged. The gall bladder and its ducts, normal; the spleen of even less than the usual size, and unaltered in texture. The stomach and intestines presented no unusual appearance, and t! : uterus and ovaries I were small and not discenserl. The same may be said of the bladder, the oo... of which were not even thickened. The ris!i kidney-the so-called floating one, was firmly fixed in its abnc :....l
position by peritoneal bands, the ureters and the blood vesuch enlarged, and its whole structure with that of its supra-renal capsule, so altered as not to be recognisable. The mass was $8 \frac{1}{2}$ inches long by 5 brond, and about $31 / 2$ thick, weighed 2 lbs . and 2 ozs. avoirdupois, and looked like a huge bunch of California grapes, being covered in every direction by reddish or purple cysts. These contained a dirty albuminous liquid; s me of them weighed two ounces, some a few drachms. Upon section, a slight rim of true cortical substance was found around a purtion of the pelvis, half an inch in width, and the remaining structure of the mass consisted of cysts, similar to those seen externally. The comnective and fibrous tissues seemed to be destroyed, and it was almost impossible to dis tinguish between the kidney and the cipsule. There was no carcinoma, and no cascous deposit to be detected in this mass.
The left kidney, disease of which had not been suspected, until of late, was in situ,-was 8 in . long by $4 \frac{1}{2}$, weighed 2 lls. avoirdupois, and presented externally, and upon section, frecise'y the apparance of the other. It was impossible, owing to the condition of the adjoining parts, to trace the sympathetic nervous condition of the region, as the pressure of these huge masses had obliterated all such, or at least destroyed the evidence of their condition.
There did nut seem to be enough remaining kidney structure in both of these organs, to have secreted or even to have permitted the drainage of an ounce of fluid daily, and yet our patient, the last time I examined her urine, about two weeks before she came to you, was secreting about two pints daily of straw colured urine, sp. gr., 1022, without albumen, and apparently with sufficient urea and water."

## PERIOSTITIS wITH OSTITIS-DEATH FROM

 SEPTICFMA.Georye Stevenson, æt. 32 , ummarried, native of Scotlan 1, lab.orer, was admitted on May 3 rd, 1876. He had always been a healthy man. In iS68 he contracted syphilis in Scotland. He states that the primary symptoms appeared 12 months after expoStre, and that he immediately sought the medical aid of Dr. Campbell of Giasgow, who gave him iodide of potassium and mercury. Six months after, secundary symptoms appeared, which were
also treated by Dr. Campbell. He continued the above treatment whenever any syphilitic symptoms would appear.

On the 5 th of February, r974, he was kicked by a horse just above the right patella, outer side. The part swelled so much that he was obliged to undergo treatment in Staunton, Virginia. Liniments were applited which reduced the swelling but left the leg rather stiff ; two months after it swelled again for which he received iodide of potassium, and wine of colchicum. This relieved him for a short time, but the swelling returred again in a few weeks and has been troubling him since. He applied fly blisters of his own accord, one over the middle of the thigh and one over each condyle of the femur ; these gave him some relief. Nov. 19th, 1875, he applied tincture of iodine about two irches above the internal condyle every other day; the skin became very tender, suppuration took place, and pus escaped. The leg, by this time, was so troublesome, he became unable to work, and entered a hospital in Philadelphia where he remained two months, the improvement being very slight. He then entered the Presbyterian Hospital, New York, remained there three weeks, and was removed to a hospital on Ward's Island where he was treated by the injection of dilute carbolic acid as a spray into the opening of the thigh, two inches above outer condyle. He remained there until April $24^{\text {th }}$, 8 86, when he left for St. Catharines to obtain work on the new canal, but when he arrived here he was obliged to enter the hospital on account of his troable increasing. The symptoms on admission were pain in the thigh and a discharge of pus from siuns in front and behind.

May 4 th.-Dr. Mack made 2 incisions; one an inch long on the inner side of the thigh, and the other one and a half inches long on the outer side. Into these, probes were introduced for the purpose of detecting diseased bone.

May 5 th. -Searched for diseased bone with a vertebrated probe, but did not detect any. Bowels being constipated, two compound rhubarb pills were ordered.

May 6th.-General health good; appetite voracious. Diseased bone was again sought for but could not be detected. Inflammation of the periostium was diagnosed, and iodide of potassium and hydrarg. perchloridi ordered.

May ${ }^{\text {thi.-Not fecling as well to-day as usual, }}$
due to surgical fever having set in ; the following 'of the straight jacket. Sinuses ordered to be in was ordered:

16 Quinia Sulph 3 ss.
Ac. Mur. I)il. q. s.
Tinct. Card. Co. $\overline{5} \mathrm{j}$.
Spts. Eith. Nit. 今ss.
'Tinct. Camph. Co. Bij.
Aquae ad $\tilde{\mathbf{s}}_{1 i j} \mathrm{M}$.
Sig. - $\overline{3} s \mathrm{ss}$. ter in die.
Two compound carthartic pills were ordered, at night, and two in the morning. Une small piece of bone came away to-day.

May Sth.-Much better to-day did not sleep well last night.

May gth.-Openings in the thigh nearly closed; slight discharge. Complains of pain in the chest, courh and expectoration of blood, which undoubtedly came from the posterior nares. Several small pieces of bone came away to-day: Turpentine fomentations were ordered to be applied to the chest ; pull: Doveri grs. $x$. at bed time.

May' oth.-Slept well last night ; suffering from severe headache and slight fever; bowels consip.ted for which an enema of warm water was ordered; discharge from leg, slight.

Mray 14th.-Much better to-day; rested well l.ast night ; enema operated well.

May zth.-Suffering only from headache today; was ordered quinine and Dovers powder, one every four hours.

Nfay $13 \%$.--Severe salivation supposed to be induced by pil. cath. co. of May $7^{\text {th }}$; patient very much reduced in strergth; stimulants were ordered. Temperature $101^{\circ} \mathrm{F}$. pulse 98 ; respirations $24 \frac{\mathrm{I}}{2}$; tongue whit:sh and dry; face livid; skin dry : diarrhce 2 , and delirium. A gargle of chlorate of potash was ordered, and the patient put upon irom, quinine and strjchnia.

May $x$ th. -Is very much better; diarrhrea is slight; salivation abated; leg looking better.

May 55th.-Salivation ceased ; fever has abated; suffers from slight headache to-day. Pulv. ipecac co-ordered to be continued, but to alternate with the administration of Mc.Mums' clixir of opium.

May roth.-Was very delirious yesterday afternoon ; complains of pain in the left shoulder to-day, which is the result of falling out of bed. Appetite improving ; bowels open.

May 5 7th.-Free discharge from sinuses ; violently delirious last night, required the application
jected with warm water.
May ISth.-Slept well last night ; strength is ! much reduced ; quinine misture discontinued, and quinine and lovers powder substituted.

May 19th.--Temperature $103{ }^{\circ} \mathrm{F}$; ; pulse $\mathrm{H}_{5}$; very low; was very delirious last night.

May 20th.—Patient is failing every day ; delirium continues. Will take very little nourishment of any sort ; bowels constipated; an enema of castor oil and turpentine was ordered to be administered at once ; chloral and bromide of potassium were ordered every four hours.

May zest.- Became conscious at in A.M. and said he was suing to die; he expired at I m. 20 A.m.

Sectio (iddaierts. This was performed by Drs. Copeland and Greenwood eight hours after death. Brain normal, pia mater congested : lungs healthy; extensive plauritic adherions were present on the right side. The cavities of the heart were filled with dark flend blood; no clets present ; vessels of heart very much distended ; no organic disease of heart. Abdominal viscera bealthy. A portion of the femur six inches long was removed and ex. amined. The periosteum was very much injected, thickened and easily separated from the surfare of the bone. The whole shaft of the femur was diseased, the part most afferted being from a fers inches above the condyles, upwards for about fcur inches, its largest circumference being six inches. It presents only one simus which does not enter the medullary canal, (sinus is as large as a crow quill.) The compact portion of bone is very much thickened, and measures one inch from the external surface of the bone to the medullary cavity encruaching so much on the cavity, as nearly to obliterate it.

## EIAPHANTIASIS GRFCORUM.

History,-Thomas D. Scott, xt. 3 S ; confectioner, born in Quebec; was admitted into the Hospital on the 22 nd of March, 1876 . Up to January 187 o, he had always enjoyed good health, only previous diseases being remittent and intermittent fevers. He was a man of good habits, and had worked in many of the principal cities of Canada and the United States; the farthest south he had been was Memphis, where he stayed three months, during which time he worked ' at his trade. While there, when chopping kinding
nood the axe slipped and cut his keg, and being wreless, and wearing damp stockings and poor shoes, inflammation set in. By careful treatment he finally got well, but whenever he had cold or damp, feet it seemed to affict his legr, which would uccasiomally ulcerate. After several such attacks it again broke out in January $18 ; 6$, becoming so , evere as to prevent him working. He began then to treat it himself, using patent remedies ; secing no improvement he sought medical aid in the National Institute, Indianap olis; after remaining there three or four weeks without deriving any benefit, he returned home, and sought admision anto the sit. Catharines General and Marine Hospital.
Simpoms on Ammion - (ieneral health poor : left leg (upper "s.) and fout very much inlarged, the lather was studded with im.il round tumn the size of a pea, of a lisid or purple hue : the lower third of the leg was enciticled by an extensive sore.
Marih 25th.--( Deum morrhue was administered: and $\overline{0}$ of the syrup of iotide of iron and yuin.ne. in ahule water three times a day aloo the folluwing:

> R. Acid Buracic 3 j Adepis $\equiv j$.

Misce fiat Unguentum.
Gencral health improved up to April zand, when slight consippation was comphained of, which was relieved by ol. ricini $\mathrm{a}^{\mathrm{s} s}$.

April $2{ }^{3}$ rd. Having been disturbed in hisevening rest for a few nights by noise in the ward, produced by an unmanageable patient, and being informed of his only hope of recovering, io., ampll. tation, he became very restless, and began to fail in health. 'ut by removing him to a sejarate room where be might enjoy perfect silence and gool rest at night, he rapidly improved. In the meantime 3 grains of quinine were ordered three times a day, also 4 to 6 ozs. of sherry wine daily.

April 2-th. --Feeling very well, pulse normal, atc. To day being the day apointed for the operation, it was accordingly performed at $12.3^{0}$ P.M. ; the limb was amputated at the junction of the lower with the middle third of the thigh. The operation was performed liy 1r. Mack, assisted by Drs. Con:fort, (Goodman and Copeland. Duriag the operation the atomizer was in action, emitting a wapor of carbulic acill, which diffused itself through the atmosphere of the room. After
applying the necessary sutures and adhesive plaster, the stump was dressed with dry lint; placed nest to this was lint and cotton soaked in a hot sattlrated solution of buracic acid and diecd, and this covered with Listers antiseptic g.use, and the whole cuvered with oil silk and bandsed. After the operation he was very rentless for some time. Two hours after the operation he went to sleep, and slept for half an humr, after which in order to gain mone reat and keep the patem quiet, timeture of (ppium was admmistered, whin hade him very exc italle.

Ap,a'zs:h.-- Pulse, reppirations and temperature normal.

Ahril 2oth.-Dressings were removed, after being on 48 hours : they emitted not the shghtest udor, and the stump louked wery well ; the dressing was repeated as befure; being so vedy rexbess in was found necesoary to administer 20 grains of chloral hydrate, and if required 10 grains in 2 hours. Evening, pulse 80; respirations 26 ; temperature os F .

Aprui joth.-Morning, dressings repeated; tamp not laking so fatorable ; pule $7^{s}$; respiration 20 ; temperature $100^{\circ}$. Evening, pulse is ; reppirations 26 ; temperature $101^{\circ}$.

May Ist.-P'atient feels very well; stump lookins better ; dressings repeated, but instead of using wrdinary dry lint neat the stump, boracic acid lint dried was used, and next to it was placed lint -aturated with a cold solution of boracic acid, then viled silk, and antiseptic gatue over all and Landaged. Morning pulse 70 ; respirations 233 ; temperature ys F. Eenins. pulse so ; respirations 20): ; temperature $96^{\circ} \mathrm{F}$.
 vump rather painful to day: slight discharge. Reprated deesings sume as jesterlay. Aorning, pulse 70 ; repirations $23^{1}$; temperature $973^{\circ} \mathrm{F}$. Evening, pulse So ; re⿻pipitions 2623; temperature gs $5^{-}$F. Silight constipation complained of for which twe compound rhubarb pills were ordered to be administeral.

Ahy 3rd.-l)id not rest well last might; feels better to-day ; appelite grod; pills operated nicely: stump not looking as well as usual ; st ght diecharge of $p^{\text {phs }}$; dressings ordered to be reerated. Mornins, pulse 75 ; reppirations 26 ; temperature 99. Fivening, pulse 75 ; respirations 25 ; temperature $9^{\circ} S^{\circ}$.

May qth. - Same as yesterday. Morning, pulse $^{\text {the }}$
$9^{2}$; respinations $30^{2}, 3$; temperature $100^{\circ}$. Even. ing, pulse 99; respirations 32 ; temperature ror. ${ }^{\circ}$

May 5th.-Stump looking better ; repeated dressings; injected sinuses with carbolic lotion ( $\mathrm{x}-4 \mathrm{o}$.) Ol. rucim was administered yesterday which operated.

May 6 th.-On the evening of the fifth he became very restless; suddenly there was a ciange from restlesness to perfect stillness. The nurse becoming suspicious examined the stump and found it bleeding profusely. She tried to check the hamorrhage and sent at once for Dr. Copeland but before he arrived the patient expired.

Sectio Cadazeris, it hours after death. The muscles of the thigh were undergoing " fatty degeneration." There was atheromatous degeneration of the arteries; the ligatures were found to be secure and as sound as they possibly could be; but the arteries were found to have ulcerated between the ligatures and Scarpa's triangle. Both profunda and femoral were found open. Viscera generally healthy; no other disease of the organs of circulation.

## Endeted Artidts.

## TWO NEW CHEMICAI. PRODUCTS FROM A HyGIENIC POINT OF VIEN.

$I$ have the honour to call the attention of the International Hyglenic Congress to some new chemical preparations which will have, in ail probability, a very consideradle influence upon the amehoration of public health. Everyone is aware of the dangers inherent to the manufacture and to the use of colours having a basis of lead, hat is, made with white lead. We all know that the health of the workmen is compromised to an enormous extent in this branch of chemical industry, and that the remedies adopted, such do the habitual use of dilute sulyhuric acid for drimking, the frequent washing of the budy, the use of gloves and "respirators," dic., are totally madequate to arrest the evil. It would be easy--but i. is ueless here -to dilate upon this sulject. lur uany jears past, sfforts have been made to disculer some white substance which could effeciuall, replace whate lead in the pantung of butdings, ships, wooden and met.allic wotks of all kinds, dic., and I have myself devoted several months of hard work to this important suljeject, but with very hitule success. There has been tound, it is true, in uside of zinc, a white substance less pursunvis than lead, and a substance that can very well be used for onl painting, but its production is very costly, and its
mechanical properties as an oil paint are not sufficiently prominent to enable it to cope advantageously with the commerce of white lead. It is very different, however, with an invention of Mr. Thomas Griffiths, of Liverpool, who has succeeded in obtaining a very interesting product, to which ! desire to call the attention of the Congress in a few words. This new preparation, wheh is already manufactured on a tolerably large scale, has for its basis a sulphide of zanc, or any oxy-sulphide of that metal, the properties of which, as an oil paint, are most remarkable, as I have had several times the opportunity of testing. It is prepared by precipltating a salt of zinc, by means of a soluble sulphode, washing and drying the precipitate. This is next calcined at a red heat, with certain precautions, and as it leaves the furnace it falls, whilst quite hot, into cold water. There it is submitted to levigation, collected, and afterwards dried. The result is a white colour of great fineness, and of ex. quiste beauty. From a hygienic point of verr, this new zinc white of Mr. Cintliths is intinitely superior to white lead, as it is, moreover, in a practical sense. It possesses no noxious quality; neither its manufacture nor its use aflects the health of tine workmen ; the price at which it can be obtained is comparatuvely very moderate; its durability, in the most variable of climates, is, so to say, indefimte; and it is in no way affected br gaseous emanations of any kind, nor by damp. This is a product which deserves, most assuredly, the attention of all those who have at heart the health of the working classes. What is most reI markable is that the new white covers much better than white lead, while it is more resisting as re gards the attacks of the weather; so that its use is not only without any kind of danger to the health, but it is more economical than the latter. The second preparation, of which I desire to say a fer words here, is a new kind of paint called enamel paint, which is already largely used in England and in the English colomes. It is a product which, of late years has becume a special brauch of manu facture on the part of the silicate I'aint Compans, of London, thus namued because the oil pains mamulacturea by tinis Company have for the: basis a very pure silica, obtained from a natura deposit discuiered a few jears ago on the west d England. This deponit which is very catensive, cousists of hydrated silica, containing about ij per cent. of water, and athe being calcined it suf pthes a very white substance, containing about 90 per cent. of pure silica. The natural product after levigation and calcunation, thus yieh's a ver white dad vers tine sobstance, which assimilate perfectly with uther culuirs, and with vils, \&e By means of this purfectiy inert and harmless sub stance, and ccrtan resmous preparations, ther? have been produced enamel paints which are in permeable to water, and which are applied easily
by means of a brush like ordinary oil paints. " will scttle any doubt as to whether it is free These enamel paints dry very quickly on the various objects of wood, stone, or metal, to which they are uphled, yielding a hard, smooth, brilliant and amperwous surface, which resembles either, porcelain or marble, and is endowed with great cleanliners. As this application is quite insoluble in water, it can easily be washed, when desirable, with suap and water, and its durability is indefinite. For the walls of hospitals and barracks, for preventing the entrance of damp into a partments, and for a host of other hygienic purposes, as well as fur purposes of decoration, and the presersution of metallic surfaces, de., this ingentu, enamel paint will sertainly be found of very grat value. I do not hesitate to take the risk of abusing the time at the disposal of the Congress in calling the attention to these new clecmical products, for I am perfectly convinced that thy $y$ must be ranked among the most ingenoous and useful inventions that have been made in our day. - Dr. Phipson, Herapath's Fournal.

MR. SPENCER WELLS ON OVARIOTOMY.
It is not an easy task to criticise such lectures as the six just delivered by Mr. Spencer Wells at the Roval College of Surgeons.
Mr. Wells begins hy carefully defining his task. "All that I can do," he says, " is to bring beiore you, in the plainest manner, the results of twenty years' exceptionally large observation and practice . . . and . . . to tell what I have learned ahout the diagnosis and surgical treatment of abdonimal tumors; how I have learned it ; the lessons I have been taught by mistakes and failures ; the satisfac tuon which has attended increasing suecess." These sentences accurately describe the scope of the lectures; beyond the programme thus sketched out they do not go.

The first lecture contains an account of the mode of examining patients with abdominal tumours, and recording their cases. This part is interesting, and fertile in usefui hints; but we fancy that every surgeon of large experience soon falls into a method of nute-taking suited to his own purpose, and is not likely to bind himself down to, the system of anyone else, however eminent. Mr. Wells then runs over the different kinds of abdominal tumors which have been, and therefure may be, mistaken for ovarian growths, noting the chief diagnostic marks of each. The brevity doubtless imposed upon him by his limited time makes this section, also, suggestive rather than exhaustive. We ind some remarks, not so clear as we could wish, upon the chemical and microscorical characters of the liquids diawn from ovarian cysts." "A chemical and microscopical examinaticn of the fluid that is removed," says the lecturer,
peritoneal or ovarian fluid, or fluid of some other cyst." Subsequently, however, he mentions observations which appear that to diagnostic rules based on this mode of investigation there are exceptions. We should have been glad of some more definite statement of the amount of weight to be attached to these facts. Do, or do not, the chemical and microscopical characters of the fluids in question with certainty reveal their origin? To this question we should like to have heard the answer of Mr. Wells.

In the third lecture, we enter upon the lecturer's own special province. He first describes tapping ; its history, methods, and the limits of its utility. Here he expresses a decided opinion, and his dictum ought to be, and no doubt will be, recognised as an authoritative rule. "I think," he says, "I have seen quite enough now to warrant me to endeavour to impress upon surgeons that, if the cyst be a single cyst, before they do anything else, they should see what can be gained by one tapping." Then he comes to ovariotomy. The rules which he lay's down as to the circumstances under which the operation should be performed are eminently judicious. So long as no great inconvenience is caused by the tumour, the surgeon should hold his hand ; but he should not delay operation till the patient's health is so undermined as to compromise surcess. The mere size of the tumour, ard the difficulties met with in the operation, do not so much affect the result as the patient's constitutional condition. The operation should not be associated with a sudden change, from activity and excitement to the monotony and restraint of the sick-room. Almost the only positive contra-indication to an operation is the fact that the patient has some other fatal disease. Even the probability that a tumour is cancerous does not absolutely forbid its removal.

As to the details of the operation, comment is not needed. Mr. Well's success is the proof of the correctness of his method. We may note, however, that as an anasthetic he prefers the bichloride of methylene, which he thinks safer than chloroform In the management of the pedicle his experience is greatly in favour of the clamp. The result to the patient is, he rightly says, the great thing to be considered, the thing with which nothing else can be compared in importance ; and tiied by this test, the clamp comes out best. The justification of the ligature is, that the use of the clamp is not practicable in every case. The cautery t.eatment, Mr. Wells has found troublesome and uncertain. The necessity for carefully counting forceps, sponges, etc., was impressed upon the listeners by anecdotes narrated at length in a dramatic form.

In the part of his lectures which deals with the treatment of the abdominal wound, Mr. Wells
refers tu a few valuable coll $===$ ite must saly we upon the admmstration of stimmants after operaremark withmuch regret the apologetic tone in which tion. We should also hike much to have Mr. he thinks it necessary to refer to them. He speaks ${ }^{\text {i }}$ of his having been accused of cruelty, and protests that the number of expriments he has made is but small. But we thinh that a man in his position should guide public opinion, and not bend to it. If he du allow himsalf to be influenced by the prejudices of others, it should be by the opivion of the educated public, the leaders of the scientific world, and not by the excited feelings of amiable, well-meaning, but misinformed persons. Those who, like Mr. Wells, are in the proud position of not only understanding what science is, and hun scientific problems are to be worked nat. hat of possessing the confidence of the puilic, should use their opportunities to lead people to appreciate science, and should help them to discriminate between those whose knowledge and work make them worthy of being heard, and those obscure seekers after notoriety whose only hope of getting it, lies in appealing to the ferlings of persons unaccustomed th think. Comparne this passage with one in the with lecture, in which Mr. Wells implies that his adoption of the antiseptic method was retarded by the want of some experiments on animals thich he would have liked to have made, we think tinat if he apologises for anything, it chould be for having so little availed himself of this means of interrogating nature.

A topic t:pon which the lecturer's remarks are very intereating, is thit of the antiseptic ystem. Hearing and seeing the great reoult which had attended this method, Mr. Wells thourbt it his duty to try it; but arcidental circumstance pre vented his doing so at the time he had intended, and, going on in his cld way, his results becamie even more brilliant than had attended the ntiseptic system elsewhere, and were not subequently outdone by the nety system in Mr. Wells' own hands. This forms an instructive commentary upon the doctrine of contaynum tizum, as expounded by I)r. Roberts at Manchester. Tu generate disease, there are not only needed morbific germs, but a soil in which those germs may live and propagate. Listerism(as it is called abroad) aims at, and succeeds in, destroying the germ:. But if, by scrupulous cleanliness, these germs can be deprived of any soil in which they can thrive, Listerism is superfluous. This view is borne out, not only by Mr. Wells' experience, but by Mr. Callender's statistics of amputations. Those hospitals in which Listerism has worked the gr eatest change, have been those in which, prior to its introduction, the principles of surgical hygiene have been the least attended to. Safety from woundpoisoning lies in either plan, the greatest security being obviously in the combination of both. We should like to call attertion, but have not space to

Wells' opinion of Battey's operation ; for the sake of this, we could even have spared Lord Sellorne's calculations, whech we tancy we have heard before.

And with respect to uterine tumoars, Mr. Wells omits to answer what seems to us the vital question with regard to them; what are the circum. stances whith render the abdominal removal of a uterine fibroid justifiable? There is one vast difierence between these growths and ovarian cysts. Ovarian tumours tend to death; uterine tumours, as a rule, do not. Hence th: rule of practice must greatly differ. We shotild like much to have heard what Mr. Wells thinks on this point.-Med. Iimes and Gazettr, Aug 3, '78.

## FALLOPLAN PREGNANCl'.

## VF.ll FORK NADEMY OF MFDICINE.

Dr. Laturence Juhnson reported (New iork Academy of Medicine) a case of Eallopian pregnancs uccuring in a women at twenty-nine years, morried, and the mother of two children, aged respectively four and a lalf, and twir and a half jears. She lud aways been healthy. Her last menstration commenced on the ith of February, is: 8 , and continucd the ustal length of timethree or four days. There was no evidence of pregnancy eacept the non appearance of the menses un March : ith. On March 23rd, at about noon, she suduenly began to suffer from pain referable to the pelsic region, became faint, and was put to bed. Small quantities of orandy were given at inters.as, and she partially regained her strength, but in the evening there was a return of the fuintness. She sumited unce or twice and had no evacuation from the boncls. The doctor saw her for the first time soon after the attack of fainting in the evening; found her very pale, with a feeble pube, ito, but there was ao discharge of blood from the vagina.

Wurch 2 ath $^{\text {th }}$-Patientappeared somewhat brightur pulse somewhat stronger, but rapid. Urination without pain; abdomen somewhat tympanitic; tenderness a!l around the uterus, but especially upon the right side. Pain was not a prominent symptom at any time during the entire history of the case, although at no time was she markedly under the influence of narcotics.

Marcin 25th.-Patient sank rapidly, and was thought to be dying. She rallied, howerer, so that on March 26 th she was comparatively bright. On the night of the 26th she sank and died, four days from her first attack of faintness.

Autopsy twenty-four hours after death.-Pelvic cavity filled witis blood. Ruptured cyst in the
right Fall pian tube, close to the uteras, and pro bably not larger than a hickory nut. Right ovary containcd a recent corpus luteum. Lterine decidua wery apparent. Iittle or no evidence of peritonitis.
Dr. Johnson raised the following important ques tion: H'utht not an choration, atth the aicie of se arring What issels, hate leen fasibli: and jastijualic immadiateiy ufter the viaurnenie of the first hemerr. hagrivn the 23rd of March.

METHOD UI IREATMENI sUGGLSED EY IR. 1.MMEI.

Dr. T. Addis Fmmet, in the light of a case reported by Dr. McBurney, and which was seen in consultation by Dr. Thomas and himscif, believed it to be a feasible operation, as soon as the Fallopian pregnancy was recognized, to first dilate the uterus, then dilate the tube, and in that manner remove the fotus. Dilatarion of the uterus took place when only a moderate quantity of fluid was enclosed in its cavity, and at the same time the fluid backed into the Fallopian tubes. He therefure was perfectly satisfied that, with proper instruments, the uterus could be safely dilated, and also the Fallupian tube, and as the cyst was usually near the body of the uterus, its contents could readily escape into the casity of the uterus when such dilatation was effected. Dr. Emmet then exhibited an India-rubber cot, such as he had been in the habit of using during; the last ten yearsfor the purpuse of dilating the uterus. The dilater was manufactured by Shepard \& Dadley, and consisted of an India-rubber cot contwining a tube into which a sound could be introduced, so that it could be carried to the fundus of the uterus; an additional fixture petmitted the attachment of a Davidson's syringe, by means of which the cot conld be distended to any desree required. When the uterus, had been dilated, a curred suurd could be used, and the cut introduced into the Fallopian tube, and dilatation produced as in the furmer instance.

## FEAbIBILIIY OF A SLRGICAL OPERATIUN.

Dr. Emmet was of opinion that as soon as rupture $n_{1}$ the cyst occurred, it was a proper operation to immediately open the abdomen and secure the bleeding vessels; for, in comparison witi such operations as ovariotomy, opening the abdomen for that purpose was a simple affair.

Dr. Post referred to a case reported to the International Medical Congress by Dr. Georgia, in which laparotomy was performed for that purpose, and with good results.

Dr. Sell approved of the operation.-Medical Record.

O'ario comy Supersheded.-A proposal has been, brought before the Paris Academy of Sciences by
M. Tripier to establish a fistul. between the cavity of an ovarian sac and the exterior. He has tried it in one case with success. The interiur of the sac can in this way be washed out or treated with iodine injections or cauterised. He has used injections of iodised water daily. The g.lvanocaustic io used to establish the fistula. Tai, operation is less furmidalle than obariotoms, and can be easily carried out, but, of comrse, is nut devoid of danger, but it may be applicable in cases where gastrotomy is refused or inapplicable. With regard to injections, they should not be two strong. We may point out that death from poisoning by iodine has been recorded where the drug was injected. This operation may be compared with electrolysis for ovarian dropsy:- The Dector:

## DR. McLEOD ON S.IVRE'S METHOD OF TREITING SPINAL DISIEASES.

Dr. G. H. B. Macleod gave, on a patient at present under treatment for I'utl's disease of the spine, a demonstration of Sayre's method of treating this affection. He said o:e great advantage the system had over the furmer treatment was, that the patient was allowed to go alout, and into the open air. As they were duare thete were two kinds of defurmilies of the spine; Putt's disease (antero-posterior curvature), which was a true disease, in wnu ‥ the bodies becane ciisintegrated : and litteral curvature, not a true disease, as it inwhed no patholugical change, arising from abourmal contriction of the muscles. Putt's disease is mostly seen in youns persons, and more frequenty in buys and girls, and, as Sayre has pointed out, it is frequently traumatic in its origin. The ordinary idea that Putt's disease is strumous, and due to scrufula, it not burne out by evidence, though it misht be true to this extent, that a scrofilous child is more readily affected than another. The early symptoms are a little difficult to recognise. If the lesion be in the cervical region, there is often a feeling of constriction of the neek, dysphagia, and a loud hacking cough. When thesesymptoms are present, without any indications of chest mischief, the spine should be examined. If in the dorsal region, there are dyspeptic sjmptoms, with a kind of inspiration, which Sayre described as sruntin!. Pains in and around the chest, and general hassitude, are often present. If lower down, the symptoms are often referred to the bladder. There are wandering pains of the abdomen, thighs, \&c. To examine the child, they should take him on their knees, face downwards, the thighs of the surgeon being parted, so as to make extension upon the child's spine. They would see by the behaviour of the child, if Pott's disease were present. By gradually making extension, they would often evuke from the patient a
smale of satisfaction from the relief experienced. This would at once vanish, and a cry of pain be elicited if extension were withdra on, and the ver tebrec crowded on one another. Then again the mode of walking, of stooping, \&c., were characteristic. If jumpung down from a chair, the child would light on his thes or the fore part of the foot -never his heels. He had a habit of keeping his hands reating on his thighs. When stonping he! did not bend his back at all, but by a series of shifts and expedients managed to reach the obiect he wanted to lift. The pain arising from the affection was often mistaken for growing pains. The principle of Sayre's treatment was by some hard supporting age th to throw the pressure upon the bones not diveased.

Dr. Macleod then demonstrated the treatment on a patient. 1)r. Macleod added that he had tried other substances besides plaster of paris, sich as paraffin. glue, starch. Gilue did pretty well, but was not equal to phaster; while paratfin did not do well, and was dirty to handle. Healso pointed out that instead of Sayre's suspension ap. paratus, it was easy to improvise with a room door an arrangement that would serve the purpose. As regarded abscesses, which sometimes ocurred in Pott's disease, Sayre, who did not believe in antiseptic surgery, opened them freely, and cleansed out the abscess with Peruvian balsam (an antiseptic). Dr. Macleod then demonstrated minutely the further treatment for abscesses. He also showed by means of a model that, as proved by Sayre, in what was usually called lateral curvature, there was a rotation of the bodies of the vertebrex upon themselves. On this account he (Sayre) had substituted the term " Rotary Lateral" for hateral, as being descriptive of the exact state of matters. in regard to this kind of curvature, all the ordinary kinds of apparatus went on a wrong principle, and did haum. The object was to get back muscular tone, and this was done by exercising the muscles which had lost their energy. Mere lateral pressure would do no good at all. The spine must be straightened by self-suspension several times daily, for months at a time. The hand on the concave side should be held uppermost. After a considerable experience of these cases of curvature, he had no hesitation in saying that Sayre's treatment of them was very far in advance of any former methods of treatment which he had tried.-Gias. sow Med. Fournal.

## TUBERCULAR ULCER OF THE TONGUE.

M. Nedopil, in the Archiv. for Rlinische Chirurgie, remarks that the diagnosis of secondary tubercular ulcer of the tongue is generally not difficult in the presence of other indications of tuber-
culosis. On the other hand, primary tubercular uleer can often be scarcely distinguished from can. cer unless a microscopic evamination be made; while the failure of anti syphilitic trcatment, distinguishes it from syphilitic ulcer, which often has a similar appearince. The tubereular ulcer of the tonguc runs a course resemblin's that of cancer. A small hard nodule on the edie or upper surface of the tongue, which is often nver. :ooked, at last falls off, and leaves a dirty ulcer, with an indurated base which generally spreads more slowly than a cancerous ulcer. A cure can be produced only by early extirpation, which, perhaps, may arrest the development of general tuberculosis. The author has observed four cases in Bilroth's clinic ; tw. of the induriduals were thirty. two years of age, the others sixty-eight and seventy. In three cases the ulver was extirpated, and heal mg took place in a few days. In the excised pieces the tissue around the ulcer was studded with miliary tubercies, mostly toward the free surface. The morhid process appears to commence with a general transformation of the muscular tissue into a homogenous slightly granular deposit containing proliferating muscle-nuclei. Iater, the primary deposits become confluent, and giant cells are furmed from the obstructed portions of the blood-vessels; in some of these Nedopll found cavities filled with brown pigment. The growth of the tubercle appears to take place partly through proliferation of naclet (without cell formation) in the interior, partly through metamorphosis of the neighbouring tissue.-7he Doctor.

## BONE F(ORMATION AFTER RESECTION O' THE LOWER JAW.

The following is by B. von Langebeck, in the transactions of the " German Suciety of Surgery," Sixth Congress:-
(ientlemen : I am permitted to make this brief communication through the (as I may well say) exceedingly great attention which Prof. J. R. Wood, of New York, has shown, in sending this preparation here from New York by his assistant, Ir Wiggin, in order to allow it to be demonstrated. I)r. Wiggin must return again to-morrow to New York, and, although our allotted time is very brief, r.evertheless I have deemed it necessary to present this demonstration, because otherwise our distinguished American colleague would have sent us this really grand work in vain.

Prof. Wood, Surgeon to Bellevue Hospital, in New York, had the kindness to send me the photograph of this skull last fall-a skull of which the entire under jaw had been extirpated on account of phosphorus-necrosis, and of which the whole lower jaw has, in the course of a brief time, formed itself anew; and when, in my surgical
lecture, I had showed and explained this photo-; graph, 1 did not belicze that a corresponding fre parathen radly existad anywellere, befure he had the courtciy to send us this shull with the newls.formed lower jaw. I will briefly present the history of the operatoon, which is described in a short artisle by Dr. Nowd in the "New York Journal of Medicine" for May, 1856, as the "Removal of the entire Lower Jaw, for Necrosis caused by PhosphoricArid (cis."

A gil-Cornelia S.-sixteen years of age, formerly always healthy, had worked in matehfactorie's fire two years an'. a balf, one of which was very bady rentilated. She was occupied eight hours daily in packing matches, but enjoyed the bent heilth until May, $1 S_{5}$. At that time there took place, along with terethache, a swelling of the tuser jaw, with suppuration. The putient, however, comtinued her work up to December, 1855 .

Upun lier reception into Bellevue Huspital, total nurusi, of the right, and partial of the left, lower jaw aisted, with profuse suppuration. The pus peured for the greater part into the cavity of the mouth, and outward through a fistula opening in the liwer border of the mandibula. Notwithstanding this, her general health had remained good, and her appetite good, only chewing very much impeded.

On the igth of January, 1856 , 1)r. Wood, made a resection of a part of the right inwer half of the juw, with most careful saving of the periostemm, and with preservation of the chin portion of the lower jaw. Healing resulted without interruption, but it soon became evident that the entire remaining under jaw was diseased alon, and this had likewise to be removed on the 16 th of lecbuary, 28 days after the first operation. Excepting the retraction of the tongue ensuing upon the removal of the jaw, and the choking symptoms induced thereby, the good effect of the operation and the healing of the wound remained uninterrupted, and in March, 1856, the patient was able to be discharged, recovered.
The reformation of the bone was complete, and the function of the new lower jaw left nothing further to be desired. In the photograph taken at this time. $\because$ oul observe the admirable contour of the lower jaw, of which the chin-portion only recedes slightly. Some years later, Cornelia S died of abscess of the brain, and so Dr. Wood acquired the possession of this skull, which stands before you, and upon which you observe the entire lower jaw, with extremely complete for mi, only a very little smaller than the original must have been.
Formerly, cases of phosphorus-necrosis came into the clinic here not infrequently, and scarcely a term passed in which some jaw-resections were not perfurmed. Thanks to the better ventilation in facturies since 1864, scarcely any cases have come under observation, and it appears that. rhosphorus necrosis will, at no very distant time, be eliminated.

I have performed subperiustelltacetion of the entire lower jaw six time-four times in cunsequence of phosphorus-necrosis, and twite in consequence of acute onteo-periostitio. In, all these case teformation of new bone was obernad, and, indeed, as in the case operated upon by Itr. Wioud, with must a mplete resturation of the function.

When one extirpates the entire lower jaw from under the periontem at one stlung, the chin must invariably recede. The room for the formation of the new lower jaw is resmicted by mosles, mamely, by the geniuglossi; the cuntour of the new luwer jiw develops mperlectly, and the chin-portion of it retreats more or less perceptibly. In order to obviate this evil, I have, like 1r. Wood, made the operation at tand different times, and at first cut out from the perionteum the smaller portion of the mandibula-which was, howeter, must diseased leaving the chin and larger portion alunc, and then, after four or six week, resected the remainder. Bat even then, as this photograph and the description given by I)r. Wood indicate, the luwer jaw is alway's smaller, and the normal prominence of the chin is lacking.

The evil is almost completely aroided, if as Billruth has recommended, one leave behind in position osteophytes from the necro- $d$ bone, in immediate contact with the periosteum. This photograph shows you such a case. I cut out first the smaller part of the necrused j.aw-bone, and, after new bone could be distinctly felt--six weeks later -I cut out the greater part, with the chinportion. The reserted jaw here shows you that osteophytes were left almust completely around. The photngraph, which is taken half in profile (August Matthe es), shows you that the contour of the lower jaw is very complete, and that the chin stands out in the normal manner.
The skull sent to us by Dr. Wood settles at once the question of the durability of the newly-formed bone. It has, indecd, been repeadedly maintained, that the newly-furmed bone, after subperiosteal resection, camot be of a durable kind, but that it subsequently must be reabsorbed. At all events, this may happen, and I have myself sten it in the case of a woman suffering from phosphorus-necrosis of the lower jaw, much reduced by long suppuration, whose lower jaw, newiy formed after resection, was, after a twelvemonth, almost entirely reabsorbed. Such an absorption of bone is, however, a rare occurrence in my observation, and I can testify to the unchanged persisterce after years of the new bone-formation, after subperiosteal extirpation, as well in the lower jaw as in long bones (tibia, radius, os metacarpi pollicis).
Dr. Wood's patient died some years after the operation, and yet you see the new cower jaw preserved in all parts, although a trifle smaller than was the original jaw.--2V. Y. Me.t. Reiord.

THE METRIC SISTEM* IN A NUT-SHELL.

13Y EIW ARD WIGGI,FSWORTH, M.I.

Surgeon (General Woodworth, of the U. S. Marine Hospital Service, May 3 issued a circular, with the approval of Secretary Sherman, requiring medical otficers of the Marne Hospital Service to make use herenfor for all official, medical, and pharmaceutical Weights and Measures, which has already, under the act of July 18,1866 , been adopted by this service for the purveying of medical supplies.

The metric system is already lessulized in both America and England. The only question now is, which of the two, the most progressive or the most conservative nation on earth, shall be the first to definitely and finally adopt $t$ as an cacustice system? [N.B.-England was 400 years behind the continent in adopting our present arthmetic.] Russia has already taken the preliminary steps lowards its final adoption. The rest of the cuntized world long smece made the system oblhgatory; in whole or in part, except that, in Sweden alone, its obligatory use is to date from a period in the future, iss'g.

Now, what is this metric system? Metric is from the Greek word " metron,' a measure, spelled with lepsilon, e short, and therefore pronounced, mê-tric.

The meter [measure] is practucally, a fixed quantity, namely, the ten millionth part of the earth's quadrant from the Equator to the North Pole. With the meter everything can be metsured, for it is itself the unit of a length; a cube, the edge of which is tenth of a meter, is the unt of capacity [Liter], and the weight of a culve of rain water, at its extreme contraction, the edge of which cube is a hundredth of a Meter, is the unit of weight [Gram].

It is the gram alone which concerns physicians for, in the metric system, cierythuns is best presirbocd and dispensed by aieisilt alone; numbers upon a prescribtion paper being regarded by the pharmacist as representing Grams, Liters, or Meters. These are ; Deci for tenth, Centi for hundredth, Milli for thousandth; Deka for ten, Hekto for hundred, Kilo for thousand. Having these few words, the terms of Troy, Avordupois, and Apothecaries' weight, and of licquid measure, may be regulated to the limbo of pounds sterling, shiliings, four-pence-ha'pennies, and farthings. As we say dime, cent, mili, so we say deugram, centigram, milligram. These prefines are Latin, and diminish the value. Deka, hekto and kilu are Greek, and increase the value. The mnemonic is

[^0](i I I, 1), ic., Greek Increases, I.atin 1)icria,es. Deka occurs in the Engh-h word decade, hehio in hecatomb; kilo in chilad.
" Being accustomed to the words mill, c ent, and dime, we shall find the words 'milligram ' yute as smple and easy to pronounce as our words 'pennyweight-troy,' ' hundred weight-avoirdupoic,' 'scruple-1pothecaries,' etc., notwithstanding the asserton to the contrary of hose who grieve to give up the "short and sharp . Anglu-Sinun words used in our preerent familar old tatles of weights and measures."
Practically. moreover, for physici.ms, the whole
 in mones to dallar, and cents. ()n the right sid. of the prextiptum puper draw a perpendacular line fron: top to buttum. This decimal lane takes
()ID ATIt.

Mifif.
Grim.
$m$ i or gr. i
equals
c)

$+$
the phace of all the we imal points, and obriates the ponilulity if masuter. This is the way dul. lars and atats ate seporated on business papery. Additional security sis gined by writng the decmal fiaction [centsgram-] of half sice and raised abone the line [of grame], since it reperents a numerator of which the denuminatur 100 in given. To make assuratace doubly sure, "(irams" may" be written between the initger-column of figures, and if wished, the word "decimals" over the decimal c.olun!n.

Now, what is a (iram? or rather, the values, metrically expressed, of our present awkward welghts?

|  | Pruッun. | I'ractual. | Preuse. |
| :---: | :---: | :---: | :---: |
| (irain I | $\doteq 0<6$ | 0.06 | 0.065 |
| $\bigcirc$ I | $=1.25$ | 125 | 1.29 |
| 31 | $=2.75$ | 40 | 389 |
| \% 1 | $=30.0$ | 32.0 | 31.1 |

The "practical" table alone concerns us. The "Prussian" [thy order of the Prussian Ministry, Aug. 29, 1867] is given merely to show that our table is even nearer the actual truth than one which has been proved by actual experience 10 answer every purpose. The values of the grain and scruple are a little tou small. As they are used for powerful drugs this is on error in the right direction. The values of the drachom and vunce are a trifie too larse, but the proportions and therefore the ratio of drug to vehicle are preserved.

A prescription written metrically is always proportionate, and whether the pharmacist uses pennyweights, pounds, or tuns; gills, pecks, or chaldruns; pints, gatlons, or hogsheads, the ratios are preserved, and a ternpuon duse cuntains the same amount of medicinc.

As regaribs administration, a teanpoon sepre! sents five ghams, a tablespoon twenty grams ; for a teaspoon holds one and one-shird fluid drachms, a tableppon a trifle more than four times as mach.

In the Metric System cer, thin, is arch, ha, than, obviating the difficulues of evaporation, refraction and adhesom, and obtaining more conveniently, more exat results. In our old "syutemless ag. rem" orme fluids were measured. How shall we obtain with beights, the desired buiks of muid with warsing weifhts? Must we learn the spewtiv gravitie, of all fluid,?

## . Dit at all!

I. Fixd wil, hones, higuid a id and hhoroform, muntat present he prewriked in our ohd weishts, not meanures, dumbing to the pharmacopuat. Here ch.mge old weights to merric ones.
2. Nit chusth chloroform or cther is in ladel in any one prescription to admit of harm arisin: from the anoment contained in a single dowe, even were their wushts regarded as the same with that of water. Moreover, it is not difficult to rememiaer that ether weighs seven-tenths as much as water, chloroform twice as much as ether.
3. There remain intusions and tine tures, shecer. ine and syrups. These four are und in lalk as doses, or as solvents or vehicles. The former twi, may be resarded as identicai in weight with water ; the inter two as one third heavier, and when prescobing the ex we need merely write, by weight, for, four-third, as mun as we should write for were we prescribing water, and we ubtain an cupal bulk. The teapp, on or tablespoon duse will then contain the derired amount of the drase employed.

Or, simplest of all, we can make any mixture up to any deared bulk by merely directung the druserint to use enou;h of the vehale to bring the whole mixture up to the requisite weight for that bulk.

The Metric Bureat, 32 Hawley Street, Boston, will furnish metric preicrption-ilank, to order, to druggists or phesicians at four-fifhs prinuer's rates, or any blank can be made sufficiently metric by a perpendicular line at the right, headed $y^{\prime}$ ams.

## ALCOHOL AS F()OI).

Having read with interest the correspondence upon the above subject, I beg to quote a case that has lately oucurred in my practice, which, in my opinion, proves that alcohol is a food. On March Ist, 1878 , I was called to see a gentleman, a distinguished officer, who had seen much active service, and found him in a very weak and low state. I was assured by his friends that the only foud he had taken for nearly a year, had veen one west fer diem, beaten up with sherry. I was sent for in consequence of his refusal oo take the egs any longer, or any food, with the exception of aloohol. I persuaded him to take milk, which he did, but
only half a pint a day, for three weehs; afterwhidh time until the day of his death, 'n Jome, he took nothing but ahobol in warious forms. He "as nursed throughout by a shilled nurse, in whem I have evers contidence, Dr. Phams..- Brathoi Madtaal Julloma'.
 been formd dabible in the bippenary pratice to adopt a method of treatment for enlarged prontate, oldiating the use of any instrument, as the patients are a, ally unalle ta buy one. I certain amount of relicfis obtained by the flaid extract of buchat or of triticum repers, when the secretion is turb: or acrid, but their effiacy is, of course, sight when unucompanied by the introdaction of the wift catheter. It was my good fortune to try the effer of the thadedentract of ergot in large doses for thome cases, and was tem; ted to do so by the success I bltatined from it in treating a case of smple incontineme without enl.rged prosiate. The treatment proved successful, and is now a sandard one with $u$, in the surgical department. The following c.lse will illustrate the way in which it acted :
W. M., aged twenty, hatorer, came to the Dispensiry, May, soth, i尺fo. He stated that for ame io or a fyar, he satiored from dribbling of urime. (n) Mas jral his troubles wore much aggranated, and he came for reifef. $A$ catheter was motrulaced, reliesins his budder. The patient was then at one put upon the fluid eatract of ergot in teaspomamme, to be taken three times a day. I'revinusis he Padpossed water with extreme pain and difficulty seven or eight times a day, and trom four to fise times a nisht. He experienced great relief from the ergot.
May 23 ,d. - He repurted that his water was now phsed unly five times a day, and wice at night. The water is clear, and there is little pain in passin:s it. In cases where the patients can buy the soft, clastic catheter (Nelaton's), it is recommended, with directions to use it twice or three time daily: This treatment moy be combined with the use of ergot; but ergot alone has been found of grea. advantage, the patients returning at regular intervals to have their medicines renewed.-Dr. Suttirthaiatit, N. Y. Med. Juurnal.

Thi Hul Mestard-Bah in Psecmoni: in Chilores.--D)r. Leunard Weber, of New York, gite tios experiche in the use of this remedy, in the American Journal of Obotetrics, April, 1878. He has used the mustard bath unly in the severe cases of pneumoniat of children. For years the troatment followed by him was that of the late Professor Traube, namely, the use of infusion of digitalis and nitrate of soda, whenever the pulse
and temperature of the patient were high, and there was an indication that something must be done to bring them down. Ihis treatment proved satisfactory for a long tume, but he finally falled to have his former success: and in the asthemic cases admitted to St. Irancis's Hospital, New York, more than fitty per cent. died in spite of all treatment; and twelve per cent. of the sthenic form died, under the use of digitalis and an evening dose of lover's powders. He further says :-" The great value of the hot mustard-bath as a means of saving the life of a peumonic patient, after other remedies had failed, I learned in 1869 . About a year before that, I attended J. A., ten months old, ? prevously healthy and robust child, atflicted with extensive pneumonia, after having been suck for a week with bronchitis. Un the third day after I had seen and treated her in the usual manner, she became rapidly cyanosed and died. In November, 1869 , another female child of about the same age and simblarly good constitution, in the same family became affected in the same way, and when I saw it I recognized pueumonc infiltration of both upper lobes. In spite of emetics, digitalis, mustard plasters and poultices over the chest, she became cyanotic at the end of the third day, with stertorous breathing, cold extremeties, and faling lieart action. It occurred to me at this stage to immerse the patient in a hot mustard bath of $105^{\circ}$ F., prepared by diffusing about a pound of mustard in a baby-tubfull of hot water. I kept her in for about ten minutes, making thorough friction all over the surface, and untul the skin had a sumed a pinkish color. After being put to bed, which I had well warmed prevously, tice child beran breathing easier and soon feil asleep. The skin remained warm, and an hour after the bath the child was perspiring freely. With the improvement of respiration, the pulse became stronger and less fiequent, and the child took the breast most readily. Encouraged by this success, I repeated the process four hours later with the same good result; and after having administered five baths in the course of forty-eight hours, and given no medicine whatever, I had the satisfaction of seeing my patient convalescent."

Since then Dr. Weber has had about fifty cases, and gives here a short account of six of the most severe ones; all of them recovered, some of them being complicated with whooping-cough and measles, and in some cyanosis had occurred, the hot mustard-baths relieving the congested lungs and helping the over-burdened heart, after other remedies had failed to be of service.

The modus operandi given is that the mustard is a powerful irritant, and the hot water dilates the bloodvessels, and thus a large amount of blood is drawn to the periphery over the whole body, and the obstructed pulmonary circulation and heart's action are relieved. Again, the bath is regarded
also as a powerful excitant and stimulant of the central nervous system, respectively of the vasomotor center arting upon it by "ay of retlex, through irritation of the nerves at the periphery, and thus relieves the comatose condition, where camphor and carbonate of ammona have failed,Amertan Practitioner.

Anal Fisctres.--"Our nevt natient has an affection of the rectum:. He in already under the influence of cther, but is not breathing frecly. When the head of an etherized patient is allowed to fall too low, sou will in uriably fand that trouble begins. The tongue natur.illy gravitates backwad because the paticnt ha, no muscular control over it. Whenever this happens stertorous breathing will at once be heard. It will then be neces:ary simply to raise the patient's head. The torone comes formard, and ropiration agoin heromes eavy. There is another condition in which an etherized patient becomes tetanic. He has opisthoionos, draws !imelf forcibly and convulsively backward, and his movements are spamodic. In sucin a case the need is air, and the ether should le withdrawn. If he throw himself lack with great force, turn him un his side, and the condition will pass off. Our patient is mauseated. Aft r be has vomited he will g's to sleep casily. He is a laboring man, and say he cannot give us more than one week in which to treat him. At stool he suffers great pain. Yesterday I hastily examined him, but am not yet fully acquainted with his trouble. What I then saw I see to-day, namely, three or four small finsures, which undoubtedly are the entire cause of hi, suffering. One of them is healed, and another nearly s.); a third is raw and ulcerated. When the anus is stretched in the act of defecation the fissures reopen and give intense pain, just as the cracks in the corners of the moith during a meal.

Introdicing my finger I do not feel anything abnormal within the rectum. It is probable that the troable is confined to the margin. The method of treatment is to work the two thumbs into the bowel, grayp the tubcrosities of the ischia with the fingers, and then rupture the splincter muscle, as I have now done. The cracks have thus been widened. I now pass an Allinglam speculum and examine higher u;. I find nothing but this fissured conclition, which is very marked, as I will show you in a moment by thoroughly stretching the rectum. The principal fissure is situated on the justerior wall. I now take the knife and lightly score the unembrane, just cutting down to fissure itself, This I do in several directions. We shall keep the bowels open for a week. Aside from this, merely ordinary care is all that will be necessary.-Boston Mea'. and Surg. Journal.

Ex-Surgeon General Hammu. d.-The Nic Yurk Med. Record (March 9) says that this dis-
tungurbad surgeon, to whose great ability and untring dorotion the dedatable conduct and management oi the Medical Department of the United state: Army during the late civil war was principally due, is atout to receive some reparation for the in quatuis treatment he was subjected to by being deproal in 1864 of the high post of SurgeonGeneral, at which he had haboured so successfully. By the general consent of the profession in the Lime 1 states, and thase of its members in Europe who "re acguainted with the circumstances, it wis danitted th.t his displacement was brought about by one of those iniquitues pieces of political folbery which has so ofte"l disgraced the Cnited Statos (;uvernment ; and it is certain that the entimation on which he has since been held by his pr fesmonal brethren, and the distinguinhed career whin he has pursucd, could never have resulted had the charges which were trumped up against hum lued any foundation in fact. It is a matter of cons..tulation, then, thit this is about to be pubhay .whowledged, and a tardy, although imperfect repaiation accorded. A commitee of Corgress has reported that it has exmined with searching scrumy the evidence adduced at his trial, and pronuatici, it worthless. It therefore recommends a thil whe framed (which has since passed), enabling the I'icsident to annul the sentence then pronow.. ed. The Bill, however, will prove a lame pice of justice, for while decreeing that Dr. Hammund shall be placed on the retired list of the army as "Surgeon-General," it adds that this shall be "without pay or allowances, past, present, or firture." This is something like our fashion of granting a royal pardon to one who ous't: never to have been convicted.

Medical Evidence in Courts of Law.-In a case which is excting a good deal of attention this wech, atising out of all alleged assalt upon a popular atress, Mr. Prescott Hewitt was quoted in cuurt as having requested that other evidence than his own might be taken, as he declined to appear as a witness in court. It is well known that many other surgeons of sinain r position to that occupied by Mr. Prescott He itt, and equaily solicitous of preserving professional reputation intact bufure the public, have for many years adopted a silmar course. We do not remember to have seen, fur instance, Sir James Paget, or Mr. Savary, or Mr. George Palluck, make any appearance as medical witnesses in contested cases. Of course it moly be said, and will be said, that, for the purpuses of justice, it is essential that expert evidence should be forthcoming; and that, if all medical men of high reputation were to adopt a similar csurse, the evidence forthcoming at railway and gither cases would be often of a less satisfactory sharatur than that which even now often proves the cause of much public scandal. The force of
such an observation is undoubted, and this is $\mathrm{a}^{2}$ consideration not to be undervalued. On the other hand, under the present unsatisfactory conditions of the taking of medical osidence in cours of law, it may be doubted whether, if practical protests of this sort were pretty universal, it would not more effectually than any other course lead to the desired refurm by which expert evidence should be taken in an impartial manner fur the infurmation of the court. Certain it is that judges and lawsers alike concur in estimating, as a rule, very cheaply the sort of medical evitence which is now so frequent in courts of law, nor do they hesitate, both officially on the bench and on puliti occasions, and in priwate, to eapress a strong regret for the sort of contlict which frequently uccurs befure them, and their opinion that it dues nut tend to increase the respect entertained for the acquircments and impantiality of the members of the medical profession. The resolution taken, therefore, by such men as Mr. Prescott Hewitt, Mr. Polluck, and Mr. Savory, to decline to give expert e.idence, is readily underderstoud, and will meet with a good deal of sy:npathy, and if the example were mure generally folluwed, allhough it might tend in the first instance to still greater degradation of medial evidence in cours of law, it might probably, by that very fact, ultimately lead tu very salutary reform.-Brat. Med. Fournal.

Calotic Appilcation tu the Cervix Utehi in the Vomiling; of Pregnancy.--Dr. J Marion Sims, considering the suggestions it contains of great importance, contributes to the London Lan, iet, a paper written by Dr. M. O. Jones, of Chicago, on the experience of the latter with tle application of caustic to the cervix uteri in the vomiting of pregnancy. He believes that this vomiting is a reflex phenomenon, which fact may account for the unsatisfactury treatment of it by the stomach. Within six gears he has tieated successfully fire cases, his plan being to excite, by means of caustic appications, an irritation or superficial inflammation of the os and cervix uteri, thus concentrating the reflex nervous phenomena at the point of irritation and thereby relieving the stemach.

In his first patient he applied the caustic to the os only. The bentfit was very nuticeable within twenty-four hours. Being somewhat apprehensive he applied it only sparingly, and in a few dass applied it again, obt.uining stull greater relief. Ife used it the third time, but suspects the third application was really unneressaly. The patient remained free from sickness or vomiting until the end of pregnancy. In lis second case he applied the caustic only twice, complete relief fullowing the second appilication. In the third and fourth cases, one application wa sufficient, although the founth was one of the most harassing end persistent cases
that ever came under his care. The stomach; reduction in the quantity of urine passed daily. rejected everything tahen mont, and the pallent From ten pints it fell to six punts daily, then to grew feeble, and became so emaciated that she was fthree, where it remained. Even before reaching scarcely able to leave her bed. The caustic was the present limit, he ordered the dose to be grain this case applied very trecly to the os and wa-dually reduced, first to one drachm, and then to ginal cervix. In all of his ases all the ustal, halt a drachm. Then it was stopped altogether, and remedies had been faithfulls tried belure the calustic was resorted to.

Dr. Sims adds notes of a cac ucuming in his practice in which this teatment was marvellumbly ded succersful. His first applatition of the causic in;-Brithsh Medtal Journal.
solution of two drachms to the ounce was fullowed by great improvement. It the end of fise or sid, days there was sume nausca, which was, howerer, not distressing. The pencilling of the neck of the womb with pure cariolic acid until it was completely en eloped in a whitish film, relieved the nausea, and the day following she was perfectl! weli... Mich. Mad. Niz's.

Poincria Succeshelly Treabed hi Ehoob uF Rie. -A case of pulyuria is apolted by Dr. Rendu (Finaci Me. Jicaic, Fel. 27, 1878) in wheh ergot was successfuliy cmployed. Thate was supraorlital neuralgit, sertiso, with luss of cunsciousnes, excessive thirst and hunser, with ematciation and loss of strength, although the patient consumed a considerable quantity of food. The urine contained no trace of ugar; the quantity was about ten quarts a day. The urea eliminated by this means in the twent-four hours amounted to from about $\mathrm{I}, 250$ to $1,400 \mathrm{grains}$. Before having recourse to ergot of rye, tincture of valerian was first tried for this patient, in the dose of afteen minims, and soon atternards of halt a drachm. Linder the influence of tins treatment, the urme diminished by nearly a yuart. Sulphate of atropine, in the duse of one miaisramme ( 0.15 gran) at first, then two, daily, produced a similar intprovement, bat no adantage was found in persevering in this course, since the appecte diminished, with the walerian, and the thist increased with atropine. Ergut of rye was then tried. The success of this agent was remarkable. In eight days the mine fell to 1.600 gram . and the urea to 15 gram. in the twenty-tour hours; the emaciation was stupped, the strength returned, whilst the thirst and the excessice disire fur fuud dloo disappeared. Dr. A. Costa, (Léio Ionk IHospital Gazette, Fei., 15,) repurts also a case of diabetes insipidus, with the excretion of ten pints of urine daily, without sugar or albumen, marked by a great emaciation, and states that he treated the putient with fluid extre't of ergot, which treatment had been fullowed witu, triking success, i.e., complete cure in two cases in pi ate practice. Dr. A. Custa put the patient upon an $n \cdot$ ial dose of half a drachm of the fluid extract thrice da:: the dose to be increased gradually, first to one d..chm, and thea to two drachms. There was at once appuent great

Thrpenine in Wheoping-Cough.-Dr. Albrecht (ierth cured a case of laryngeal catarrh by inhalations of oil of turpentme. Twenty drops were placed on a handkerchief, held before the mouth and nose, and about forty deep inspirations tuhen. This was done thrice daily, and the cure was quite mpid. In the ame family he found a child filteen months old, with pertursos in the conrubive stage. The intant was quite exhausted and romited almost all nourshment. There was at the same time some bronchall catarrh, with shight nocturnal elecontions of temperature. Its constitution was sciofuluas. Gerth decided to experment here with the turpentine. He overcame the difficulty of admimntration by getting the mother to hold the moistened cluth before it during its waking hours, and to drop the oil upon its pullow while asleep. The result exceeded all his anticipations. Before the termination of twenty- our hours, the frequency and seventy of the atacks had perceptibly chmmished. The strength of the chald wais sustained by cognac and champagne. and he ordered that tor tive mmates of everv hour the doors and windows of the room should be widely opened. The improtement was so evident, and so rapid, that these instructions met with buthitle resistance on the part of the parents, although they were not of the melligent class.

This experment was first tried over a year ago; last sping and in autumn pertussis was again epidemic in his neighburhood, and he had repeated opportunities of testing this agent. He give it to children of all ages, and in all stages of the fever. The intid catarrial, the convulsive and the terminal catarihal stages were all decidedly benefitted, the spasmodic atucks being in many rases abort-ed.-Alecemeine Wicher Medzantsche Ze:tung, No. 12,1875 .-Citime.

Catcut Sutlres in Ciesarian Section.Transldied by Dr. A. Kuiser, from an article in Ardhizes de Toiolojie et Maanadis des Femmes, by Dr. E. W. Jenks, of Detruit.-In my article (referring to the report of a successful case , of Ceesarian Section, published in the December number of the same juurnal), I maintained the inca that I preierred the gut cord or the silver wire to all other material for utcrine sutures, but in the
absence of both I would employ silk or even linen : thread rather than use none at all; and subse-, quently I made allusion to substinces equally; harmless as the gut cord, the siiver wire, etc., , thus giving preeminence to the gut cord. Since the article was written I have changed my of inion with regard to emplosing the gut cordas a lig.ture in the peritoneal cavity. Theoreticaily it is the inest maxe: ial an arcount of its unhortful character and prompt absorption, hut practically it will continde to lee an indifferent suture until some one has discoveted a method of hecping it well secored, for the wirmth and humidity of the peritone al cavity relises and opens the rommon surgoon's krot. I have employed it in a case of ovanitomy to tie the vessels, and the post rurtem examination has but too well proven the truth of mas hat assertion. I have likewiee ued it durine the past few months on several occasions in plastic operations in the vicinity of the ragina, and in cach (ase, experting that it woud kee? the parts in apposition, the result was nevertheless a complete falure. Now, ance the only object of uterme sutures in Cerarian section is to maint in the incised partition walls in contact, to present hapids from entering into the uterine and peritoneal cavites, such material only should be employed in cases of this kind, as can be invariably reled upon.
I see by an article, written in an English journal by a writer whose name 1 cannot now recall, that he claims to have invented a way of making a knot with gut cord, which woald neither slip nor untic I have not tried his method, nur am I disposed, on account of my previous experience, to make my first appliration with it to the abdomen. It would yppar that up to the present time we ar: pos. essed of nothing superior for uterine sutures to silver wire and silk thread, and of those two the former is probathly the best.

As to the litule confidence we can have in gut cord fir uterine sutures, I would refer you to the trancactions of the London Obstetrical Society, vol. xvii, where a case of Cexsmim section is recorded by Dr. Oswald ; the operation was made by Dr. Routh, who closed the wounds of the utems with sutures of the best gut cord, firmly tying the same. The patient lived three dyys after the opera tion. "he post mortem examination revealect that the knot was relaxed and opened, so that a quantity of liquid escaped into the abdominal cavity, puisoning the patient.

The opinion of Dr. Routh coincides with that of the majority of his colleagues, that had he used sutures of metal or silk, instead of the gut he could have saved the life of the patient. Dr. Meadows adds, that it was the second case in which death could be attributed to the use of gut cond sutures on the uterus.- Mich. Med. Naces, June $18 ; 8$.

Tur Animes uf Surs don Marifacticeef the many suits for malpractice that have cume
under our utservation, we have scarcely ever known of one which did not exhibit on the part of the prosecution, a baseness of motive, and an absence of honor thoruughly dic, raceful to the human character. Nine times in ten the plaintiff is a paper who has received the gratuitous service of the man whom he prosecutes ; or worse than a p.uper, a sordid villain, who resorts to the expedient to evade p..jment, or as a business specula tion. There is aluays a ring, which is completed by one ir more jachals of the law, who are prompt to instigate litigation fur the purpose oif plunder, and one or mure medical witnesses of the sneaking and malicious type. The Paific Medial and Sursial founal.

Nen Cese of Bhldafonna.-We cannot too frequently direct the attemtion of the profession to the imaluable action of atropine, or belladonna in nisht sweats, sup prealent and prostrating a symptom in case of debility and in convmption. We have used it in the form of ponders of atropia Riogr. with sugar or $\frac{1}{4}$ to $\frac{7}{2}$ gr. solid extract, in pill form or 12 to 20 minim, of the tincture answers equally well. We have found the following formula almost a specific in phthisical cases with troublesome coughing:
le Atropia stuph. grs. i
Morph. sulph. grs. viij
Acid sulph. aromat 3 ij
Aqux menth ppad $\overline{5} \mathrm{i}$ M.-Dose-5 drops thrice daily, and at bedtime. The morphine and acid may be omitted, and in sore throat giving rive to collelhing, nitric acid may be substituted for the sulphuric with advintage in five drop doses.

The tincture is being used with advantage externally in night sweating. Mr. Nairne writes in the Bri ish Medial Foundal of February 2 , that for some litule time past he has employed the common pharmacopucial tincture of belladunna for sponging the body in cases of phthisical and excessive swcating, and invariaily with marked benefit. So far as his cxperience goes, he has found it much better than any thing else; if applied before a sweating comes on, it prevents it ; if during the sweating, it almost immediately contruls it. Two teaspuonfuls of the tincture mixed with an equal (quantity of whiskey are guite sufficient (applied with the hand), to cover the whole body and produce the desired effect.

Lacroreprine. - Pepsin is unquestionably a valuable remedy in some cases of indigestion, but dues not seem to meet all the requirements of many dy speptic cases. Lactopeptine is presented to the profesion as meeting all the indications in cases of mal-nutrition and non-assimilation, composed according to the formula, of Ptyalin, Pepsin,
Pancreatine, Hydruchloric and Lactic Acids. It is
claimed to be a combination of all the digestive agents. If we can presuribe chemically fur di,orders of the digestive function, such a cumbination would appear worthy of trial, and experience has demonstrated its value in many cases. Dr. Merritt remarhs: "The more my experience in its varied applicability extends, the more its beneficial effects appear." Baffaid Muliual and Surginal Foum nai, Dec. 1877.

Early Puberty:-Dr. H. Yates, of Kingston, Canada, reports the following extraordinary case of eariy puberty in the London Lanct: "The child, a female, is two jears and three months old. I was consulted by the mother, who supposed it had some mammary disease, there being a symmetrical enlargement of both glands. Struck by their appearance, I had the child stripped, and found what appeared to be a fully-developed woman! Abundance of hair on the pubes and in the axille. The genital organs, as well as the mamme above mentioned, seemed to be fully developed. For the last three months the child had menstruated regularly three days every four weeks. She was flusbed, and complained of headache and pain in the back and thighs while menstruating. She weighed fortyeight pounds."

Heat of the Brain. - The Lancet tells us that M. Broca has recently laid before the French Medical Association some curious facts concerning the temperature of different parts of the skull. By numerous experiments he has found that while at rest the temperature of the surface of the head is $.2^{\circ}$ Fahr. higher on the left side than on the right. When the brain is active, equilibrium is established. When continuous but moderate mental effort has been maintained for ten minutes the temperature is raised about $1^{\circ}$ Fahr. The temperature of the frontal, temporal and occipital regions of the skull are also different, that of the frontal region being more than $\pm^{2}$ Fahr. higher than that of the occipital. - Chemist and Druigist.

Galvanic and Faradic Currents in Neur-algia.-As a guide to the proper current indicated in the various forms of neuralgia, Dr. Rockweli says:"I find the eftects of pressure are exceedingly usefill. I would not lay it duwn as a law, but it will be found in the great majority of cases of neuralgia where firm pressure over the affected nerves aggravates the pam, the galvanic current is indicated, while the Faradic current has the greater power to rclieie, when such pressure dues not cause an increase of pain.-Med. So Surs. Brief.

Relative Dangers of Version and Forceps. -A Belgian writer, Dr. Kuborn, has examined the recent statistics of the Russian hospitals, to deter-
mine the relative dangers to the infant of deliveries by veision and by the forceps. He has collected the respectable number of 7,100 cases of habor where one or the other method was used. The results are in favor of the forceps. They showed a mortality of but five per cent., while version was followed by the death of the infant in eight per cent. of the cases.-Med. EO Surg. Repurter, Mhila.

A Deceptive Patient.-A story is told in the Reque Méducale de l'Est of a patient who lost his life by deceiving his doctor. The man was suffering from lead-poisoning. The physician, oddly named Professor Forget, prescribed strychnia pills, which produced no effect. The dose was increased successively to two, three, five and six pills, without any result. Finally the doctor ordered the patient to take five pills in his presence. The man did so, and died within two hours. After his death all the pills previously prescribed were found secieted behind his bed.

A Milk Test.-A German paper gives a test for watered milk, which is simplicity itself. A well-polished knitting needle is d pped into a deep vessel of milk, and immediately withdrawn in an upright position. If the sample is pure, some of the fluid will hang to the needle; but of water has been added to the milk, even in small proportions, the fluid will not adhere to the needle.

Chloral in Retention of the Urine.-Tidd noted a case in which catheterism having failed in consequence of the patient being pregnant, and no urine having passed for twenty-four hours, two doses of ten grains of chloral, one half an hour after the other, produced profound sleep and voluntary passage of an enormous quantity of urine.-Gazetle Med. de Rome.

Sewer Gas.-Amung many disorders which may arise from the cffluvia of drains and sewers, two have been recently mentioned in the English journals for the first time, viz: abscess of the cervical glands, and a tendency on the part of ulcerated surfaces to become sluggish and to yield to no ordinary management. Sumetimes these ulcers take on a diphtherituid appearance.

Ergot in Cardiac Diseases-Massini recommends ergot in simple hypertrophy and cardiac degeneration, when digitalis administered for some time produced no effect. In valvular troubles ergot $a_{1}$ pears to have but little effect. He prelers the preparation obtained by maceration.-MA. Med. Fulur.

Ovariotomy in a child of eight years was recently perfumed with success by Spencer Wells.

## The Canada Lancet.

## a Monthly Journal of Medical and Surgical Science

 Issued Promptly on the First of each Month. ontifte sulljerets, and atso lirponts of Cosses occurrinut in   to the "Eiditor" Cantila Laucre," Turouto.<br>agents. Darsor Bros., Montreal ; J. \& A. McMhlan, St. Johm. X.B.; Dr. (?. W. Bensacki, $271 \mathrm{~W} .22 n d$ St., New York; (Geo Strakt \& Co., 30 Cormiil, Lond,n, Eht. , M. II. Manler, 16 Rue de la Grange Batelere, Paris.

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## AN ANIMATEI) MOLECULE.

We are indebted to the talented author, Dr. Daniel Clarke Medical Superintendent of the Lunatic Asylum, Toronto, for a copy of the above interesting brochure of 42 pages, which we doubt not have cost the writer mucl. earnest thought and extended research. Were we as well versed in metaphysics as we are led to believe Dr. Clarke is, we should be better able to review his production in terms befitting its merits ; but, perhaps to our shame, we must confess, that though we have often tried to possess ourselves of some degree of competency in this branch of science, we have almost invariably retreated from the enterprise, with the blushing conviction that our mind was never designed for this sort of work, just as $\bar{B} u r n s$, dumb-founded and bedizened, in contemulation of the Allozolay witch scene, was forced to collapse, in the hapless lines :

> " But here my Muse her wing maun cour, Si- hights are far beyond her power."

So we, confronted with the eso and the non-e $e_{5}^{\circ} \circ$, the objective and the suljective, the comdituned and the unconditioned, et hoc gremus omne of writers on this transcendent department of philosophy, have ever been constrained to own ourselvesutterly impotent. Even since we read Dr. Clarke's pamphlet, we made some effort to qualify ourselves for the duty of understanding a portion of his ingenious argument, by searching for a clear exposition of the radical terms the ego, and the non ego, and we thought we could not seck for what we needed in a better author than the renowned Sir Wiliiam Hamilton, the Samson of "Common Selnse." Here was what we found in the wondrous treatise of this philosopher, in elucidation of the self and not self, alias ego and non ego.
"Whatever comes into consciousness, is thought by us, either as belunging to the mental self, exclusisely (subjectivo - subjective,) ur do belonging to the non-self exc'usively, (objectiro--objective,) or as belonging partly to both, (subjectivo-objective.)
It is difficult however to find words to express precisely all the complex corrclations of hnowledge. Fur in cognizing a mere affection of self, we objectify it ; it furms a subject object, or subjective object, or subjectivo-subjective object: and how shall we nanee and discriminate a mode of mind, representative of and relative to a mode of matter?"

Well, row, if our reader stands enlightened by the preceding agglomeration of subjective objects, and objective subjects, all we can say is that he is an apt scholar, and we congratulate him on: his facility of comprehension; but at the same time we are very much inclined to regard the metaphysical ego and its negative as very nearly " all in my eye."

Dr. Clarke tells us, "it," (the ego) "is a substance more subtle than the etherwhich pervades all nature." Who, after reading Hamilton's above cited explanation, wili for a moment doubt the subtlety of the artful dodger? It must be "the highest development of that entity called magnetism," for it certainly magnetises, and mesmerizes likewise, all who approach it. Why! it must be one of the staff of that master spirit, which has been styled " the prince of the power of the air," and everybody knows what an uncanny metaphysician he is. Let no one wonder then, that we take our leave rather precipitately of this part of Dr. C's essay, yet we must be pardoned for this expression of our doubt, as to the efficiency of Dr. C's sindication of the non-materiality of mind : for ultimately to assume, that this entity is but a super-refinement of magnetism, comes, in our interpretation of language, so very near to materialism, that we fail to realise the difference, though we are perfectly sure that any such conclusion must be utterly antagonistic to Dr. C's convictions.

We cou!d very much have wished that Dr. C. had seen his way clearly through his subject, so as to have avoided the metaphysical obscurations which intrude between our dull optics, and a distinct understanding of his ingenious arguments ; for we confess that we have an almost never failing admiration of everything that comes from his gifted pen : and what is still more and better, we
have the very highest respect for the honesty and purity of purpose which actuates him in all undertakings, and upon all cuasions. We do not hesitate, therefore, to recommend to all our readers, but especially to such as are gifted with higher metaphes sical competency than we dare pretend to, the careful prosasal of the animated moleale. None can fail to be surprised at the amount of powerful writing, with which a talented author can ent clope so minihin a thing. How many volumes, in like propur:iun, should be devoted to a whale, or a megatherion ? After all, what stronger proof outside of Divine revelation, can we have of the caistence of our suul, than our own simple conviction?

## THE GREAT SYMPATHETIC.

We have just risen from a perusal of an interesting monograph by Dr. Bucke, Superintendent of the Asylum for Insane, London, Ont, on "The Moral Nature and the great Sympathetic."

The office of the numerous ganglia, placed in the course of the sympathetic nerves is perhaps the most obscure point in the whole range of physiology. Sume have regarded them as so many brains, by which impressions are received through the branches, of which each ganglion is the centre, and from which, excitements to motion are sent out; others have believed that they exercise a power of isolating the orrans they supply from the influence ( $f$ the mind, or of obstructing the constant passige of impressions to and from the brain. Many other functions have been supposed to be performed by them. Dr. Backe considers them to be the especial channels of the emotions. The sympathetic nerve or system of nerves, has rceived its name from the idea that it is of ultimate importance in the phenomena of what is called sympathy, in which one part of the body is affected in consequence of some peculiar condition of another. A great number, however, of the phenomena, formerly regarded as the effects of sympathy are now clearly explained by reflex action of the cerebro-spinal axis; many others depend on some generally operating influence as a peculiar condition of the blood, \&c., \&c. Dr. Todd in his physiology remarks, "Two questions are to be solved. rst Is the sympathetic a distinct and independent portion of the nervuas system or is it ceive no other nerves, such as the kidneys. That,
merely an off-shoot from the brain and spinal cord, exhibiting certain peculiarities of arrangement. and. Do its fibres exhibit the same powers as those of cerebrospinal nerves, that is are they sensitive and metor?" That the organs chiefly supplied with the spmpathetic nerves are eutirely independ. dent of the cerebro-spinal system, and will maintain their actions for a tim: cuenafter removal from the body, there is no lack of evidence. The peristaltic motions of the intestines, the contrac. tions and dilatations of the heart of some animals tortoise especially -will continue for a long time after their remusal from the body; or after all the nerves passing to them have been divided. $\mathrm{T}_{0}$ the second question we reply that numerous ex. periments of irritating the ganglia of the sympathetic, to see whether it produces pain, have had unsatisfactory results. Nor would any results be conclusive, because the ganghon like parts of the brain might be insensible to injury, though fully capable of perceiving the impressions transmitted to them through their nerves. The pain of the diseases of internal organs is amply sufficient to prove their sensibility, though it does not determine whether the impression of pain is conveyed through filaments of the sympathetic system or through those few of the curebrospinal system which are mingled with the former in the common sheath. Dr. Bucke in his first paper on the sympathetic, read before the Association of Medical Superintendents of American Institutions for the Insane, held at St. Louis Mo. in May $\mathrm{IS}_{77}$, puts five questions, ist. Is it a motor nervous system, if so ;in what sense? 2nd. Is it endowed with sensation? 3rd. Does it control the functions of the secreting glands, as the gastric, mammary, intestinal, salivary, lachrymal, liver, kidneys and pancreas? $4^{\text {th. Does it in- }}$ fluence the general nutrition of the body, and if so, in what manner? 5 th. Is it the nervous centre of the moral nature, that is of the emotions? To the first he adduces evidence in support of the great sympathetic being a nerve of motion to unstriped muscular fibres, the exception, being the circular fibres of the iris, supplied by the third cranial nerve. To the second question, whether it is sensory, he answers in the negative. To the third he argues from instances quoted, that the great sympathetic can, and does, exercise a controlling influence over the secretion of glands which re-
as it is at least equally distributed to other glands which receive cerebro-spinal nerves, and no other function appears for it to periorm, it mfluences the secreting functions also. That the testes are supphed with cerebro-spinal nerves, whilst the homologous organs in the female are nut. That cerebro-spunal nerves, when sent to glands have another obvious function to perform, besides that of contrulling the secretions of thuse glands, and that it is consequently unnecessary to suppose that they do this likewise. 4 th. In support of the belief that the sympathetic does influence the general nutrition of the body, Dr. Bucke thus argues: "The nutrition of paralyzed limbs though not up to par on account of want of exercise, is still pretty well kept up; while if those limbs could be deprived of sympathetic nervous influence, instead of cerebro-spinal influence, we, have reason to believe that their nutration would fail absolutely, and that they would die. All arteries are accompanied by sympathetic nerves, besides which, there are without any doubt, as, pointed out by Davey, in his work on the great sympathetic, bundreds of minute sympathetic ganglia scattered among the tissues and organs of the body, which send filaments to parts in the neighborhood of each of them, so that the distribution of the great sympathetic nerve, is probably, absulutely universal, while the distribution of the cerebru-spinal system is far from being so." 5th. That the sympathetic is the nervous centre of the moral nature, that is of the emotions. For our readers to be enabled to grasp fully lor. Bucke's reasons for the opinion, that the moral and intellectual nature are essentially distinct from one another, we must refer them to his two papers on the subject ; the first in the October number 1877 of the American Journal of Insanity ; the second read before the Association in May, 1878, and published by Ellis, Roberts \& Co., Utica, N. Y. They may not agree in every view of the author, but they will certainly read the papers with pleasure, and consider them to be possessed of great me:it. Our space is too limited to permit a disquisition upon dogmas, that might by some be viewed as arbitrary, and as a new departure from previously recognized views of the indivisibility of the moral and intellectual natures as centered in the cerebro-spinal system.

## THE FEVER SCOURGF.

A correspondent sends us the following. - It is a mistake to suppose that the present fever scourse raging in the South is the most severe that has eser been hnuwn to our nciohburs. In furmer years it was much more severe than it is at present. Take new Orleans alune, and up to the present we find that there have been a little more than three thousand five hundred daths, and the maximum deaths, we find, has been ro3. But if we go bach to $1 S_{53}$, we find that there was as many as 250 deaths in a single day. During the munth of August in that ycar there were, on an average, i 80 deaths daily, and this too when the pupulation was only 80,000 , much less than it is at present. Out of :his 80,000 it is reported that 20,000 died during the season, a mortality which is far in excess of that of the present time. The sanitury regulations of New Orleans are still very defective. The ground is low and swampy, and we must attribute the existence ( $f$ the disease in $\mathrm{IS}_{53}$ to the then bad drainage. But worse than this took place at Barbadoes in the year ${ }^{1} 647$. This is the earliest notice we have of yellow fever, and we find it in "Legon's IIistory of Barbadoes." He tells us that in that year, before the expiration of a month, "the living were scarcely able to bury the dsad," Again, in 1793, the yellow fever destroyed no less than $6,000 \mathrm{men}$ of the garrison of Port Royal in the course of a few months. In iSo the yellow fever was brought to the South of Sipain, and visited Cadiz, Malaga, and Carthagena. In the same year it destroyed more than one-half of the population of Gibraltar, for out of a population of 14,000 souls, only twenty eight escaped attack. In 1793 -there were 3,500 people died of yellow fever in New York, when it had only a population of 50,000 , and in 1822, about 200 people died of the same disease in the same city.

It is consolatory to know that the present scourge is nearly at an end.

## STRYCHNIA AND ITS ANTIDOTE.

A correspondent in an exchange says: Wanting to banish some mice from a pantry I placed on the floor at night a slice of bread spread over with butter, with which I had mixed a three-penny packet of "Battles Vermin Killer," which contains
about a graun of strschria along with flour and author, and bearing a motto on the out, id. The Prussian bhe. The following morning I was roused by a servant telling me that a favorite Skye terrier was lying dead. I found that the mice had dragged the slice of bread uuderneath the locked door, and that the dog had thus got at it and caten part equal to about one-sixth of a grain of strychnia; it lay on its side perfectly rigid; an occasional tetanic spasm showed that life was not quite extinct. Having notes of the experiments made by direction of the British Mredical Association last year on the antagonism of medicines, and wherein it was conclusively proved that a fatal dose of strychnia could be neutralized by a tatal dose of chloral hydrate, and that the minimum fatal dose of the latter for a rabbit was twenty-one grains, I at once injected under the dog's skin forty-five grains of the chloral in solution, my dog being about twice the weight of a rabbit. In a quarter of an hour, fancying the dog was dead, as the spasms had ceased and it lay apparently lifeless, I moved it with my foot, when it at once struggled to its feet, and shortly after staggered to its usual corner by the parlor fire ; it took some milk, and except for being quieter than usual, seemed nothing the worse for the ordeal it had passed through. That the fatal effects of a poisonous dose of strychnia were thus counteracted so successfully by what I should say was a poisonous dose of chloral, given hypodermically, is an interesting fact verifying the experiments I alluded to. Without such experiments on the lower animals, a medical man might often be found standing by, helpless to aid his fellow-man under similar effects of poison.

## PRIZE FOR ESSAY ON HYDROPHOBIA.

A prize of one hundred pounds sterling has been offered for the best essay on "Hydrophobia, its Nature, Prevention and Treatment," by V. F. Bennett Stanford, Esq. M. P., to be awarded by the Royal College of Physicians, London, England. The prize is open to any one who chooses to compete for it. The conditions are as follows: (1) The Essay must be in English, or accompanied by an English translation. (2) The Fissay must be delivered to the Co!lege on or before January ist, 1880 . (3) Each Essay to be accompanied by a sealed en-
same motto to be inscribed on the Essay. (4) The Essay may be the juint production of two ot more authors. (5) The Esiay if not published by the author within a year, to become the properts of the College. (6) The Prize not to be awarded unless an Essay of sufficient merit be presented.

The questions which are thought by the College specially th require investigation are: (a) The origin and history of outbreaks of Rabies, particularly in the United Kingdom and its dependencier. (b) The best mode of prevention of Rabies. (c) The characteristics of Rabies during life, the anatomical, and chemicalchanges which are associated with the disease in its successive stages, particularly in its commencement. (d) 'The origin of Hydrophobia in man. (e) The chemical and anatomical morbid changes observed in the subjects of the discase, with special reference to those having their seat in the organs of the nervous system, and in the sali. vary glands. ( $f$ ) The symptoms of the disease particularly of its earlystages as illustrated in well observed cases in its commencement. (g) The diag. nosis of the disease in doubtlul cases, from conditions more or less resembling it. (h) The al leged prolonged latency of the malady. (i) The efficacy of the various remedies and modes of preventing the disease, which have been proposed, and what plan of treatment, whether prophylactic or curative, it would be most desirable to reconmend for future trial.

## MANITOBA AS A HEALTH RESORT.

The climate of Manitoba-the new Province of of the Dominion-seems in its dryness and general salubrity especially adapted to the necessity of persons troubled with bronchial affections and incipient phthi,is. The water of the red river is strongly alkaline, so that persons new to that district are somewhat troubled to make use of it. Several cases of debilitated health from incipient lung and heart affections, have been completely restored to health by a sojourn of two or more years in Manitoba, and the Nurth-west, and while we are unable from lack of sufficient data, 10 particularise or discuss the pros and cons in detail, yet, nevertheless, sufficient infurmation has come to our
that the chmate of Manito'a and the Niorth west, offers signal advantages to the invalid, and especialiy to sufferers from incipient constitutional affections of any kind.
We trust ere long to have valuable communications upon this matter from resident physicians in the district, of long experience, which we will lay before our readers.

Colege of Pihysictans and Surgeons, Qee-BEC.-The semi-amual meeting of the (;overnors of the above named college took place at Quebec, on the $25^{\text {th }}$ Sept. The following were present: D. J. P. Rottot, President ; C. E. I.emicux and R. P. Howard, Vice-1residents; A. (i. Belleau and A. Dagenais, sec's; L.. La Rue, Registrar ; J. A. Sewell, E. A. De St. George, W. Marsden, M. J. Ahern, I. Wells, F. W. Campbell, E. H. Trudel, A. H. I avid, E. P. Lachapelle, A. T. Michaud, J. Marmette, L. Tetu, C. Gingras, L. J. l.. ¿ลousseau, P. A. A. Collet, J. 13. Gibson, J. Prevost, A. Rivard, L. D. Lafontaine, E. Laberge. Hon. A. H. Paquette, F. X. Perrault, P. E. Mignault, N. H. Ladouceur, Hon. J. J. Ross, M. G. F. Badeaux, F. D. Gilbert and F. Jare. Drs. W. E. Scott, of McGill College was appointed a (iovernor in place of Dr. Fenwick, resigned ; E. Ives, of Coaticook, in place of Dr. Wurthington, resigned ; and H. St. Germain, of St. Hyacinthe, in place of a member deceased. Dr. E. P. Lachapelle was appointed Treasurer.
The following graduates received the license to practice on presentation of their degrees: A. Noel, M.L., E. Morin, M.L., A. Vincelette, M.L., J. E. Bolduc, M.L., A. Methot, M.D., H. Sirois, M.D. A. Watters, M.D., A. i rauvreau, M.L., H. Trudel, M.L., L. O. M. Bellemare, M.L., P. P. Delaney, M.L. of Laval University ; and J. McKinley, M.D., C.M., and C. N. Stevenson, M.D., C.M., of Mc Gill University. Messrs. C. M. Draper and L. H. Annable passed a most successful examination and obtained the license.
The following examiners were appointed for next meeting :-Anatomy, Dr. C. E. Lemieux ; Surgery, F. W. Camplbell; Med. Jurisprudence, F. Pare; Physiology', E. P. Lachupelle ; Medicine, F. D. Gulbert; Matiria Medica, L. J. E. Roussean; Midaufers, E. H. Trudel ; Botany, M. G. E. badeaux ; $H_{3}{ }_{3} i c n e$ and Chemisti.y, M. J. Ahern.

Candidates for the next preliminary or matricu-
lation camination can apply fur information to Dr. Howe, Muntral High School, Rev. Mr. Ver reau, Montreal Jacyues Cartier Normal School Rev. Dr. Lallamme, Quebec Seminary, and Prof. M. Miller, Quebec High School.

Minfral Walers.-The prescribing of mineral baths and waters forms, at the present day, a prominent feature in medical practice, but from the number of springs with which the land is blessed, it is sometimes perplexing to make a proper selection. The Caledonia Springs, however, situated between Montreal and Ottawa, near the Ottawa River, liase taken a prominent position, and from their long use, their properties have become thoroughly known and appreciated by the profession at large. The white Sulphur water, here, while of a superior chi: acter, is greatly aided by the other saline waters beside it, making the curative qualities cover a wide range of diseases. The complete recovery of many visitors to these Springs is really wonderful, especially in cases of rheumatism, dyspepsia, blood and skin affections, and diseases of the liver, kidneys, bladder, \&c. The Grand Hotel offers the best accommodation, but every class of visitors is well provided for. The season is from June to October.

A Wooden Man.-A lay figure, the counterfeit presentment of a man, which is being exhibited in Brussels, is described by a London correspondent as by far the most remarkable invention of the kind which the world has yet produced. It is by a Frenchman named Fabre, who has spent twenty years in getting it up. The figure has organs of speech corresponding to the human, and in the rear a set of keys to be played upun for producing a very good imitation of human articulation. Whether called a piano-man, or a man-piano, we are not informed. The writer adds: "This talking Psycho can, in fact, carry on a conversation; and the movements of its mouth are so like nature that the machine is to be used for teaching the deaf and dumb how to carry on a system of speech by imitating the lip movements of the talking figure.

A New Batiekr.--The Boston Juarnal of Chemistry says that an Italian professur has devised a new battery, based on a fact furguten hitherto, though known to science-that of the dissulving of siac in a solution of sulphurvus acid, without the
least development of hydrogen. His battery, made! on this pranciple, is saci to act excellently, and to give a very s:rong current. The inventor calls attention to a curious phenomenon observed in the course of his experiments. When the zinc plate is immersed, cither in a solution of sulphurous acid or in one of bisulphite of potash and sodin, the liquid is observed to lose color at first, then become for a few seconds of the same colvur as a solution of bichromate of potash; this coloration commences at the zine, and is diffased in the mass, as if absolutely independent. No salts of zinc are known to give such , colour.

Corrbction.-In our seport of the proceedings of the Canada Medical Association, is is stated that a "motion was passed that in future, all papers be read before the discussion takes place, Dr. Canniff, objecting." The facts are,-Dr. Bucke suggested that it would be desirable to have all the papers on the programme read before discussion on any took place. Dr. Canniff, disagreed, and the matter dropped.

The death of 1)r. W. L. Atlee, of Philadelphia, from cancer of the stomach is announced in our exchange Journals. He was 7 I years of age. He was a great advocate of ovariotomy, and has left behind him a work on tint subject which embodiea his own experience in upwards of three hundred cases.

Journalistic.-The Cincinnati Lancet and Observer and the Cincinnati Clintic have been consolidated under the name of the Cincinati Lancet and Clinic. It is issued weekly and is one of the hest journals published in the United States.

The Ohio Medical and Surgial Reporter has heen discontinued.

Sir Robert Peel, speaking of Lord Eldon, said that even his failings leaned to virtue's side, upon which a bystander observed that his lordships failings resembled the leaning tower of Pisa, which, in spite of its long inclination, had never yet gone over.

Professor Schivann, author of the cell theory, is teaching physiology in the Belgian University: A festival was held lately at Liege, in honor of the fortieth anniversary of his professorship.

Dr. Demaragny, liovernment Inspector of Pri sons and Asylums, Quebec, has been engaged on a minute Inspection of the Beauport Asylua.

Remorals. -llr. Philp of Waterdown, has re moved to Hamilton. Dr. S. E.. McCully of Morpeth has removed to Waterdown.

Dr. Dupuis, of Kingston, has been delivering to the teachers in training at the Fromenac Model School, a course of lectures on "Hygiene."

Cononer.- S. E. McCully, M.D., of Waterdown, to be an Associate Ceroner for the county of Went. worth.

## ditports of sucatics.

MICHIGIN STATE HOARD OF : EEALTH.
The regular quarterly meeting of this board oc. curred July 9 th, 1878 , at Lansing, all the members being present as lollows: Dr. R. O. Kedzie, Piestdent, Dr. H. O. Hitchcock, Dr. H. F. Lyster, Hon. L. Roy Parker, Rev. D. C. Jacobes, and Henry B. Baker, Secretary.

The subject of a text book on hygiene for com. mon schouls was discassed. No members of the board had seen a book suitable for such use, and it was thouglit very desirable that one be prepared. Dr. Hitchcock then offered the following resolutions, which were adopted:

Resolied, That this board respectfully request the board of regents of the U-niversity of Michigan and the Trustees of the Detroit Medical College to establi-h in their respective institutions, at the carliest practicable moment, full chairs of public hy. giene and fill the same with thoroughly competent professors.

Resocical, That this board respectfully request the contooling boards of all the collegiate institutions as well as the high-schools of the state to set that a course of instruction in public hygiene be given in each of their several institutions.

Dr. Ljster mentioned that in the interests of public health the had delivered a course of lectures before the medical class at the University of Michigan during the past six months. He presented a syllabus of each lecture delivered.

Dr. Kedzie presented some results of his investigations on the subject of lead poisoning by the use of tinned ware and other vessels containing lead.

The subject of Sanitary Conventions was considered, and after some discussion in regard to the
kind of subjects to be treated, and their mode of treatment, it was voted to hold such a convention at Coldwater, Mich., during the coming winter, being invited to do so by Dr. J. H. Beech of that city. The secretary was directed to make the necessary preparations.
Invitations were also received to hold Conven. tions at Pontiac and Detroit, from Rev. D. C. Jacobes alid Dr. 1.jster, who on behaf of the citizens of their respective cities, promised active efforts for the success of such meetings.
One interesting feature of these meetings is the exhibition of all sorts of santary appliances, a kind of sanitary fair where all interested can exh bit or examine articles designed to meet the wants of the people in their efforts for public and private healh.

## Bontis and zimplats.

Ziemsta's Chciopfdia of the Practice of Medoline. New York: Wim. Wood \& Co. Toronto: Willing \& Williamson.

We are in receipt of three solumes of this great work. Vol. VIII on "Diseases of the Chylopuretic system; Vol. XIII, Diseases of the Nerrous System, and Vol. XVII, Disturbances of Nutrition and Poisons. The translation from the German of these elaborate treatises, now approaching completion, will supply a great want in our medical literature. It is true that we possess a mass of valuable works from English and American authors, on the Theory and Practice of Medicine, replete with careful observation and clinical instruction, and which for the student and busy practitioner, contain all the information that ordinarily is required. In Germany, however, superior means for carrying on anatomical and paihological enquiries have long existed. These opportunities I)r. Ziemssen and his collaborateurs have most diligently availed themselves of, and as a result, have presented to the medical world a Cyclopædia, remarkable for the deep research, great variety, and importance of the subjects treated of. The various translators have executed their task admirably, and the publishers have spared neither pains nor expense in furnishing volumes remarkable for neatness of binding and beauty of paper and type. Volame VLII treats of the "Diseases of the Chylc.poietic system," with chapters relating to
diseases of the bladder and urethra, and functional affections of the male genital organs; the various contributors being Prof. F. A. Zenker of Ellanesn, Prof. H. Von Ziemssen of Munich, Prof. Mosler of Griefswald, Prof. I'riedreich of Itidleberg, Dr. Merkel of Nurnberg, Dr. Baaer of Munich, Jrof. Lebert of Vevay, and Dr. Curschmann of Berlin. The suljects treated of are diseases of the exsophagus, peritoncum, spleen, pancreas, bladder, suprarenal capsule, urethra, and male go mital organs.

Vol. XIII is devoted exclusive!? to " Diseases of the Spinal cord, and Medulla Oblonyata," ly Prof. Erb of Heidleberg. The first one hundred and fifty pages are devoted to an anatomical and phystological introduction to general symptomatology and etiology. Diseases of the membranes of the cord are then taken up, afterwards those of the spinal cord proper e.s. hypermemia, anmmia, spinal apoplexy, wounds of the cord, concussion of the cord, spitalitritation, spinal nervous weakness. slow compression of the cord, myelitis acute and chronic, ryelomalacia or softening of the cord, multiple sclerosis, charecterized by the development of numerous insulated sclerotic nodules, varying in size and of a chronic, inflimmatory nature, scattered irregulanly throughout the entire cord, and usually also throughout the entire brain, a disease of youth and middle age; tabes dorsalis or grey degeneration of the posterior columns, - the progressive locomotor ataxy of Duchenne, spasmodic spinal paralysis, the sclerosis of the lateral columns of Charcot, the main symptoms being paresis and spasm, hemiplegia and hemi-paraplegia spinalis, including traumatic injuries, inflammation, compression, sclerusis, tumors and syphilis; poliomyelitis anterior acute, or acute inflammation of the grey anterior columns, first described by Janb Von Heine, subsequently confirmed by Curnil, Prevost, Vulpian, Lockhart Clarke, Charcot, and others, and polio-myelitis anteriur chronic, or chrunic inflammation of the grey anterior horns, first pointed out by Duchenne. The latter disease is associated with complete flaccidity of the muscles and loss of their reflex excitability, followed by rapidly progressive atrophy in the bulk of the paralyzed muscles. Acute ascending paralysis described by Landry in $\mathrm{I}_{5} 8_{5}$, is clinical:y characterized by a motor paralysis generally beginning in the lower extrencties, and spreading rapidly over the trunk to the upper extremities.

Men are most frequently attacked. Of the sixteen' canes cullated by Levi, ouly four wate in women. Secundary degeneration of the spinal cord, disenses of the brain, descending secondary degeneration of the promidal tracts, the diseases of cord itsolf, and peripheral nerves, are all of them wall illustrated. Defurminias and malfurmations of the spinaid cord, are abo treated of, e.s. absence, imperfeit debciupment, and duplication of the spinal cord, anomalies in lengh and thichoses, cougenital eniargement of the colltal canal in tite spinal cord, abnomal accumblation of had wihin the casity of the dura mater, in connection with . greater or haset degree of .deration of the vettebtal column, constituting what is called spina bifida,saltatory spasm from increased reflex irritability of the spimal cord, intermitent spinal paralysis, toxic spinal paraly is from puinoning ly cub min waid, sulphide of carbon, tobaces, camphor, ergot, absinthe, mushoons, also the sovere acute piralysis of nervous system, evoked by opium, belladonna, strychnia, and paraplegia dependent on idea, first related by Russell Reynolds, and since met with by Prof. Erb. Forty-wo pages are devoted hy Prof. Frb, to the anatomical and physiclogic at introduction to dieenses of the medullat ublungata. He then treats of hyperemia and hemorrhage, anemia, injuries and wounds, acute bulbar myelitis, progressive bulbar paralysis, scletotic centres, diffuse sclerosis, and as a finale, tumors of the medulla oblongata.

Our readers cannot but acknowledge that the 957 parce thas siten to diseases of the spiand cord is the most exhaustive dissertation on record.

Fuwne's Mantal of Chemisiry. Theurethal. and Practical. Revised and currected by Hears Watts, B.A., F.RS. New American from the 12 th English edution. 12 mo . Philadelphia: II. C. Lea. Turonto. Willing di Willamsun.

The rapid strides which are bein's made in the department of c.emistry, render it necessary to revise and correc: the text books frequently. This manual is still the student's favorite. The English edi!ion is in two wolames, but the American edition i, presented in a singit $\mathfrak{l}$ : me withuat any abridg. ment. The metric system is used throughout, but the equivalent terms in comnton use are still rethiued in brackets. We cordially recommend the book to students.

Alias uf Shin Disbases, Ly Louis A. Duhring, Di.D, I'ruf. of shin Distases, P'cminslvania Hos pital, P'art IV. Philadelp'iia: J. 13. Lippincoth Toronto: Willing \& Williamson.

The present atmber contaims beautiful plates of Vitiliz', Alopecia Alcato, Tinea Favosa, and Fc coma (rulirum). The teat whichaccomp.nies the Phte inof the most valuable and suiegestivecharacter, The work sustain. in ever respect, the favoable opinions capresed regarding the numbers that have ben ruceired. While we fully believe that skin di-case are best stunies clinically jet the vivid pictures heie given camnot fail to aid the practi: tionar graitly in the diaginosis of these affections.

Apromimpats.-W. H. Eillis, M.A., M.B., has lecaldpeinted assistant Piofesour of Chemistry in the schoul of Practical Scinnce, Puronto.

Dr. W. 'T. Stwart. his been appointed to the chair of Prectical Chemistry, in the Irinity Medical School, 'Toronto

Dr. W'm. Osler has been appointed cne of the attending phosicians to the Montreal General Hospital.

Dr. Mc Phedrain has been appointed lecturer onit But.my and Zuolujs, in the Trinity Medicalk School, Toronto.

Matriculants in Medicine, Toronto Uni versitr.-T. M. Milroy; E. R. Woods.

Scholarship.-T. M. Milroy.

## Bittus, athariagrs, 思atho.

At Brampton, on the gth ult., the wife of D Heggie, Mi.D., of a daughter.

In Turuntu, on the joth Sept., the wife of H. Howitt, M.D., of a daughter.

On the 29 th ult., A. H. Hughes, M.D., L.R.C.P Edin., M.R.C.S., Eng., Surgeon, Bombay Army, tot Louisa Rusalind, youngest duafter of H. G. Ber nard, Esq., of Toronto.

At Newmarket, Oct. 23, J. W. Smith, M.B. Sheffield, to Miss Marion K., daughter of Silas Lundy, Esq. Newmarket.

At Walkertun, Uct., 3rd, J. J. Cassidy, M.D. of Toruntu, to Appic A., daughter of A. Mesner, Walkerton.

In Montreal on the 29th ult., Dr. Park, of typhoid fever.

On the $7^{\text {th }}$ ult., Dr. Davignon, of Longueuil,Que.


[^0]:    *" '̀nivercality, U'niformity, Precision, Significance, Brevity and completeness. A syutem of weights and measures born of philosophy rather than of chance."-c'harles Siamner.

