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## TEIN

## CANADA LANCET;

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## 05

# MEDICAL AND SURGIGAL SCIENCE, 

CRITICISM AND NEWS.

VOL VI.

TORONTO:
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## Original Communiations.

M.AI.ARIA.


As malarial fever presails over a large portion of the habitable globe, it necessarily follows that the subject of this article deepds concerns millions of the human famuly: Unfortunately to get the whiject is but mperfertly understood, and the probability is that it will always remain so $A$ good deal however has come to the suriace, wth which the general pratitioner should make himulf acquanted. That simple case of aize, which the medicat man may see in many focalities throughout Ontario, is capable, under invomble circumstances, of underyoing important changes, until at hast it presents itself as a tatal scourge. leggrawatd ague is the scourge of Indin, where it deatroys its countless thousands, and where it has shan bundreds of our own brave and adsenturous country. men. Malignant aguc, or what is the same thing, malarial fee er, is the terrible messenger of death of whelt we hear so much from African travellers. It Is the malignant fever of the Meditermencan const, and of Central and South America. Mabrial fever in hnown by difieremt names, according to the tope it assumes. The simple form being vitgarly called dothe, chill fever, or "the shakes;" bat more properly intermittent fever. A more aggravated type is called remittent fever, or bilious remitent feser. Then we have the type called by Flint typho malarial. Maharial ferer. too, is sometines designated by localities, as " 1'mama fever," "Lous. ians fever," "swamp fever," etc. It is met with in many of the richest and fairest portions of the earth. It even seeks by preference the fertile river valley, with its redundant foliage and productuse
belds; it follows man to the hill-sides, and rings him out on the mountain tops and shys him the re. It repperts meither age, remh nor wer.

It is a matter lor thankfulneos. that while on many parts of our carth are thus sourged, there ate other and larger portion, free foom the more manitest destructan of thiv fell destroyer, and that we hase it in our power to shan his final breath.

The arca within which malamal piven worh, it, eval conseqpences, may be detined with thore or les decaracy: The toporsraphy of our country as relating to malatis, 1 do not find ay where described. Whate practising my protersom for stserat years in the town of Surma, my attution was forct bly drawn to the subject of malaria. from its prevatence there and in the surrounding country : but poosibly still more surcibly, from personal and family experiences, illustrative of the cril entects of malaria on the constutution. The great malaral district of Western ontario is bat a tmotion of a luxger malaral detrict, extendme beyond the waters eparatirg Ontario from the state of Michgan. The northern ioundary of the Cu, utan secteot of the divenct mas be located a short dishance south of lengield, on the cont of the Huron. From that point, it includes a breadih of atew miles from the water, rumang south to P'ukhill, which viltege lies not fiar trom the southeavern comer of the lake. From thas point it desumes a greater depth, and embraces the country bing to the west and south, namely, the whole of the countice of lamben, Kent and Fower, with a part of Mtodkse , und perhap a small portion of Eigin. The r.ore mensely malariat part of the section is the wheh fies along the st. Clair riser, the se st. , hair and river Detroit, cepecially that bounding on hatest Clar. Within the ateathusdesenbed, malsnal fever may be seen and studed in all ns forms, except the heot malignant, whith is rarely met whth on the Canadua stde. The dmernan porton of thi district is very extensise, and embraces nearly the whole of Michigan, a bart of Ohio, north-eastern and north-western Indhana and northeastern Illinois. The entensity of the pouson suries greatly with the locality, being more mahgnant where the factors of the production are most abundant, as in the vicmity of low and mashy coast, along the courses of the rivers, or in the neidhborhood of swanp, bemg athont aboent on some of the highland. In the early settement of Mich
gan, the inhainams sutterd beyond decriphion.' 'dartion, is whtis iently pronel by the divave being









 telegeaphed to, and they went for the romainsThes brought back whin them the mivare pres: scribed by the doctor, immp beliesing that the young man wis fohomed, so vadden was his death- | I told them he istas mest cerainiy poioned. but ; not by the smphe remine mutare summited for; analysis: he was poivoned by malana. How, strange it is that people will settic in such pertifcrons regions, when healher and finct pertion of the eath remain unoceupied and neglected. But, to retum to our oun country. With the exception of the malarial detrict already described, fortunately we hase no other of any great magnitude. The valley of the firand viver, beginning in the netghborhood of Calcdona, monks second as a malarial ditrit, both as to its evtent and tice intensty of malanal porson. Madaria prevals also at the mouth of most of our meer, but wetally emitracing only a suath area of country, the poison being fecble from attemation. In addition to these, we have smaller district: scatered here and there over the face of the country, where malaria is more or fess rife, but rarely manifoting teself in a more aggratated form than simple $a_{3} w$.

Cutsuos:- At frot sight it appears casy enough to define the canse of malarial fever, but on closer examination at will be found a most diffirult ques. tion, being involved on the deepest mistery, and to be unraciled only by pateent investgatom, aided by all the tight the selences can attord. On this head, Hent has the followng:- "The causation involse a special morbitic agent, commonly known as malaria. The production of the special cause was atributed to vegetable decompostion in marshy localities, and called marsh masm, (1717) by I ancisci, an Itadian writer. Thas doctune and the nate have since been very generally adopted. But that something more than ordinary vegetable decomposition is requate for as pro-
ceival as the wataial factor of matins, yet we are toddy. Flom and other wherner, that there condition ate present in vome low ittic, where they fail to senerate natane, and, on the other
 shere thee firtors are atment ' Cleatis, then, the quetion is involsed in math mistery . It that wh lo sand whit cortaints s, that malurax eftexts by peference los and mont localtes This is eminently unatisfactory, at must be confe wed. Is yet, no storesofal attempt hes been mode at ckar ing up, the myitery Beyond the suppored dis(contry of Dr Salubury, of Citevinat, Ghos, we have nothins definite. Some yeat aso that gendeman pubhshed a paper, wheten be rlamed to have diccosered the real cause of malaria. In all agecioh bocaltic, he profened to have found a opecies of aliond phant- calld patmelle. On evamining wth the mictose ope, the whiva and arine of persuns restimg in aguenh lealthe, Dr salisbury ells us he docovered spores of the alsoid tyec. Besides, he cypermented wath the plant on thealthy persons, reading in situations free from malarix, and produced cases of agte. I am unable to tiad that Ir . S. followed up his investagation, or that his discovery has been accepted by any authorny on the subject. Some writers hawe attempted to cear up the question by ascribing to mone a nentraliaing power, thas makins the presence of malaria dependent on the absence of ozone. That a fourth agent or factor plays an important part, cither in the gencratton of madaria or by modifyng or neutraliang it, is beyond peradenture. That the existence of such an agent defends on a local cause, must be evdear. It is more than problematical that such local cause is of a geological character, ceercrsing some mportant electrical intlu. ence. "What hife ts, we hnow not; what life does,

[^0]a, in rerい"Ruble mity, the mimection , on inti. lochlutio. pectatly not con. ic mornh ure and ? Ht 4 re re
M. we it the es "hicte - other reltucs :n, th: \# $\mathrm{H}_{\mathrm{h}, \mathrm{t}}$ wilexts his is
l. .1s ilarr
dis-
hnow well," said linnaws, the great naturelit se word will apply with almest (qual force to - precent knowledge of malaria-what it in, we ow nut, what it doce, we hnow well.
Vegetable decomporiton hav alma, been con velerd as avotated with the production of mata ring If the is exontial, will some one cyphin the Irevalence of malaral fever at a ume when all mature, mareh as well as highland, is cluthed in the deepent areen, ewary blade, by its heath and vigor, proclaming the life that is in it.

Contrimon--Contrary to the received opinion. I believe, under faverable circumstancer, malatial liver mayy be commumicated by one pereon to ano ther. Flint seys we have no prout of this. On: of the arguments ured by him agame the cont: gioushess of ycllow tever in, that "it is producest without the body.' Well, most wnters adme typhoid feter is produced without the lwady, yet it is admittedly a contagious dicease. For that mater. I subprose all the contagiout diseases mat be rapable oi spontancons production, since no one will contend that the Creator, after he had fin ished his worh, and derlared it altogether lovelysaid, "let there be small-pos, and there was small' pot." The spontancous production, then, of ma. laria, cannot be receised as esidence aganst its contagiousness. Reasoning by analogy, I camms understund why a system, surcharged with mata rial $\ddagger$ oison, should be incapable of commanicaung the disease to another, unles sthe potson is changed in its pasage out of the system, which no one proferses to believe. Since it is unlikely that the poison is increased in the system, it necessarm) follows that the diseane can be but feebly conta gious-but contugious nevertheleos. The reason why persons infected, remowng to a healthy localitf, do not communicate the discast, is, that the atmosphere being pure, the poison is rendered banmless by attenuation. This vew has an um portant bearing on the treatment of the disease, an.) the regulations to be observed in the sach room. Medical men, believing in the non-contr. giousness of the dincase, are too apt to neglect those sanitary laws so strictly enjoined in other fevers. The result is often most disastrous, not only to the patient, but also to the attendams In support of a position, gencrally betieved to be untenable, I shall adduce two or three casts occurring in my own practice. Previous to my
remusat to sarnia, 1 practived in Abs cmig. a villege mothom, but not far irein the eavem brun dary of the mabarial the trist da critud in this paper. The time was atrat the clove of winks, thete being yet now wa the kround Throthehout that winter, zemittent fiser wis untually zite th the netgithorhoul of Parihali. Dr Caw hat no fewer than wenty rac, mote or bew wevere. that trom lons evperience in a matimal divenct, he had no atoubt av to the nature of the tever. A femate wervant in e fanily whose medical attendant I w.s, went to see her mothe: and othur member of the inmity who bete domn with the dowase. A few
 the wirl home Heretuxined in the home for a few hour-, atal both returfocl. some days atter her return, the girl tioul sick of remittent fever, and in spste of asoduous medscal attention and caretul nuranc: she ded after an then of three week. The souns man, whe had not been in her foom durng : er fllow, tooh tiek in a week or ten days after bavins been cyposed. As soon $\rightarrow$ the felt unnell. he went home to his family, where he was atemded by two medical men. He, too, ded. No nther cese vecurred in the ler. bity during that sprng, tore dunn: the two following scar: I remanmed there. These nerc; almost beyond duabs, caces of malariad fever contracted by contagion. The season, winter, prechudes atmospheric ponsumng in the ordmary way in December lust, 1 was called in consultation to see a madde azed man, who had been ill from remittent fever for seseral weeks. He was reduced to a mere sheleton. He was ahwas more or less sabject to aguc. As be became convalearent, hts wite, a stronglybuit and healthy woman, was tahen down. She had lived in that dintrict almost all her life, but neter before suffered from malana. Her youngest chald, who occupled the sume bed whth her, also took the disease. Theory: the woman carred in her system a certan amome of malana, as every one reoding in a maknal distnct does; in mursmg her husbind, she inhaled an addtuonal portion, sutticuent to overcome her testiving force. To say that this might be owing to the lowerng of the vital powers by whaustion, is begging the question, : mee she had been frequently ill from other caties, and that, too, at seasons more proputions than wimer, wathout suffering from malana. That lowering of the ntal prower, from

Hy whe, affords the poion an opportunity tor rhen, and the motions ste diy.colored, hom de
 adnit. Indeel, this is generatly the reawn, why His hacr intheased or deranged in action, and one person in a makrial dutrict is attacked, white the yptern is , amome certum to be colorped. Theoe another enjoys immunty from its more narked and other trublles, are diaily met with in every



 the cabe of the chidd, exhumstion ran vatcely be' mity fom the more mathed enit to whith give pleaded as the catuse. It had the sume care as rixe, yet all must untir. the differeme ivonc of
 ence, that it vept with its mother and in the same tobsto. Some nriters have arritud to th the

 conclusion then is, that wathin the bounds set, belich m the antidital pencr of matama In poacr. malarial fever is a comagious disease.

Deration.-- The duration of malarial fever be-province of speculation. By the pratery oi low-

 locality in shich he revide. It stick to certain evrite the tuberculous diathess, and sust that petson with wondetite emacity. Ths property is the only satifactory explanation of the prevalence of the disease, occasionatly, during the snow and vevere froits, even of a Canadian winter. fomards the close of hast winter. I believe the diecrese was as rife in Sarni.a, as it was the previous auhumn.
Byil Effrets. This article is already unduly extended, but I must beg permission to add a few words under this head. It would be diticutt to find language descriptive of the evil eftects of the protracted action of madarial poisoning on the hat inan constitution. Is it never evalts, but invariably lowers the vital powers, its acton cannot be otherwise than most detrimemal to health and life. To be satistied of this, it is only necesiary to see a person chronicatly atitected enter your ollice. If at all acyuainted with the cffects of the divease, yot will spare ham the trouble of answerng the ustal round of qucstions, for you know already his athent. The sallow pateness of his tace, the dull, heavy ese, the unstendy gait and irregular mescular action, with an inexpressible general languidness, indicite clearly enough a system shattered by malaria. Upon ex.mmation, jou will find some organic changes. The stomuth is no longer capable of furnishing suitable $i$, abulum. The patient wall tell you he is "bhoms", and that he cannot eat Llis bowels are ether constipated or he has diardisease to overcome its victum That at is condecive to nearaksic and thematic athex tions, is atse certain. It render epidemice, with as chutera. more hatal ; and endenies, of whateser hind, ars intenified by it. Scarlatma and diphtheria are especially hata m madand dhtrots, lout Ed. trard, a village one mite north of sarmex, is mech more madarial than the latter phice. Whtle, in four gears, thare were not mure than three or four faul cases of diphtherra m Sirmis, there routd nut have been less than thirty at Point Fdward, with its small population of twele hatadred. Cerebrospinal meningtic, too, is of a nature hkely to siceive matcrial ud from malaria in its work of destruction. Parturient women are abo often the subjects of malarial poisoning, resulting in a tedutes and unsatisatetory recovery, and sometmes death. In short, and as I said before, malaria never evalt., but invariably lowers the vital posers, thereture its action mast ahways be mimeat to hife and headth, and the full enjoyment of the moral and mental facaties.

Ramoval of 1 iti Tovali_...E. M.: Vamar, M.D., Cahaba, Ala. (Gco. NLad. Comporuon), recentfy winesed the successinl removal of the tungse from a Spumard, aged $6_{7}$ yents, by Dr. J. T (itlmore, of Mobile. The oquration was periontacd with Dr. Nots, Recthneal liencur for tancer of the tongue.

SOME OBSERVATIONS UPON SCARIATINAL, PILGURISY ANI) UPON THORAchentesis in that afrection.
 OF THEORY ANT PRACTICE OF MEDICLNE, MCGIII, LNIVERSITY.
(Kend hefore the Camadian Medical Anociation in Stoptember, 1572.

It is well known to practical physicians that acute pleurisy is, in children, a rare?affection, as compared with its frequency in adults; it is even more rare as a complication of the eruptive fevers. Having, in the year 186.4, during the prevalence of Scarlatima, met with several cases in which acute pleurisy supervened during the course of that fever; and as the complication is a serious one ; as the inflammatory products appear generally if 1 ot invariably to differ from those of ordinary pleuritis : as the subject has not attracted the attention that it merits; and as the cases suggest some points of practice, I lave ventured to bring them before the Association.

Case I.-A pale, delicate girl, of $\$$ years, took scarlatina in the latter part of March, 1864 . The case was severe; both ears discharged pus, and her nose bled profusely, at intervals, for two or three days; so that I feared she would sink. About this time she complained of pain in the left breast, and on examination the left side proved universally dull, the respiration absent, the intercostal spaces filled up smooth and widened, and the heart displaced to the right nipple. She had had slight pain in the right side for a short time previously.

Recognizing the presence of pleuritic effusion a generous diet, sinapisms to the chest, and a mixture of iodide of potassium and bark were prescribed. Soon after, the Unguent, Iod. Pot., was rubbed in three times a day. I ought to have mentioned that about the time of discovering the pleuritic effusion the left lower extremity was œdematous and that the cedema extended up to the body; the urine was scanty and high colored, but its chemical characters were not taken. As her strength failed rapidly, her breathing was short, and no signs of absorption had appeared after six wecks treatment, I resolved to tap the chest, and did so on the 20th May by a direct plunge of the
trocar into the eighth intercostal space, in a line with the inferior angle of the scapula. A little over a pint and a half of healthy pus escaped when air began to enter the chest, and the trocar was withdrawn and a bandage applied. Winc, ad libitum, egg-nogg, and animal broths were ordered at short intervals, and the tonic mixture was continued.

May 24th.-(Orifice closed ; no discharge of pus since 20 th; the percussion dullness extends as high as the spine of the scapula : the bulging of the second and third left intercostal spaces in the infra-clavicular region is as great as before the tapping ; pulse very weak and frequent. I thrust a large trocar through the former opening, and evacuated two and a half pints of healthy pus, and the left chest filled with air. Left the wound open.

26 th.-Orifice closed ; blowing respiration audible as low as the puncture ; coughs more ; cedema of legs increasing ; eats better, and drinks about ten or twelve ounces of wine daily.

2Sth.-To have a mixture of muriated tincture of iron, quinine, and chloric æther, three times a day.

29th.--In great distress from pain while coughing ; the tumour upon left mammary region emits a dull note on percussion over its lower half, owing to the presence of fluid, and a clear one over its upper half, from the existence of subcutaneous air. Made an incision into the tumour about the lower border of the fourth rib, and gave exit to two tumblerfuls of odourless pus; the opening in the back likewise discharged about two ounces of pus. Air escaped from the anterior incision during coughing. To have one-eighth grain Pulv. Opii. pro re nalt, to relieve pain and cough.

31st.-Easier; no cough ; no expectoration; a very liquid mucous ralle audible in left infra-clavicular and lateral regions, proving partial expansion of the lung; a little thin pus escaping from the anterior incision.
June and.-()nly a small quantity of discharge from anterior orifice ; not any from the posterior; lower half of chest dull on percussion, but a mucous râle audible to-day in left infra-scapular region; heart in its natural site ; pulse 150 , weak ; œdema of lower extremities much reduced.

June $4^{\text {th. - Cough reduced to one paroxysm a }}$ day; scarcely any bubbling to be heard in left
chest; appetite very good; has sat up for last three days.

This child steadily improved and regained her health.

In this first case of scarlatina then, let it be noted that about the same time that the anasarca appeared, acute pleurisy set in with effusion, and after six weeks of unsuccessful treatment thoracentesis was performed on the 2oth May, and pus was evacuated. The operation was repeated upon the $24^{\text {th }}$ and upon the 29 th : signs of expansion of the lung existed on the 31st, and the child recov ered promptly.

Case II.-On the 2ist May, 1864, and about nineteen days after the invasion of mild scarlatina, a fine child, aged 3 years, presented the symptoms of general dropsy. A dose of compound powder of jalap every other morning, a warm water and soap bath cvery night, and a solution of acetate of ammonia every four hours were ordered.

The anasarca did not increase; but about the 27th I noticed that his cough, which had been slight on the 22nd, was marked, and on examining the chest discovered almost wooden dullness and feeble respiration all around the lower half of right chest, and a clear note on percussion over the upper half; the breathing short and frequent, and decubitus towards affected side. A mixture of Iodide Potassium and Liq. Ammonix Acetatis was ordered; the side to be rubbed three times a day with Ung. Iodid Potass.

June 4.-Right side of chest much enlarged, and its intercostal spaces on a level with the ribs expansion movement much reduced ; the whole of that side emit. a wooden dull note, axcept close under the clas le, where it is of a modified, tubu lar character ; respiration audible all over the right chest, but feebly over its lower two-thirds ; hyperresonance, with exaggerated respiratory murmur over left chest; decubitas altogether on the right side ; frequent cough ; anasarca sta'iorary. Treatment continued.

On the night of the 7 th June the father called to say that about two hours previously his child had suddenly become weak, his face pale and his breathing embarrassed. Ordered frequent sinapisms and a mixture of Aromatic Spirits of Ammonia with Sweet Spirits of Nitre, and a little gin punch.
Sth.-Has been easier since 1 a.m. ; is now
anxious; the lips are blue, cyelids puffed, and features tumid : much firm odema of right (depending) arm, leg and side of body; less upon left side; pupils widely dilated; pulse very weak and frequent; right chest even more enlurged than heretofore ; fine and coarse bubbling over lower third of left lung, and to this complication I attribute the sudden increase of dyspnoa.

5 p.m.-Tapped the right chest with small trocar in eighth interspace, in line with inferior angle of scapula, and evacuated a pint of healthy pus. As the matter no longer escaped during coughing the trocar was removed. Owing to the child's weakness the chest was not thoroughly examined, but I noticed that as it lay upon the right anterolateral aspect of the body, percussion elicited a somewhat amphoric resonance over the middle of the right back, and in the same region existed large, hollow bubbling, hollow blowing respiration, and cough with metallic echo.
9th.-Passed restless night; decubitus as before; right side prominent; the right infra-clavicular region markedly so ; opening made by trocar not closed ; pressure produces a tiny stream of pus.
roth.-Mother thinks child easier ; the mucous ráles at left base have disappeared, but the right infra-clavicular region markedly so ; opening made by trocar not closed; pressure produces a tiny stream of pus.

12th.-Mother thinks child easier; the mucous râles at left base have disappeared, but the right chest is dull to the level of the first intercostal space, where percussion produced a modified am phoric note ; intercostal spaces widened. As the puncture had ceased to discharge I thrust the trocar through it and evacuated a little over a pint of healthy pus, devoid of unpleasant odour, when the chest at once became resonant as low as the level of the puncture, and the same physical signs which followed the previous tapping and indicated the existence of hydro-pneumo thorax supervened. The enlargement of the right chest has disappeared. Br. Ferri. Mur. Tinct. 3ii., Cinchonæ Co. Tinct. $\tilde{\jmath}$ iss., Limonum Syrupi $\underset{\tilde{z}}{ }$ ii. m. A teaspoonful every three hours.

15th.-Signs of pneumo-thorax over upper twothirds of chest ; dullness, with feeble respiration over lower third; whistling and snoring rhonchi, and much bubbling over left back, especially inferiorly ; right lateral decnbitus; pulse frequent
skin harsh; sudamina here and there; wedema of hands and feet; much wasting. 'To continue mixture, and have a couple of raw eggs in milk during the day.

1gth.-Has not taken the eggs, but has drunk milk freely, yet is much weaker and very pale ; apparently the infusion into the right pleura has not increased, but mucous rilles are more numerous and more extensively distributed over left lung. The child sank rapidly during the night. No autopsy was permitted.
In this second case, a few days after the invasion of scarlatinal dropsy, the signs of effusion into the right pleura were discovered. Nine days later the infant was suddenly siezed with symptoms of apncea, probably due to the en-evistence of general bronchitis in the uncompressed lung. The child was tapped on the tenth and again upon the twelfth day after the detection of the signs of effilsion ; pus was evacuated in abundance, affording some temporary relief, but death ensued nine days subsequently, owing, I doubt not, to the extensive bronchitis which involved the uncompressed lung.

Case ILI.-Emplima Scondary to Scarlatina, Thoracentesis.-Recoicry.--In the Spring of $\mathrm{ISG}_{4}$, I was requested to see a little girl about six years old, from whose history it appeared that she had had a few weeks before mild scarlatina; that after desquamation she did not convalesce, but became paler and grew weaker; pain in the side and dyspnoen supervened, and at the end of three or four weeks my opinion was asked. On examintaion the physical signs of copious effusion into the left pleura were found, and as the child was very weak and rather hectic I at once tapped the chest and evacuated a large quantity of pus. It was not necessary to repeat the operation. The orifice remained open a few days: the pus did not re-accumulate, and the child made a prompt recovery.

Case IV.-Scarlatinal Dropsy with Empyema. -Expectoration of Plus.-Recorery.-In March of the same year as that in which the preceding cases occurred, while attending a child about two years old for scarlatinal dropsy, acite pleurisy of the side arose, and was followed by the signs of copious effusion. The anasarca gradually disappeared under the employment of drastics and diaphoretics, but the distress of breathing and signs of pleuritic effusion persisted for some time in spite of the
usual remedies. One day, however, a large quantity of pus was suddenly cupectorated with great relief; more or less pus continued to be coughed up every day for two weeks; whe enlargement of the side, the dulness, and other signs of effiusion disappeared, and the child gradually recovered.

It will have been observed that in all these cases the inflammatory products proved to be puru lent, constituting the condition known as empyema, a circumstance which at the time much attracted my attention, and of which since then I have always spoken to my class when lecturing upon scarlatina or pleurisy. I am not aware if other observers have noticed the same thing in scarlatinal Pleuritis, but I have no doubt that my cases have not been exceptional. Some of our latest pathologists have stated that the inflammatory products of pleurisy are more apt to be purulent in children than in adults, and some of them have alleged, also, that sceondary pleurisy in children is commonly purulent. The first of these general statements in my opinion, requires confirmation, as I am under the impression that it is based rather upon the results of the operation of thoracentesis, and upon post mortem examination than upon purely clinical observation. Were the inflammatory products of pleurisy in children usually purulent, it would very probably the more often fatal than it is, and the operation or thoracentesis must have been more frequently practised on children than it has been. Be this as it may, one reason may be drawn from analogy explana tory of the-tendency of scarlatinal pleuritis to produce pus. It is known that in Bright's disease the inflammatory process upon serous membranes and in the lungs is prone to issue in suppuration and and occasionally in gangrene. It may well be, then, that it is in the abnormal state of the kidneys in scarlatina, or the general condition caused by that state, (the acute Bright's disease), that renders pleuritis in scarlet fever prone to produce empyema. In three out of four cases that I have related, anasarca existed when the pleurisy set in. Not having accurate notes of the remaining case I am unabie to say whether it was present or not in it.
A study of the foregoing cases appears to me to justify the following conclusions or proposi-
ist --.That the pletrive of ccarlatima is womby not to say imvariably- an acute empema
znd. That in sathtinal pheuriss, when the! signs of effision are marked and do not promptly disappear, it is well to make an evploratory punc- $ز$ ture of the chest at a much earlier jeriod than is even now customary in urimary plearisy following ca/ostur:

3rd.-That tolerably prompt and. at the same, time, complete recovery of the fung may be experted under these circmatances, chethy because the inflammation is route and ocinf, and that the siall powers hate not been exhanted by a pro tracted ithers, nor the condtition of the lung been attered by prolunged compresston, as in rhronic empem.
fth -- That if the dievase (the pheurns) be not of long standing, $i$, if it be recent, the appear ing of gme in thoracentecis is not at least manda tinal pleursy, a sery srave indication. The majonty of sucia cases will probably terminate favourably.
$5^{\text {th }}$. That the pus in stathatinal empsema may perforate the lang and be enpectorated, and the patient recoser promply and perfectly

Gth.-That it is not well to wait for such an occurrence, which appears to be umsual, and, as being long delayed to involve increased danger to hife, but mather to make an exploratory puncture early.

7 th.- That it the pyothoras of searlet ferer. be recent, imple puncture of the chest repeated once or oftener will usually suffice, without the emplosment of the dranage tube, which is so valuable and ofen necessary in chronic pyothorax I may add that judging from $m y$ experiencee in other cases the same obseration win apply to othe forms of acute pyothomx

## CASES OF FIBROUS P(OIXPI AND FIB. ROLS TUMORS GF THE UTERUS.

I:S R. P. Huwakl, M.I , I. R.L.E.I..<br>  Gutherdl Ille; atah,

- reapecting the origm, ymptoms or treatment of such growths, but that having several spectmens of these neoplaws in my posseston, removed at various tames, I hoped a brei climeal hntory of dicin might be of susficient interest to the society to warrant me in intruding so practucal a toper upon the constderation of its member.
A Fiboce Petyps. Cas I.- In September, 1366. 1 was called to a village 50 miles from here to see an ummarned Jady, about 30 yean of age, who had been the subject of menorthaga for a long tme, and of mermitting metrorrhagat for several months she presemed a blanched essangume appearance, was very weak, depressed im spints, desoid of appette, and much cmachated. The puake was flabby and frequent, and her mental conditon nervom and despondent. Iron, ergot, sulphume and gatle acids, acetate of lead, port winc, etc., had seteratly fated to permmently revtrain the hemorrhage; yet, from motne of delicacy, the attending phystenan had not made a magal cammation. I at once did so and found a tibrous tumor about the size of a hen's egg, but more globular in form, projecting into the vagma, its upper extremuty beng tightly surrounded by the os uteri, but not conumuous with st. She at once accompanied me to Montreal to have it removed. As the vagmal onfice was very smath, a piece of compressed sponge was mtrodured withn it and secured by a T bandage the nught before the operatton, and neti das, wath the able assistance of Dn Campbell and Drake, the growth was removed in the following manner: Chloroform having been admmstered, the growth was semed with a valsellam, and a loop of broad tape passed over the latier so as to cmbrace the highest pertion of the polypu- nutsicie the uterns- strong traction failed so draw on amy more of the numor from the uterus, it appeared to be very firmly attached by its upper entremity rather than by a true pedacle it was mather sessile than pedunculated. Drawing the polypus almost into the outium vagine, I divided it close to the os aten by repeated strokes of a scisors. No hemorthage followed, although the cut surface, as may yet be seen in the preparation had a curcular area about equal to that of a shalling.

No constitutional or local disturbance followed; the patient soon regaired her heath, and has menstruated normally ever since.

The growth is an example of the very dense on the 3 ted of July, and might safely lave done so tuerine fibromata, and was covered by a thin vas. cular membrane very like uterine mucous membrane. It was not considered necessary to dilate the os and ascertain the point of attachment of the growth, so that I am umable to deternine that fact in its history. Its removal by the scissors illustrates one of the most facite, and in many instances, the safest as well as the most expeditions methods of removing uterine polypi.
Case II.-Mrs. --, from New Brunswick, zet. in years, consulted me in June, $1 \$ 70$, respecting what she had been told was a "prohapsus uteri." She had been married twelve years without issue, and had been for several years subject to profuse menstruation every three weeks, and to occasional attacks of severe metrorthagia. During the year preceding this report, these symptoms had increasd in frequency and urgency, and several times she had been obliged to procure medical assistance. Vaginal injections of alum had been employed for a long time.

She was a stout, rather fat, and checrfit person, and although very pale, was with the above excep tion very healthy.
A pear-shaped, firm polypus, about the volume of a small-sized hen's egg, occupied the vagma, and its pedicle, of the thickness of my inden finger, could be traced through a large and thabby os uteri to its insertion into the posterior wall of the cervical canal, about an inch above the os externum.

On the rith June, with the assistance of Dr. Ross, then the House Surgeon of the Montreal General Hospital, I passed the chain of an ecrasemr within the cervical canal as close to the uterine attachment of the polypus as possible and slowly separated it. Moderate bleeding from the stump of the pedicle ensued, but under injections of cold water soon ceased. A pledget of cotton wool, satumted with a minture of a part of Lig. Ferri Perchlotidi Fort. and 4 parts of water, was placed within the os agamst the divided pedicle, and a tampon of cotton wool introduced into the vagina.

The tampon was removed next day-bleeding had no: recurred. No constitutional disturbance followed the operation, and no incomenience was experienced beyond a moderate discharge from the uterus, and for a few days a slight pain in the right ovarian region. She left for her home quite well

## at an carlier date.

Case III. - Resembles in many respects the one hast related, but has some merestung peentiaritics, more especially in the symptoms wheh followed the remotat of the polypus.

In Miny, r866, Mrs. -.- - sought my udvice with reference to very profuse menstruation of long standing. She was about $\boldsymbol{q}^{6}$ gears of age and the mother of six children, of whom the youngest was cleven years old. A vagenal exatmmation disclosed a slightly patulons os, through which the sound detected an interuterme growth. A stret observance of the horizontal posture durng menstrustion, and the administration of ergot and sulphunse aetd, moderated the monthly loss very satisfactority, and it was agreed to wat for the extrusion of the polypus from the utenne cavity before attemptung its removat. On the $\mathbf{z i}^{\text {th }}$ of July followng, she experienced uterne pans and fitt that a body had descended into the vagina. Visitmg her b; request the next day, I found a pear-shaped polypus, 3), as large as a large hen's esg, in the vagma, and attached by a pedtele of about the thickness of my index finger to the inside of the utens, upon its anterior wall, and at least an meh above the patulous os. On the 2 Sth, with the assistance of Dr. Drake- the patient having been etherzed-1 passed the cham of an ecraseur over the pedicle and within the uterus, and slowly deveded the attachment of the growth, no hemorrhage occurred. but on the 3rd of March a rigor ushered in a smart attack of metritis, attended with offenstie discharge from the vagma. This, however, soon yleded to treatment, and she was quite convale-cent by the end of the month. Her health became perfectly restored and better than it had been for years.

Two things appar to be worthy of notuce in connection with this case-lirst, the satistiactory result of pallative treatment whale the polypus was yet intra-uterine, and all the more apt to produce obstunate menorrhagia-second, the occurrence of metritis after the careful removal of the polyp by means of an ecraseur. Most persons, faminar with uterine disease, must have observed the varymg degres of tolerance of surgical interference with the uterus maniested by different women. In some persons, fortunately they are evceptional, the introduction of a uterine sound or sponge tent, the division of the cervix, the twistug or snipping of
of a small glandular polypus, an intra-t:crine in jection, etc., will be followed by severe pelve cel lulitis or metritis, while other persons, not distinguishable from the former by the most experienced physicians, will stuter whout any unpteanant sequence, similar and much more severe mechanical interference.

An instactive instance of this kind maty not be out of phace, more especially as $t$ oters an example of a variety of uterine polypus by no means of in. frequent occurrence, although not belongmig to the variety which foms the subject of this pajer.

Early in 1867 a lady put herself under my care in the following condition: About 34 lean of age she was sterile, although married $\mathrm{r}_{\mathrm{i}}$ years, and had all that time suftered from very profuse menstruation. She was very feeble and anmume. Insisting upon a local exammation, to wheh she was much opposed, I found, in addition to considerable hypertrophy of the cervin (" Areolar hyperphasia " of Thomas) and a patulous os, four Nabothean polypi (specimen 6) about the stze of apple purpins, attached within the cervical canat, and two of those cysts so frequently seen embedded in the haps of the cervex in steric women. The polype were snipped off and the two cysts opened with the points of the scissors, and these hittle operations, practised without violence and cven without pain. were followed by a mather sharp attack of pelac cellulitis, whech lasted three wechs. The menorrhagia, although decidedly improved by the remowa of the minute polypi, was not altogether cured, and ; as she was about to wist her freends in Sicotiand, I $\ddagger$ advised her to consult when there Dr. Mathew Duncan, to whom I sent an abstract of hel case. That gentleman dilated the cernx with sponge, fourd anotiner small polypus higher up and remoned it-severe inflammation followed and she was alarmingly ill for some time.

Here then was a person in whom, on two occa. sions, scrious inflammation of the pelve wicera was induced by very trivial operatons.

Case, IV, differs from those prevously descrited in that the neoplasm was completely enclosed within the uterine cavity and as belongng to a class of cases intermediate between true polyp and sutnucous tibrous tumors - -viz : intrenterine fibroid growths attached by. a broad and sessile base, but of a rolypoidal shape (specimen 5).

Fio the nutes of the case $u_{i}$, to the time of the
removal of the temor I am indebted to Dr. Koddeck.
"R. R., at. $3^{\circ}$, a tall. dark-haired woman, unmarried, was admitted to the Montreal General Hosputal on the a Sth of December, :572. It was diflcult to get a sery straizhtiformard story from her, but her hotery sad condtion was prethy nean? as follow:
"She had alnags emoyed good health until a year ago, when she met with an accudent by falling down staus while serstmg in a fambly restding at Murray B.y for the seavon This fall was followed by evertetateng pron in the back, and beadache, so intense and persistent indeed that her mistress, becommg alarmed, after a few days seat her to Montreal, when she immediately presented herself at the hospual. Whate on the way to the cuty she commenced to 'floon,' and in spite of ath treatment lost more or less blood contmuonly for about a fortmight. No cause could be assigned for the loss, afthough a uterinc exammation had been made. Stight pam in the back remaned after the hemorrhage, and appeass indecd never to have left her since. She positively asserts, however, that her menses became quate regular and of moderate amount untul a week before admission thes tmes, when a profuse bloody diecharge again commenced, accompanied by back and headache quate as severe as before. She had been tronbled with leacornheax for years.
"Her condition on admission was that of eritreme prostration after hemorrhage, lieing blanched to a great degree, the pulse frequent and weak, and the appetite entirely gone.

- C"ictuc Eramination.-Entire absence of neek of uterus-os extremely thin and dilated sulficiently to allow of the introduction of the finger as far as the first joint -within was readily felt a body resting immediately against the os, and whech gave way to the proint of the finger presoed against it The mipresson conveyed was that of a polypoid growth appended from some point in the cavity of
the uterus. Dr. Howard verified this diagnosis at a subseçutent cxamunation."
On the 16 th of Jamary I introduced a pretty harge sponge tent into the os uteri, with the view of fully exploning the relations of the growth and removing it it the attempt should appear prodent.
Next day, the patient having been put fully under chloroform, the tent was removed and the finger
passed well up into the uterine cavity A firm globular fumor, witi a broad sessile attachment to the sery fimdus uteri, was conity made out (Fig. I). After some hatle trouble an' with the assistance of Dr. Rese, Braston Hicks wire rope ecraseme was passed ouer the growth, and its attachments were sradualis divided.

Sone diticulta uap now experenced in dehtermge the detached tumor from the uterine cavits. and it was tiot until atier I had made two sertital incisions hatf an inch long. at apposte points of the dilated 0 a, that $a$ lotg and vtrong pull upon the tumor with a sulneilum at last extriteted at. No hemorthage occurted and the utcrine cavits whe wached out with a weak sobution of iodine.

At the sisit the day after the operition the patient presented well marked erysipelas of the right side of the face, apparently commencmes in the meatus auditarius, which hat teen the eeat of a mall absecss for a cenple of day presoush.

The erpipelatons inflammation gradually atended over the face and head, and there was the usual constitutional disturlance of that affection. bat throughoat its course no pain nas complamed of in the abdominal cavity, and the oaly medication addresed to the utents was a daty saginat injection of wara water, containity a teapponful of Condy's flaid to the pint.
She made a yeedy recovers, and two wech afte the operation I fuund the body and cervi of the utenes of about thear uatal sing bat the on sumewhat enlarged by the mebsions that had leeen prac. tised upon it.

The tumor i, a frme, amost glutular, firow nophasm, meavuring in th gratest circunference six inches. Its attathment to the uterits was arcuiar, and had a diancter of an meh and a quarter, as may yet be soun by an examination of the specimen (No. )
B. Fibrias Tuntors -Cast. V. is an example of a trie fibrutis tumor of the utcrus, an affiction tery much mure common than true tilirous puipus of tiat organ, but on the other hand, altbough more common, $1 t$ is lese amenable to treament, and ats remonal inolves more troulicnome and dangeroth, operative measures.

Mirs W., at 30 , has been married setetal geate, is sterile, and for nearly the whote period has sutfered from profuse menorhagia, which she atubutes io a uterine tumor, in proof of which she shows
me a pickle bottle filled with coagula preserved in spirits, which she regards as expelled portions of the gronth.

The uterus is somewhat irregularly enlarged, the os sightly putulums, and the sound touches a resisting body within the womb. A lange sponge teat having been introduced into the os in the evening and removed in the morning, had dilated the aterme mouth suffictently to permit the detectuon by the finger of a dirm growti embedded in the perienor wall of the aterns, but projecting by one extremity into the uteme canty, so as to form a submucous outgrowth.

The same day: asisted by Drs. Campbell and Drake, I attempted the remotal of the tumor by esukion at. d enucleation. The patient having been rendered insensible with chloroform, a strong vulsellum was fixed-in that protuon of the tumor wheh projected into the uterme cinaty, and after pultheng forcibly for a short thene, its attachments suddenly gave way and the growth shelled out as completely and neatly as the hernel of a nut, No hemorrhage followed. and the patient made a speedy recovery without an unamorable symptum. Her menorrhasia aho disappeared, and she has enjoyed encellent health eser suce -now some fire years--but has not conceived.

The tumor, as you see (specimen 6), is somewhat ifntorm in shape and about as large as a hen's egg. The narron end projected into the cavity of the uteru, and about three-fourths of the growth, m. cluding its bruad end, were cmbedded in tne uterine walls. A thin bed of areolar thstae separated the tumor from the substance of the uteras and per. mitted of its enucleation. It was a knowlecige of this anatomual featere of tuerne fibrotds that lead Velpeat to suggest there removal by ennclation, and although the operation is not free from numerous dangers, espectally when the neoplasms are harge and deeply embedded, yet of late years very mams such growiths hate been stacessfaly remored, not a few of them of comsicrable dumenstons.

As it is well known that uterme fibrods are diefiy dangerous through the inemorhage they indace, more espeatily when stuate beneath the mucons memirane or in the walls of the uterus, and as their remosal by eacasion, enucleation, gouging. etc. is frequently, impracticable and dh.ys more or iw dangerous, I will conclude this papar with a few observations upon a method of
curing the hemorringe which is the symptom that mainly renders these and other uterine growths especially alammg. I allude to Dr. Savage's plan of dilating the os uteri with a sponge tent and injecting the uterine cavity with a solution of iodine.

Case VI.-A few years ago, having seen, in con. sultation with Dr. Drake, a lady the stabject of an interstitial uterine fibroid in the posterior wall, as large as a small cocoa nut, which habntually cuused alarming menorrhagia, I suggested the injection of iodine into the cavity of the uterus, and the oper. ation at once checked the hemorrhage On several subsequent occasions my friend resorted to the same measure with his patient, and always with prompt success.
Case Vil.- Mrs F., ext. about ${ }_{3} 6$, married several years, but sterite, had been suffering from severe menorhagia and metrorthagia for more than a year, and when first seen by me in November, 1870, was very bloodless-looking and much reduced in strength. On examination several fibrodd tumors were found comected with the utents. One occupied the anterior wall about midway between the os and fundus, and was mainly subperitoneal, a smaller one could be felt through the pataious os embedded in the substance of the womb, but projecting slightly into its cavity; and a third was seated high up on the posterior surface of the organ. The sound required some management to introduce it within the uterine cavity, owing to the distortion caused by these neoplasms. As the removal of two of these fibroids was not practicable, I confined the hady to bed for several weeks, prescribed ergot in combination with iron, and upon several occasions injected the uterinc cavity with the iodine solution recommended by Dr. Savage-M Iodi. zi, Pot. Iod. Jii, Spirit: Vini Rect. : zii , Aq. $\overline{\mathrm{s} v i}$. By the month of April the tendency to hemorrhage had been quite removed, menstruation had been re-established in moderation at reguiar periods, and the patient's health and strength had been quite restored.

Dr. Savage's advice to dilate the os before employing intrauterine injections shoutd, as a very general rule, be followed, and then the alarming symptoms which are occasionally induced by the operation woutd, if I may rely upon my own experience, be rarely observed. In the following case (VIII.) the omission of the preliminary dilhtation of the os was the indirect cause, I think, of
the inflammatory symptoms that on one occasion succeeded the injection.

Cise VIIT.- A colleague requested me to see with him a large, fat, and young marricd woman, who had long been the subject of alarming menorrhagia, symptomatic of a tilmous tumor whech had enlarged the uterus to about the dimen yons of that organ in the sth month of gestation. As a result of the consultation, intra uterine mections of iodine were subsequently employed upon three sevemt occasions. Upon the last occasion symptoms of metnis, or of metr-pertonitis, succeeded the mjection within a few hours. These proved quite serions, although manageable, and were followed by phlegmasia dolens. The patient, however, recovered, and the tendency to menorrhagia was cured.
1 might cite other instances in which uterine hemorrhage has pielded to the injection of a soln tion of iodine into the uterus, but these must suffice at present Had the sulject received the consideration that, in my opinion, it merited, in the late able treatises of Drs Thomas and Graily Hewitt, and indeed in sarious recent articles upon menorrhagia and uterine tumors, I wouid not have thought it expedient to have added my testimony to that of Dr. Marion Sims, in favor of the efficiency and of the gencral safety of injections of iodine solutions into the uterine cavity for the arrest and cure of menorrhagia consequent upon uterine fib. roids, and I can add uterine polypi
Whether the repetition of these injections at every menstruation, for five or six months, sensihly reduces the volume of the tumors, and in some instances effects their complete removal, I am unable to say. But this vicw will not appear improbable when we bear in mind the fact that Sir C. Clarke, Rigby, Ashwell, and more recently McClintock, Mathew Duncan and Playfair, have recorded cases of removal by aborption of fibroid tumors of the womb. It may be that the iodine excites inlanmation of the substance of these tamors, which, because of their relatively low or ganization, is followed by fatty degeneration of the inflamed tissue and subsequent absorption.

An Aged Mad ef honor - Madame Melgueil, one of Queen Maric Antoinette's maids of honor, who accompaned her unfortunate friend to the foot of the scafiold, has just died at the age of 102 years.

## CONSERVATIVE SURGERY IN CONNECTION WITII SERIOUS INJURIES.





(Kesel befure the st. John Medical soxiety)

I thinh that the object for which this society was first msttuted, and the interests of the indiudual members thercof, will be more fully met, by a few practical remarks upon some subject which interests us in the daily routine of our business, and whech will afford a topic for meteresting disrussion; than by readmg an claborate essay upon some abstruse subject, which, although it may require a great deal of time and study in its preparation, is still of very hatle practucal value. I therefore purpose, this evening, to call your attenfor a few minutes to the subject of "Conservative Surgery in conmection with Serious Injuries," and in domg so, wall tahe the oppritunty of allustratung it with cases that hase occurred under my own care. Ithink in thas way much uscful information may be otrained, and we may be enabled to learn the result of each ones individual eppenence. When I tirst began the study of medicine, surgery was not nearly oo consenatise as it is at present although it was infinitely more so than at was a few years previous to that time. This is readity accomed for in several ways,-first, the mereased and increasing knowledge wheh is accumulating year by jear, going to show what nature, when skillfully assisted by art, can and will do; and in the second place, by the great and wonderful discovery of anzethencs, whech enables us to perform operations, and save limbs, wheh, without it, we could not possibly attempt. Before the days of chloroform and ether, it was the surgeon's aim to remote a limb or perform any other operation as rapidly as possible, in order to save the patuent unnecessary suffering, and from the very nature of the case, it was almost imposible to perform many of the now namerous operations of resections of juints, operations for tmunited fractures, plastic operations of various hinds, Sc., 太心c., owing to the length of tame requ'ed and the extreme sutiering that would be entaild. Now, on the contrary, the aim is, not necessarily rapidty, though that is well if it can be accomplished, but to select whatever operation, no matter how tedious or protracted,
will afford a chance of sarmg a limis, or any portion of it. Another improvement in modern surgery, of a conservative character, is the adoption of secondary operations in preference to primary, when there is the least chance of success in saving an injured part; and by secondary operations I do not mean an operation performed some twentyfour hours after an accident has been received, for it may take more than that length of time for reaction to be established, and I think no surgeon should ever operate till that has fully taken place, (execpt, perhaps, in a few instances, as when bone is pressing on the brain, or when there is excessive heemorrhage or some condition that necessitates immediate interference) ; but 1 mean an operation performed after suppuration has taken place, or in cases of stoughing or gangrene, when a lime of demarcation has been fully formed. By waiting and allowing nature to evert herself, especially in joung and beatthy subjects, and under favomble hygienic conditions. it is remarkable what can be someumes accomphshed. 'There is, however, one thing in this connectuon, and it is of very great importance, and one upon whth I would like to hear the stews of the different gentlemen present the evening, and that is: that as far as my own expertence bas extended, I have observed that tchanus has more frequently occuracd after scioudary than promary operations. Now, whether this is simply a fost hoc or a propter hoc is the question I would thee to have discussed this evening,-for if the latter, it would throw a very heary weight in the scate aganst the advantage of secondary operations. What tetanus is, and what peculiar condition of the nervous system mduces it, is, I think, very imperfectiy understood in the present state of our science; and whether the irrtation caused by allowing an injured limb to remann for a considerable tame, undergong suppuration or gangrenc. in the hopes of saving all or a portion of it, would predispose to this form of discase, and render the patient more liable to it than if it had been removed unmediately after the mjury, is a questuon worthy of sertous constdcration. There are certain forms of injury, as twe all know, that are more liable than others to be followed by the dread disease ; and there are certain systems mote hable to at than others, a condition, however, that I think no surgeon can predicate beforchand. What is cven more remarkable, there are certam
places in which it is much more common than by an ignorant man, a kind of horse doctor in the others; and there is a part of Long Island, in the neighborhood, who put up the limb at once in the
vicinity of New York, in which it prevails to such an extent as to be the dread of all the surgeons practicing in that neighborhood. In my own practice, I have never allowed the fear of tetanus to deter me in my efforts to save a limb; and the question I would ask, is whether it is in any case the surgeon's duty, or whether it would be considered good practice, to condemn a limb to amputation without making an effort to save it, when there appeared the smallest possible chance of saving even a portion of it, from fear of tetanus?

Notwithstanding the occurrence of this disease, however, it is a well established fact, that the mortality after primary operations, especially amputation of the thigh and the lower extremity generally, is much greater than after secondary; and this being the case, is a tolerably conclusive answer to the question. It is very remarkable, and must strike every observer to see how well a man who is emaciated, and suffering from some lingering and painful disease, bears the shock of an amputation of the thigh, for instance, and seems in many instances to rally and improve in health and spirits almost immediately; whereas, the man in rude health, who from some severe injury is subjected to the same operation, is very likely to sink, and die in a few days. It is not, however, in such cases as these, in which there is apparently no choice but to operate, that I wish to direct your attention ; but it is to those in which the chances seem almost altogether against an ultimate recovery, but in which the patient has a good constitution, and where the hygienic influences are favorable, that I would advise you to wait and watch, and with careful and judicious treatment see what nature will do, before sacrificing a fellow creature's limb to the knife. The patient's general condition must be the great guide to govern us in our decision; and when the puise is grood, appetite fair, absence of hectic and irritative fever, no matter: how great the extent of injury, it is always well to wait. In illustration of this, I will cite a case that came under my own care some years ago. A man, James T-, a labourer on the roilroad, received a compound fracture of the tibia by means of a bar of railroad iron falling on him, the fracture being about the junction of the middle and lower third of the bone. He was seen almost immediately
following manner: Having set the bone, he applied to the naked limb two pieces of board, and then passed a bandage tightly round the whole, from the foot to a little below the knee, and told the friends, who had care of him, to allow this to remain upon him ten days, keeping the whole constantly wet with alcohol and water. His injunctions were faithfully carried out, and as the accident occurred in the middle of summer, you can casily fancy the condition of things that would arise from the foregoing notes. At the expiration of this time, the stench from the limb was fearful : and his attendants, thinking that something ought to be done, came for me. On removing the bandage, the sight that presented itself was something that I had never witnessed before. The bed on which the leg lay was swarming with maggots, and the bone protruded from the wound about an inch, perfectly white and dead, the soft parts in the immediate vicinity having sloughed to a very considerable extent. In addition to this, there were two large sloughs on either side, caused by the pressure of the boards, and also a large one on the dorsum of the foot. The bandage, which only extended a little more than half way up the leg, and had been passed tightly round the limb, before any swelling had taken place, had caused the matter to burrow up the calf, and a large abscess had formed in this situation. You will, I think, readily admit that the prognosis, as far as saving the limb was concerned, was not very favorable in such a case, at least I myself deerned it so. The only thing that determined me to attempt to do so, was his seneral condition, and this, considering the situation of affairs, was very remarkable. I must premise by stating that he was a young man of good habits, and that he was staying at the time in a shanty in the woods, where the air was pure and healthy, both of which things materially tended to his recovery. But to return to his condition at the time at which I found him. Notwithstanding the tremendous amount of irritation to which one would suppose he must have been subjected from the nature of the case, I found him with a pulse of less than 8o, no hectic or night sweats, and a tolcrably fair appetite. These circumstances decided me in attempting me to save his limb. Immediately after removing the bandages and
splints, I opened the abscess, which discharged a large amount of pus; and having placed the leg in a fracture box, I ordered a poultice, composed of yeast and flax sced, to be applied to the parts which were in a state of slough. I also ordered generous diet, and gave him a mixture of guinine and iron: with a little porter to be taken thrice daily. In a few days the slough separated, and his general condition also improved gradually and steadily. When the slough came away, the external lateral ligaments of both ankle joints were completely exposed, and also some of the tendons on the dorsum of the foot. After this, the parts began to granulate nicely, still keeping the leg well adjusted in the fracture box, and everything went on favorably except the union in the bone, which could not take place owing to the large amount that was already dead. As soon, however, as the sloughs of the soft parts in the immediate vicinity of the bone had separated and come away, I introduced a chain saw and removed the dead portion, and then carefully re-adjusted the fracture and allowed nature to do the rest. Several months elapsed before union was complete; but in about three months he was able to place his leg to the ground, and in eleven months after the accident I heard of his being again at work on the railroad, almost as well as ever. This I consider a very remarkable case, as showing what nature will do when properly assisted, and one that teaches us that we should not despair where there are any reasonable grounds to hope for success.

There is another class of cases which I think will interest you ; and as they illustrate the effects of different modes of treatment, I will detail in a brief manner two parallel ones that came under my own notice. I refer, now, to wounds peñetrating the cavity of large joints. The first case is that of a woman about 35 years of age, of dissipated habits, who, while intoxicated, fell down cellar, and struck her knee on some broken bottles, causing a wound about one inch in length, and which penetrated into the cavity of the joint. She was immediately brought to the hospital, and I saw her a short time after the accident occurred. Having carefully e.mined, and ascertained the nature and extent of the injury, I brought the lips of the wound accurately together by means of silver wire sutures and adhesive straps, and placed the limb on a double inclined plane, with injunc-
tions to keep it perfectly at rest. A saline cathartic was then administered, to be followed after a short interval by an anodyne; and a dozen leeches were immediately applied around the knee joint, with the view of preventing suppurative inflammation. When the leeches came off, an evaporating lotion was applied, with instructions that if there should be any pain after the lapse of a few hours, to apply a similar number of leeches again. The patient rested very well during the night; but on the following morning, and some twelve or fourteen hours after admission, complained of pain in the joint, and twelve more leeches were applied, and the lotion and rest continued. The diet was restricted to gruel, and weak tea and bread; and after the second application of the leeches, there was no pain of any consequence, and she steadily progressed towards convalescence. The wound healed, by first intention, in a few days, and in about a fortnight after admission the limb was removed from the spiint, and she was discharged well, without the least injury to the joint. The previous habits of this patient were unfavorable to a good prognosis, but by taking active measures the inflammation was prevented, and success crowned our efforts.

The other similar case showing the effect of an opposite mode of treatment, the result of accident is as follows: A man named Thomas T —, about 30 years of age, engaged on board of a schooner, while cutting some kindling wood, struck his knee with the corner of an axe, and produced a wousd which penetrated the cavity of the joint. He was immediately taken to an hotel, and I sa;v him a short time after the accident occurred. Upon examination I found an incised wound just above and a little to the outside of the patella, which communicated with the joint. I brought the edges of the wound together as accurately as possible. and placed the limb on a double inclined plane, to secure perfect rest, as in the previous case, and explained to him as fully as possible the nature of the injury, and the necessity of obeying my injunctions to the letter. A number of leeches were then applied, and afterwards an cvaporating lotion placed on the knee, and low diet enjoined. This was about ten o'clock in the morning, and in the evening I visited him again and found him perfectly free from pain, and anxious to have the splint removed, as he said he did not see the necessity
for it. I again cyplathed to hitm the mature and my revidence, a comsiderable length of time necesdanger of the injury, and ordered an anody ne to sarily clapsed before I san him, and when I ded, te taken at bed sine, and left him for the night. I tound, ugon examination, that the most of the On the following meming, about ten ocloch, I, clange had pased completely through the limb, found him dronk in bed some of his friends had shatering the femur on the region of the great bivited h'mafter I foft, and in the hindness of their, trochanter, but not wounding any large vewel or hearts, had brought him a bottle of rum, with nerve. I remoted a iew hage slug, that were which he regalel himaelf during the weary watches, lying just under the shin, and allowed some smadler of the night, and under the intlence of which I shot that were deeper to remain. His general found him at my visit. The result of this was very condition was, considering the scrious nature of soon manitest in pain and suelling of the joint. the injury, remarkably good, and I mmedately and although I immediately applied tuelve lecches again, and continued the rest to the joint, I rould not prevent the milumation which bad already been induced. The joint became swollen, hot and paintil, and for a long time 1 thought that suppuration would take place in the cavity itself in spite of all my ciforts, but ba strict counce of antiphitogistic treatment, I succeeded in preventing this, although abseceses formed in the leg both above and below the knee, and he was conlined ior four months to his bed The result was, that eventually he got ofit with a stiff hnee, which has remained so ever since, and at one time I feared that he would lose his leg altogether, if not his life. So much for a slight indiscretion, without which I betieve he would have had just as good a leg as the other patient above alluded to, inasmuch as he was, on the whole, a better subject for treatment. These cases go to show, in a very torcible manne:, the effect of treatment, and also that the fondest hopes of the surgeon may be rudely dispelled by a momentary indiseretion on the part of his patient

I will now call your attention to another series of cases in which 1 think great benefit was derived from the use of carbolic acid, a solution which I would have emplojed in treating the ones already alluded to, but with the use of which I was not accuainted at the time, and in fact it had not then reached this part of the world. Fdward McG., a young man 21 years of age, white out hunting, received the contents of a gun, loaded with slugs and duck shot, in hus thugh, causing thereby a compound commmuted imcture of the fentur in the immediate vicinity of the hip joint. The accident occurred some tifteen miles from home, and his companions were obliged to carry him a long distance on a stretcher improvised for the occasion from some proles, and the remaining distance in a sleigh As he lived some seventeen miles from the accident to his linal recovery, I do not think one that mont of you are familuar with, and which is generally used in our hospatal liere. The porton of the thigh at the seat of :upury was icft exposed, for purposes of cleansing., and I applied a lation comprosed of one pint of catholic acted to thirty of water. He pasied a tolerably comfortable nught, and the next morning I returned home. I was, however, sent for, and obirged to retum the same evening to draw off his unne, a circumstance that If fared would take phace, ahhough he passed it several times without assistance after the accadent. Having reheved ham, he spent another comfortable night, and progressed specedily toward recovery whomt one uhavomble symptom. It the end of thirteen weeks, I removed the splants altogether and allowed him to get up, and he contanued rapidly to gain strength, so that in a short tume he coutd walk a considerable distance. It is now ino years since the accident occurned, and I saw him a few day, ago, and with the exception of a little swortening of the leg, he is as well as ever. He worked all winter in the lumber wood, and told me that he was as strong and could work as wel! as before the accident, walhing being the only thing that fatigned him most, and this was of course in a great measure due to the shorteming. This is a litte more than an inch, and although from the nature of the case, there must of necessity have been considerable, stll it was in great measure duc to his own conduct. L.ıving, as be did, at a long distance from me, I could not see him nearly so often as I could wish, and when I did vist hum I invariably found that he had lessened hts step. When I remonstrated with him about ts, he replied that he did not cate about the sthortenng, so long as he had a strong and useful leg. And now, in
that the wound, caused by the thet, unsharged ${ }^{\prime}$ two ombes of pus. This, I thinh, was manly owing to the carbolic acid, and as an evolence of it, I may remark, that for twenty-four hours it one time he got out of his lotion, and appled atcohol and water, when the parts bewme much more painfil, and began to discharge mu h more freels. As suon, however, as the lotion was feraphed, everything came back to its urisulut state in a wery short time.
Another case in which the benetit of this acid was strougly manifested, was in a case of compound comminuted tracture of the thamb. Charles H ., a young man, while engaged in splitting sawn wood, cut his thumb very severcly with a dull, bluntedged ase. The wound was about one and a fulf inches in length, and catended completely through the thatid, phlintering the first and sccond phalanges, and laying the joint completely open. When I first saw him I thought amputation was the only thing to be done, but upon further consideration, I determinest to try and save the lamb for hina. I accordingly reduced the fracture as carefilly is possible, and stitched the edges of the wound tosether, and placed the limb in a sphat. I then wropped it around whit lint saturated in a similar solution of carbolic acid and water, and gave him directions to keep is constantly wet. He did, and the wound united almost altogether by first mention, there not being a tablespoonfal of matter discharged during the whule time he was under treatment. This I do not think would have happeaed under any other kind of dressing wath which I am acquainted. Another similar case was that of a child, about six years of age. This chuld fell on some sharp sebstance in the street, and had the first joint of his thumb entirely open. I saw him very soon after the accident, brought the edges of the wound carcfully together, applied a splint and the same dressing. The result was union by first intention, and a periect use of the joint. These cases go very far to prove that there is a great dal of efficiency in this drug, and although I do not think, as many would suem to, that it is a panacea for everything, yet 1 do think that in some cases it is of verv great scrvice, and a very valuable remedial agent. I have tried it effectually, as a dressing, in many kinds of mdolent and other ulecrs, and have not found it to satisty my expectations, although by some it has been
wholled very hugbly in the same class of ases. I will now conclude my remarks by reference to a case whith, athough not beanng mach on my sulject, is still very merestug as a surganl curiosity. A hitte boy, five geans old, while playing in a factory, crept ander a circular-saw table, the saw of which was naking at the tame about three thousand resolutions per minute. He rased hamselt up and bis head cante in contact with the sw, which made a cut in the lage diameter of it, and just a hate to one side of the medtan fime, enactly seven melles in length; and from the dameter of the saw, and mensurements made atternards, must have penetrated the brain substance about one and a-guarter mehers. He was immedutely taken to the house, and I saw him twelve hours after the accldent. He was then ly ing on a sofa, and presented no symptoms that mught not have atisen from a severe scalp wound. There were no sigas of conchssiun or compression: his intellect was clear, and senstblity periect. I placed hum under the mituence of chlorwion ; and hasmes carcfully cleansed the wound, brought the edges of the scalp together wht siver wire sutures, A bandage was then passed pretty thghty round the head to press the edges of the bone together, and he was removed to bed. The same carbolie acid lotion was ordered to be apphed, and it was contmued till recovery took phace. He contirued to progress favorthly, no bad symptoms occursing, very shight suppuration from the wound, and in about three weeks he was entrely well. I have seen the boy unce, and heard from him a few dass asou, and his frends say that there is no evidence that he is in any way injured by the occurrence. This cestanly ts a very remarhuble cose, and goes to prove that where there is no cencustum or no cump) cistu', no matter how mech the bram itself nay be tacerated, (withan scasomable limits of cuurse, ) the prognosts in mort instances is favorable. The only result that I fear may possibly occur in this case, at some future tume in the boy's life, is cotiepsy; and this I thank might happen from some spicula of bone, at the point of unton, growing down and pressing upon the bmin. I have seen several of these cases occurring after compound fractures of the skull, and I therefore imagine that it might purhaps happen in this case.

I have now, gentlemen, concluded the remarks that I miend to make at present, and I hope that

I have not been tedious. I was not anare, until the committee waited on me a few days abo, that a paper would be expected from me just at present, laving understood that other gentemen had promised to supply them for some time. I have therefore lad very little time for preparation, my time having been fully occupied in other ways; and 1 trust that you will excuse any imperfections that may appear in this paper. If I have atoroled any information or instnction, I shall be much gratified. At any mate, I thank you very much for the kind altention you have manifested to me throughout.

## Corrssponutute.

## APPENDLX TO DAPERS ON A NEW REMEDY FOR DYSENTERY.

## (To the Filsor of the Ianect)

Str,-Since the paiblication of my two papers on Dysentery in the Edin. Med. Journal, rS6s and 1867, now republished in the August number of the Lascet, cases have occurfed which conumes me that the medicine I bave therein recommended though usually speedily successful, even where there was reason to apprehend a fatal result, yet in a very small proportion of instances, apparently not more severe than others, it failed though given near the commencement seemingly possessing in these, no control over the disease. The following from the Rev. Dr. Robb, Calabar, Western difrica, 28th Sept. 1870 , shows the general reliability of the medicine, and the infrequency, nevertheless, the occurrence of failures.
"I know of hardly any cases of dysentery, even of the worst kind, where your medicine has failed. Such is its tepute, that negroes with whom I have no acquaintance, come to me from distant villages asking for it ; this from what I know of the mert mature of the native character, they would never do unless they had experienced striking benefit. To met the medicine is of very great value. I lave been informed of a few failures in the hands of other missionaries, but my success has been so great, that I suspect some error on the part of the giver or taker." Another missionary at Calalar reports in the United Presbyterian Record, $\mathbf{x} 66$, the confidence of the natives in the remedy; failures are not mentioned.
I.ike Dr. Koblb, I long supposed that there was some ertor on the part of the giver or taker, but a few cases which came under my omn care undeeeived me. In some, as in those mentioned by Dr. Ogden and Dr. Clarke, the cause night be intolerance of opium, in others I have surpected individual or epidemic constitution, bat a mase occurred last autumn which set these lionries at fauth. My gardener in the autumn of 207 x , was seized with dysentery, and was cured by a single dose ; and in lug. $\mathbf{1 S}_{7} \mathbf{2}$, he was seized whate in Toronto, and huried home to take the medicine of which he had some doses remaining from the preceding year. These not relieving hm, he sent for me. He had taken the Digitalis combination, I gave him the Squill, next gave these without opium, but the discase still getting worse, I resorted to laudanum alone, when improvement and uttimate recovery took place. His two daughters who waited upon him were seized pretty severely with dysentery, but were readily cured by the Squill combination with opum. In the father's case, the fallure occured evidently neither from intolerance of opium, nor from indsvidual or epidemic constitution.
The ranty of failures increases the dufficulty of finding the change needed to give the medicine the same power as in the great majority of cases. At one time I fancied that the substitut:on of Bisulphite of Soda* for Digitalis or Squills would supply the deficiency, inut expenence has shown that where the Digitalis and Squill combinations frii, it fails also. I diatter myself that $I$ am now nearer the solution of the difficulty; whether I am or not may possibly be determined by this autumn's experience.--

I have received the following notes on typhoid fever from Dr. McIntyre of Hespeler, and though I have had very little expenence of the medicine in such cases, it is evident that its power over discharges from the bowels, attended by ulceration of the mucous membrane, and for bringing on tranquil slecp without natcotism scem eminently to adapt it to this disease.
Dr. Melntyre has treated about fifty cases of typhord fever with one or other of the three combinations, opium being added as long as diarrhoca was present. Though several were dangerously ill, all recovered, except one, who died from a relapse

[^1]produced apparently by improper food. The effect of the medicine may be generally stated as reducing the fever from a severe to a mild type; the disease was not arrested itit any part of its course, but it was mitigated, and most probably shortened. Sleep aluass came on after a fe: doses, the pulse fell in frequerecy, ath delrmm diminished; this last did not occur when the medicine was given from an early period. In several instances the stools had a coffec ground apmance, and in others there was blood. Fiven where the disease was far advanced, the patient mving and much sunk; opium in the combination, always in small doses, however, did not add to the torpidity, or bring on any alarming symptom. Possibly the other ingredients act as antidotes; they appeared to possess thes quality in Dr. Brown's case of dysentery, (Montreal Med. Chron. 1858, Edin. Med. Journal 865 .)
A young man, a near relative of Dr. McIntyre, on the arst day of the disease, was so ill that his medical attendants, comprising several of the most eminent in Toronto, believed be would not live any longer than e.; hours. He was so insensible that he conld not be got to pat out his tongue when asked. 'The sphineter was relaned, and had lost its power, the stools were therefore frequent, 10,15 , and 30 times a day, often profuse, occasionally of a coffee ground colour, or streaked with blood, and with the urine, were vorded unconsciously in bed. There were numerous petechias. Patse riq.

The case baving being pronounced hopuless, Dr. M. who saw him for the first time at this jancture, whesitatingly gave 10 grains of the Digitalis combination with half a grain of opium. There was no aggravation of insensibility, and the diarthoca ceased when he had taken about eight doses, after which the medicine was contuned wathout opium: the greatest number of doses of the former in one day was four, and of the latter three. He soon began to sleep, insensibility diminished, and in a fortuight altogether censed, having contimued four weeks. The recovery was perfect.

WM. KERR.
Galt, dugust 8, 2873.
(To the Eilwio of the Lanoct)
Sir,-I send you a few biliary calculi which I obtained from a patient of mine. For some time prior to the passing of these, she com-
phaned of numbnes of the right side, irsegularity of the bowels, redecsness at nirhe, rheumatic pribs in the joints, vertigo, occasional nausea, and sometines scsere puin at the epigastrium. She is a harge plethoric noman about forty ycars of age, and of a bitious temperament. She said that she had treen treated by a number of physicians without recciving any bencfit. I suspected that there were calculi, and gave her the remedies prescribed by Tamer, Watson, and others without benctit. I then resolved to try a dose of lis. Hydrarg, every alternate night, and a tablespoonful of Ol. Olive, threc times a day. This treament had the effect of bringing amay about 150 of such calculi as I send you.

The most striking peculianity about the symptoms, was that the attacks of sp, ism of the stomach came on regularly at intervals of about a week. I directed her to have the foeces examined regularly and she found by so doing that after each spasm, there were a number of calculi (varying from 6 to 30 ) passed during the nent twentyfour hours. She is quite well now, and has been so for six months.

I might just say that I have had several opportunitics of testing the value of this treatment in removing biliary calculi, and have almost invariably found it to answer the purpose better than any other remedy that I have tried. I cannot explain the modus eferandi of the remedy, but I would like to have you try it as soon as an opportunity offers, and let me know the result.

Chas. Chamberban, M.I).
Leamington, Aug. 1oth., 1873 .
(Tu the Edimo of the labect.)
Sir, - 1 clip the following from the Nortrod Registor. It speaks for itself. Mrnico.

Alug. ith., 1873 .
V* PATTERSUN, M.D.
Graduate American University of Phladelphia, has had two years experience in the extensive practical Surgery of the Blockley. Hospital, and the Well's Eye IIosputal of that city. Licentiate of Omario and Registered Member of the College of Physicians and Surgeons. Residence, at Mr. Moffatt, Colborne St. Nonwood.

## IMPORTANT TO THE SICK.

You will never have a better opportunity for restoning your health than now. All who are suffer-
ing frem chromic, lingering doedse ami eqpecially ; those who base lutherto biled we when any relief, ate mited to try Dr. lestrtekson, wha is successfully treating diecrose of the Athro. 1 (Gravel, Drops, Khamatsm, Fiser, Suso, Cancers, Consumption in tecond shages, Bronchits: and all discascs roulting from fialts, wounds and bruises.

Dr. latterion's new method of treating lirenchitis, Swelling of the Throat and nerk by Inhalation, las been attendex! with extraordinaty sucesos.

Pericet cute for in crowing fernids and all discoses of the fect. Niew remedy warranted to prevent the teeth from derayng and arrest the progress of the tectin already injured. All who prifer sound, matural tee th to uthfichil onts should hase it.

All who are sufferng from paus in the Stomarh, Side or kack, Shortuis of Breath, Pappation of the Heart, and fatigue on the shifhest exertion, will do well to obtain relici letiore they beome two decply seated.

Dr. Patterson is prepared to sisit putients in the comatry by night or day. Charges moderate. Apply carly, that youmay the souner be rectord to health.-Neraied Regivir.
[Wearenot at all surphoted'at the alove exh bution. We krow somethang of the man, and our experience of ham has been fully verined. It will be observed that the Degree he profesoes to have, is from an Instatution, whose charter ha, been cancelled by the legislature of Penniglsama, and we tast-the college of Physterans and Surgeons of Ontario may soon have the power to cancel the liecnse of etery such unworthy. member as he shows himself to be.]-ECd.
(To the Biluit if the Lavera.)
Sir, --The announcement of Bishop's College for the present year, speaks of its attendance of twentyfive students daring the first, and thinty during its second session, as a record of which no other medical school in the Dominion can boast. Trmity College Medical School, Toronto, to all intemts and parposes a mer instatution, thaving ceased to exist for many years, until resuscitated two years ago), had fifty-seven students in attendance durin's the first, and sixty during the sccond sesion,-in other words, upwards of twice as many as Bishop's College.

Wishing both Bishop's College and Trinity College medical schools all success,

A"TRNTMV" STUDENT:

## 2leporis of socirtics.

## C.AN.DDA MEDRCA, ASSORTATION.

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The 6th Innual Meeting of the Cimad. Medieal Aseristion uas held in the (Idd Fellow's Hall, (ity of st. John, N B, commencing on the Gth of . lugus.

IIr. I. A. (itme. M. P.. ocetepted the chatr. In the alnence of for Peltect, the Secretary, Dr. A. H Davd, of Montrest, wis appointed to that othice it muber of gentlemen trom St. John's and the lower Provinces were proponed and ctected to membership in the lsooctation. After some routine husmes, the l'revident dehvered an addires which we print in full beluw. Dr. limgston rad a wery able and carefully prepared papar on the " Itstory of Surgery" in Amenca, from the early tumes doun to the present day. This was rritically 'reviewed by several memben and occuped the greater part of tie thay and evening. Dr. Botviord atho read an ably prepared and wery interestong paper on "llybuene." The following are the mames of the members present.-Jos Cote, it Vallief. J A. Grant, Uluna, Charlec C. Hamitun, Comwalls, N. S., D. McN. Parker, Haliana, N. s. , J. F. Bhark, Malifa, N.s. © W. s Harding, St John; S. Z. Earle, St. John ; W. w Wickwire, Halifax, Jac T. Stecres, St. John ; S. T. Gove, St. Indrews ; T. I. O. Earle, St. John ; I. B. Botsford, St. John ; W. W. Hingston, Montreal; A. H. Iavid, Montreal; L. G. Turgeon, Montreal; Robert Thomson, St. Stephen; Paul R. Moor, Hopewell. Kobt. Black, Wichham, Q. C., W. Bayart, St. John ; L. McLaren, St. John, (ieo. F. S. Keator. St. John; F. W. Macpherson, Oromocto; J. 11. Witson, Sprngiteld, K. C ; R J. Lemont, Hampion ; F. G. Jordan, St John , Jom Waddell, St. John , If S. Bhanchard, St. John ; E. A. Vall, Sussex Vale, P. Robertson Inches, St. John, Dr. Smath, Portand; J. M. C. Fiske, St. John; J. U. Burnett, Sussex ; James Chrntic, St. John: John Berryman, St. John; Boyle Travers, St. John, J. A. Gegory, Fredericton; (i. J. Harding, St. John; Edwin Bayard, St. John ; James D. Sumpson, Fredricton Junction;
A. B. Atherton, Fredericton ; Benj. Coburn, Bright,
N. B. ; Thomas Walker, St. John ; J. W. Daniel
st John ; I. W. Sheftield, st. Juhn ; I. G. Deseler, St. joinn III. E. Bunsy, Memratacork; Wim I. G Dawion, Newastle, Mirauthe , Edwon lanel, Maliias: ©. Knhillad, Muntreal: M. C. Mardomatd, Narrows, (.C., X. B .

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Gentemin - Eux thy in year huse elaped since the lifst organization of the dsochation. (bur meetings up to the present have bren in the l'rovinese of Gueler and Ontario, but on no previous och ston have we asembled under more ausjitions rircumstinnees, welcomed ts we are to sn favourable a pontion as the City of St. John, the chacf commereial centre of the Prowince of New lrumwich From the wide sprend chamater of our New Daminion, we could not expect the prevence of mamy from datant parts at these mectings, still, on every ocration, the l'ramance as well as Nona Erotia, was ably repreeented; and $t$ is a reconnized fact, that to the actuity, energy ar 1 abinty of the gentemen trom the Mandme Provinces, who prestomsly tilled the I'roidential chair. thes Aswobiation ofres in a great measure sts present degree of usefutaens. Thus we shoreve ther? in medual science, as well as in diplomatic aftari, these Provinces have taken no small part in the prosperity of the whole Dominion.

It was with no assumed feelings of humile: that I expresed at our prestous meetug, at Montreal. my hively sense of the responsiblit, of the dutics that developed upon me, pertormet whth such marked distinction by my worthy predeceson. I trut that my efforts, however inadecuate, will not flag in the accomplishment of what is right and best for that melhe frotestion in which we should be, in the strict sense of the inspired words. " members one of another." We hase a common ontate in the science of medtene. We have a good work before us, and we do well to acknowledge our unity and activity, in promoting, by these annual mectings, a oneness of feeling in the profession of the lommion, and the advocacy of medial science in ts most progressive form ; sde by side with the hyg-toned and intellectual nembers of the American Medical Assoctation, alike interested in the advancement of medical science on the contunen. Relymg on the spurit which prompted you to conter on the the highest honour within the gif of the medical profession of this Dominion, I shall endeavour to discharge the duty as your presiding ofticer, in this position of tenst and responsibility. Knowing, as I do, the great value of ture in our short sessions, and how much work is expected to be accomplished. I shatl confine my remarks more especially to the appropriate subjects of the occasion. At our previous mectings much time was occupied in the discussion of a Dominion Medical Act, an able draft of
which was presented by Dr. R. P. Iloward, of Montreal. Aficr a lengiay debate, the condesion urnived as was that tha masure should iny pre fim. That the Medial lrotension of the Itutinion should be united ly an Iet in the Commons, is a pmint warmly and zcalousls adhocated by many of the aldent mombers of oar profieston. By the Confoderation Act, uriortunatel) all matters pertaining so Filaratic a, is well as to public health, do not rome wathen ane jundiction of the bominion Governuent, and ronyeyuently are strictly matter, of local Isgislation. It s, mich to be feyretted: still, by the consent of the lumat Gowmments, much may yet be accomplivect, tamards brimging about thone radical chmages, so netenary in order is simplay, in the wident and most rompryellate sease, .ubjects buth educational and samury.

In the Province of Ontano, for the fint time in this countrs, the three bodto - Allopathic, Elicette and Honscopathic- sat in one council and deliberated upon medical altairs. This mion was considered somewhat ungue to; staunch ofd ronsermatises in the proferion. Houcter, when the fact beame known, that during those tive years not an simple homesonathist or eclecter pasied as such in Onario, the reason of the umon ran readhy be comprehended. An uniform standard of medical eduration was established, wntten and oral exaninutions demonded fiom each student. and beins compulvory, was the means of directung on the proper chamel many who might otherwas have foumd an casier entrance into the medteal profession Recutily the Chei of the Homecpathic body has seen fit to wathdraw from the Council of Ontario, and we anticipate that evtra medical legishation may arise, in ordel to goatify those whe consider thei professional claims somewhat ignored. 1 merely mention the facts in order that the profession in these provinces may $a_{z}$ prehend the nature of that union so heterogencous and characteristic. The great aim and obeect of this Asrociation is to cultivate and advance medical knowledge, to elevate the standing of nedical education; to promote the best interests of the profession, and in ditect public opinion, as to the dutes and requirements of medical men, to encourage a fraternity of fecling in the profession in the most comprehensive seme With these objects in view, on the present ocasion tirce addresses will be dulivered, one in Surgery, by Dr. Imgston, of Montreal ; one in Medicine, by Professor Howard, of Mecill Unitersity, one in Obstetrics, by Dr. Hodder, of Toronto ; and one in Hysiene, by Dr Botsford. In addition, a Gold Mcdal is offered for the best Lsaxy on Zymotic diseases. We anticipate a lively discussion on many points of intarests which will dubletess arise out of those papers. We luok forward to a greater degree of activity in future in the issociation, as gederal medical topes will occupy the deliberations of all
 interested in work such as must tend to advance the best mterests of our profession in this country.

The subject of taedical education is a topic which .ttevery meetung of this association has reccived well-merted consideration. Although somewhat worn, it is of stuch vital importance that it cannot be too frequently discussed, more especially when we observe the present manifest disposition of the rising generation to rush through a cource of collegiate study, and enter into the practice of the medical professton, devord of that herary tmining so requiste in order to develop those powers of thougitt and observation so necessary, particularly where matters of life and death are concerned.
"A "mfession that does not equal the age of its educatwal machincre, that is unable or unwilling to represent its modes of thought, and its fonvard tendencies in its demands from those who seek admission tato ats ranks, ceases to be a profession; because it loses its ciamms to a scientific chameter.

Great changes are yoarly taking place in the pregress of human thought and human industry, and in each department of science, only those actheds are recognized which rest on an educational basis. A defective preliminary edecation is the first and undoubtedly the great error in the present system of medical education There should be one standard of prelimmary cducation eaneted in all the Provinces, from those who desire to enter the medical profession. A greater degree of unformity now-exists, than prior to our discussions on this subject. So long as there is a diveraty of interest in matters educational, difticulty will attend the bnnging about of that uniformity which would be amived at by a Dominion Medical Act. Inportant changes are usually slow in their development, yet we look forward to the time when we shall have one chicf educational centre, so guiding and darecting the medical profession of this emtire Dominion as to build up an rnlightened opinion, such as the members of this Association have at heart. While recognizing the progress of medical education in each Prownce, and the marked ability of those actuve in impartung a sound medical traning, we must awnit the spontancous action of all, alike interested, to extend the principles of confederation :e now enjoy, so as to unite us as a proiession, strengthen our position as a bady, and thus incrase our sphere of usefulness.

There is a point to which I woldd now resire

- call the attentoon of this Association, vi, the advisability of having thoroughly tramed female nurses. In private as well as in hospital practuce we constantly experience a great want in this respect. In each of the large cties having extensive hospital accommodation, some system might be inaugumied by which those desirous of becoming skilled nurses might aval themselves of the factities offered, and in course of time supply -. deficiency now genemily feit in the practice of the
profession; such skilled nurses to obtain certiticates of quatification and fituess for the position of honor and trust. livery town and city in the DGmimon would glady encouruge the ctaployment of such talent, and in that sphere woman would occupy her trie postion as the admimsterer of the procribed medicines, capable as she is of those soothing, deltate and kindly attentions, so necessary at the sick bedside, and so cheering and gratifying to the patent Miss Nightangale has thus fatly eapressed her ideas:
"I think the Angto.Saxon would be sery sorry to turn woman out of his own house, or out of cove hospitals, hotels, instututions of all kinds, and substitute men-housekecpers and men-matrons. The contrast between eican naval hospitals, where there are female murses, and multary hosputals, where there are none, is most strakug $\ddagger p$ point of order and cleanliness."

In points of sanitary domestic economy, woman carries off the palm, and, by her adiness and cleanliness, establishes a degree of order setdom seen witiout her. The cheenng look, the tender hand, the wathful cye, and the mnate powers of obervation, are such, that many hittle necessancs for the sick patient are carefully thought of, that might escape the sterner powers of the shilled and educated physicians.
The Sisters of Charity, who offichate as nurses in the Catholic hospitals of the Domunion, have, by their skill, dextenty and general neatness, carned a welldeserved reputatoon. Why should not the Protectant Institutions of Canada have a sisterhood ahke charitable and philanthropic?

The subject of medical evadence in courts of haw is one possessing no ordmary degree of interest. The value of such evidence in questions involving the causes of death, by unknown means, has been long recogmsed as naving attaned, with the vanous achievements of sctence, a remarkable degree of accuracy.

The position of the scientific expert is one of great importance. Ilis deductions are based on a sonnd $k n_{1}$ wledge of human structure, of the haws whth rexulate the organic functions; of the chemical labomtory in the system, possessing an action and reaction pecularly its own : and of the disturbint iorces, which induce denth, under extraordinary circumstances. The courts of law at home and abroad consider such testimony of great value, and upon it frequently hange matters of life or death In carryang out such investugations, both a thoroughly scientific knowledse and a perfectly dismerested mind are necessary. The great aim and object in view ts to bring to the surface the prnciples of truth and hon ur, no matter how trying the attendant crrcumstances. Medial men should bear in remembrance the responsible and dignified position they are called upon to fill in medical enquiry. It is not upholding the status of
our profession to find its members becone partisins m courts of law. Cases of malpmetice are not fortunately of frequen occurrence, and when suth do arise, the prefessional man should never be found occupying an unenviable position, as the instigator of enguiry for purely selfish and peronal motives. The whole profession suffers by disregard to ordmary professional courtesy. In courts of law our opintons wield a recognized power and enfluence ; and it is gratifying to observe, that in the various medical schools the subject of medical jurisprudence ts recewing well deserved consideratuon. Through the vanous medical Sockeaes any urregularitaes in the law courts should be reported, and, by this Association a power exercised that would be productive of the most benetical results Regulanties as weil as irregnlarities should Le: $^{*}$ noted by those interested in the welfare of the medical profession. In Canada we are yearly cnlargang and increasing oar medical periodicals, which give evidence of improvement by the abundance, variety and geneml excellence of the vanous contributions and selections. How is our Canadian Medical literature to be supported? This is a queston which must strike forcibly the most ordinary observer. In the larger cities as will as the miml districts there are those who, from their position, experience and knowiedge of matters medical, could do much towards buikhng up in this country such an expression of opinon as would tend materiaily to strengthen and consoldate the very best interests of our profession. It is gencrally acknowledged that there are more medical joumals than receive remanerative support, and that much labor, zeal and self-sacrifice are necessary on the part of both editors and publishers in order to promote the vitalty of this form of medical literature. Such effiorts are worthy of the highest commendation, for by means of local medical journals many facts are brought to light which otherwise might have passed unrecorded. In Camada, as in Great Britan, hospital reports are yearly acquring a greater degrec of importance, and our inedical students are being stmmatited thus towards the cultavation of one of the most necessary branches of study, viz, to observe righthly and report intelligently. The country as well as the city practitioner should contribute regularly to our joumals. The city, with its extensive hospitals, lange libmartes, well organ'цed acdical societies, has very great advantuges; and yet it has been remarked by an able winter in favor of the country medical man, that "orsginal thousht ts usually best cultirated in comparative solitude." A high degree $n^{r}$ excellence in medical journalism can scarcely ヶ. expected in so new a field $0^{\circ}$ enquiry; and e onsidering the efforts put forth to fan intes vitality such able journals as ti. London Lanct and London Alcdical Times and Gazclle, Edinbursh MIchical Fournal, and others of like ceicbrity, we should not be discouraged. In the recording of medical
facts, it is prodent and right that such should be commumeated piainly, avordmb, as far as possible, newly-coned words andabernise phraseology, whech in no way whatever will be acceptable to the phain, commen sense practitoner. It is common sense which is most required at the stck bedside; it is this seme after all which acheves the greatest degree of success, edtucated, enlightened, and elabonated through the vanous scientific achevements and astoundng discoverics of this age of progress. Every physician in regular practice in city and comntry, should not only take one or more medical journals, but contnbute as well. A large and lucrative practice, a high and influential positon, are not alone sufficient to perpetuate a worthy mame and reputation. These are pershable, and will die out, when well-tumed and well-recorded facts will last, and establish true and getuine worth. Zimmernan remarked "thult the greatest ithediat zorters of any age zecre the best physthans." Those who communicate their verws should rather be encoumged than decried. It is quite unnecessary to urge upon those who read the best medical journals, the importance of such publications. It is high time that those who fancy they can learn nothing from medical journals, should reture and leave the field to those more willing in every respect to keep pace with the progress of medical sesence in its various departments. Let us then as an Association encourage and uphold our journals, and contribute in every possible way towards buiding up and sustainang so worthy and so requisite a branch of literature.
In conclusion I would mercly advent briefly to the subject of Sanitary Science, identificd as it is with national progress, and sutrounded at present with more than an ordmary degree of interest We are daily in possession of tel-amphic news as to the prevalence in the Southem States of a much dreaded disease. Under such circumstances, I cannot permit this opportunity to pass without calling upon all interested to bring about, in every possible way, such sanitary measures as will tend to lesson the spread of cholem, should we be so unfortunate as to have a visitation of that disease. In the absence of danger, sanitary measures are frequently lost sight of, and even 2 moderate expenditure is a sufficient cause for the delay observed in carrying into opemation the necessary precautions. While there is no occasion for alanm, there is a necessity for action on the part of health authormes. Mir. Simon, the Medical Officer of the Privy Council of England, says:
"The dangers which particularly have to be guarded aganst, as favormg the spread of cholera contagion, are particularly two: first, and above all, there is danger of water supplies, which are in any degree tainted by house refuse or other like kinds of fith, as where there is overfor, leukage, or filtration, from sewers, honse danins, cesspools, foul ditches, or the like, into streams, springs, wells

or reservoir, from which the supply of water is drawn, or into the soil of which the wells are siturte,-a a danger wheth may evist on a small scale at the punp of a private house, or un a large scale, in the source of supply of public waterworhs, and, secondly, there is the danger of breathing air which is foul with efluvia from the sume sorts of impurity."
Filth percolating into well water is a very feriile source of disease." The report of Dr. Dallard, of Istington, conceming the propagation of entera fever, by milh polinted with enteric fever poison, through leakage into the well which supphed the catte with water, is conclusive evidence as to the occasional origin of so trying a diease.
The subject of saniary legistation is one of vast importance masmuch as by prevemable diseases. thousands of lives are lost which might be sared aanuatly. We require frech air, pure water and clean food; this brought about, even in a moderate degree, would conter an mestimable blessug on society at harge so strongly impreseded are the members of the American Mectical Associaton on this subject, that at their hast meeting, in St. Iovis, in June, a strong resolution was pasied recommending the cstalishment of a "National Santary Hureat,", with relation to the general (iovernment at Washington, similar to the Burcau of Agricutture. It is quite evident considemble new life must be thrown into this subject, and shoukd santary resunlations be thoroughly and ss stemattcally carried out, by skilled operatives, the advantage whit: would accrue to this Dommion would be beyond computation. An enlightened opmon nould thus be built up, through the exercise of which we might possibly effect such sanitary changes as would be most conducive to the lest inturests of the general public.
Gentemen of the Canada Medical Association, -We have assembled here for very important purposes, the eyes of the communty at large are upon us, watching, checring and buidung as alongs in the performance of duty. At lest we have onty a few shor years before us, and in the multipletery and diversity of work, a single life can accuaptes but hittle. Iect that tittle be well dome, keeping steadily before us the remarkable and striking aphorism of Hyppocrates, which has been paraphrised by one of our greatest lyrics:-
"Art 以 lomes and time is Accing;
And our heart, thongh stout and brave,
Stilitike mufled drums are leating
Funcral marche to the grave."

## second day's prochednags

The Association met at ro o'cleck, Dr. Grant in the clair.
The first business was the reception of the report of the nommatung committec.

Dr. Hamilton, the chaimm of the committce, presented the follomng report :-
Preident-Ior Maroden, Quebec.
Vicel'restlem for Ontario-Dr. H. H. Wright, Toronto
Vice-President fur (Quevec--Dr. Iingston, Montreal.

Yire-President for Nova Scotia-Dr. Jemings, Halias.
Yice-Precident for New Brunswick-Dr. S. \% Farle, St. John
Gen. Secretary of Assochition Dr. David, Montreal.
Gen. Treasurer of Associaton--Dr Robillard, Montreal.
Cortespondug Secretary for Ontatio --Dr. J. Fulton.
Corespondmy Secretary for (Quebec-1)r A J. Delle:an.
Correspondung Secretary for Nova Scolix- - Dr. I. F. Black.

Correypondmg Secretury for New Branswick Dr. G. I. S. Kentor.
The fullowing contuittes wete appointed on the subjects named. -
Prize lissiy Comausee-Dss. David, Howard, Fenwich, Rottot and leelter.
Medic.l Educatuon- - Dri. Grant, Howard, Wm Dayard .nd Yarker.
Medical Literature Drs. Black, Fenmack, Dagenai, Farrel, Bethane, Mcintosh, Fulton, (I)dright, Wickurc, Ruscill and Hamaton.
Nuroluy)-Drs. Cumpbell, Cammf, Harding and Delvolfe.
Publication Drs. David, Rubullard, Canpbetl, Trenhulue, Daghuas, Itmoston and Petter.
Auditing Committee-1)rs. Fenwick, Pelter and Turgeon.
The following gentemen were appointed to wnte evays on medicune, surgery, ophthalmology, and new remedies, to be read at the next meeting:-Dr. Howard, on medhcme, Drs. Farrel and Fenwick, on surgery, Dr. Trentolme, on midwafery; Drs A T. Reid and Drusseau, on hygene ; Drs. Desjardin and Rosebrugh, on ophthalmology; Drs. Derryman and ( $A$. Hamilton, on new remedes ; and Dr. Iingston, on mercury.
A discussion then took place upon the report of the committce appointed to prepare amendments to the constitution and by-haws, which were attowed to remain as they were.

Dr. Wi. Bayard brought before the Association a little girl who had been affieted with a very peculiar, interesting and rare injury, namely, the fracture and ultinate climination of the odontoid process of the axis. The Dr. made some interest. ing remarks upon the treatment of the case and upon the case itself, which was eaamined with much interest by the members present. The treatuent
of this formidable catse was quite successinl, and the hutle girl was in goed leath.

A committee was appouted, on motion of Dr. Botsford, seconded by Dr. Trasers. to bing the subject of vital stantics betore the notice of the Donmion 1 eghshature, for action thereon, const mg of Dre Grant, Tupper. Hamiton and Rotot, and the Presidem, ax effao.

The thanks of the Associaton were parsed to the steamboat and ralroad companes for courteses, etc., to the Odd Fellows for the use of their hall, also to the members of the Association in New Brunswick for fayors received

At one ordock the Society, accompamed by a number of insited guents, wisted the Lumath Asplum, to partake of a lunch on the grounds. is sperial tmin was provided for the occasion. The luncheon, wheh was served up in a spacouss and beautiful chamber in one of the wings of the Lunatic Asslume Building, was one of the most agrecable re-unions ever held in this part of Canada. It was given by the members of the Medical Profession of St. Johm to their brethren of the other prosmees and other guests, and win graced by a large atiendance of ladies Dr Steeves, lice-irendent of the New Bninswich dssoctation, octuped the char, supported on the rught and teft by His Hono: the Lient Governor, Dr. Grant, M.P, Hon. Edward Wilhs, the Mavor, Drs. David and Hingston, and John Boyd, Fsq.. and others. Among the other guests were ]. Lid. mond Barbean, Montreal, the Hegh Sberif. Tuke Stewart, Thomas Furlong, Wilham Jack, Silas Alward, H. Iawrence Sturdee, G. R. Yugsley, Esq, besdeds editors of the morning and evening papers and others. Brs. Botsford, Waddet and Travers occupied the viecechars.

The charman sud that as he supposed the com. pany would rather address themselves to the "solids and liquads' before them, than be addressed at length, he had his speech printeal to save trouble. There it was, pointams to the word Welcome. printed in evergreens. (Cheers.)

Grace was said by Res. D. scowl.
After luncheon, the usual loyal toasts were proposed, incladin: those of the ()ueen, the Governor General, and the Isent. (iovernor and his Council.

The last named toast was proposed by 1hr. Waddell, Medical Superiatendent of the Ahlum, who remarked that the (iviernur was Atornc; General when he was appointed supermtendem, and the institution had ever been warmly supported by the Government. (Cheers.)

The Govemor made one of his most telling speeches, narratug humorouls the natrow escape he had from the medical profession becance the could not speak well (laughter, and from curing or killing great numbers, flaughter) He seemed to think that imagimation had a good deal to do with the effeet of medicine, and gave a humorous illus.
emtion of a very hameses kind of pill, whech a hady had used with the happiest results. He then branched out into a grand strring mational speech, which delyghted every one, th the course of wheh he pad an eloguent and just tribute to the medral protession. He concluded by giving the healh of Dr. (irant, Prestdent of the Camada Medical Assochation.

Dr Gramt ably reaponded. He spoke of the gratification be had in visting thas fine mercantule emporium, whe tts magnticent harbour, and social and metligent people. He spoke of the growth of the asociation, and widd they never had enjoyed a more cordial reception than in St. John. He hoped the Muntume Pithstans would accept a return in ottand. (Checas.) Ite concluded by expressing hes best whes for st. John, and asking to hear from Dr. Botsord. (Checris.)
1)r. Botsord re-pinded, and proposed "Our Viviting Brethren," selectimg Dr Hengston as his victim, and destgnatug him as a rather confinned bachelor.

Ir. Ilington made a most amusug reponse. He said he would not make a state speech, for in that rase they would hnow it was prepared before hand, or perhap, already sent to press like the Governorivand ir Grant's 'great laughter). After convulsing the company for some tume, and declaring that he nad nearly sucumbed to the infuences of the far sen, he retahated on Dr. Botsford, stating that when be ghded into matrimeny, he intended to follow Ir Botsford's example an arry parthoular.

Speeches in the same happy stran, in tepounse to surious tuasts, were thade by Des. Kobmard, David, Wickwire, Hamtion, Bayard, Walker, Travers, and Waddell, and some lery excelient and amuing speeches were aloo made by the Mayor, members of the prese, and uthers.

The members of the band flate of the oznd Batalion) added much to the pleasure of the company, by phams at intervals a fine selection of marcho, waltere, galops, 4uartettes, icc., windmg up, with the national anthem.
The party retumed to the eity in the eveming, hasing sucnt the afternoon most agrecably and profitably.

It was arraned that the next meetng of the Issociation sheuld tatke phace at Nagara Fails, on the first Wedueday in dugust, 1874 .

Sulsth some cases of this disease, which had resisted a vancty of treatment, were cured at Bellesue Hosputal, atmest at amer, by the hypodermic injection of morphat over the seat of pan, phanging the needle deep into the tissues, perhaps to the depth of one or one and a-half inches N. I: ALidual Rcurd.

## sinctux Gltinters.

RUTEE OF THE OBSTETRICAL SOCIETY OF PHILADELPHIA FOR THE MANAGLELENT OF CHILIDREN DURING THE HOT SEASON.

Rule I.- -3 athe the child once a day in tepid water If it is feeble, sponge it all over twice a day wilh tepid water, or with tepid water and vinegar. The health of a child depends much upon its cleanliness.
Rule 2.-Avoid all taght bandaging. Nake the clothing light and cool, and so loose that the child may have free play for its limbs. At night undress it, sponge it, and put on a slip. In the morning remove the slip, and dressthe child in clean clothes. If this can not be afforded, thoroughly air the day clothing by hanging it up during the night. Use clean diapers, and change them often. Never dry a soiled one in the nursery or in the sitting-room, and never use one for a second time without first washing it.

Rune 3.-The child should sleep by itself in a cot or cradle. It should be put to bed at regular hours, and be early taught to go to sleep without being nursed in the arms. Without the advice of a physician, never give it any spirits, cordials, carminatives, soothing-syrups, or sleeping-drops. Thousands of children die cuery year from the use of these poisons. If the child frets and does not sleep, it is hungry or ill. If ill, it needs a physician. Never quiet it by candy or cake; they are the common cause of diarrheea, and of other troubles.

Rule 4.-Give the child plenty of fresh air. In the cool of the morning and evening send it out to the shady sides of broad streets, to the public squares or to the Park. Make frequent excursions on the rivers. Whenever it seems to suffer from heat, let itdrink freely of ice-water. Keep it out of the room in which washing or cooking is going on. It is excessive heat that destroys the lives of young infants.

Rule 5.-Kcep your house sweet and clean, cool and well aired. In very hot weather let the windows be open day and night. Do your cooking in the yard, in a shed, in the garret, or in an upper room. Whitewash the walls every spring, and see that the cellar is clear of all rubbish. Let no slops collect to poison the air. Correct all foul smells by pouring carbolic acid or quick-lime into thie sinks and privies. The former article can be got from the nearest druggist, who will give the needful directions for its use. Make every effort yourself, and urge your neighbours, to keep the gutters of
your street or court clean.

RuLe 6.-Brast milk is the only proper food for
infants. If the supply is ample, and the child thrives on it, no other kind of food should be given while the hot weather lasts. If the mother has not enough, she must not wean the child, but give it, besides the breast, goat's or cow's milk, as prepared under Rule 8 . Nurse the child once in two or three hours during the day, and as seldom as possible during the night. Always remove the child from the breast as soon as it has fallen aslcep. Avoid giving the breast when you are overfatigued or overheated.

Rule 7--If, unfortunately, the child must be brought up by hand, it should be fed on a milk diet alone, and that, warm milk out of a nursing-bottle, as directed under rule $S$. Goat's milk is the best, and next to it, cow's milk. If the child thrives on this diet,no other kind of food whatever shouli be gizen zehile the hot ateather lasts. At all seasons of the year, but especially in summer, there is no safe substitute for milk to an infant that has not cut its front teeth. Sago, arroni-root, potatoes, wrin-lour, crackers, bread, cocry patented food and cvery article of diet containing starch, can not and must not be acpended on as food for wery youns infants. Creeping or walking children must not be allowed to pick up unwholesome food.

Rule 8.-Each bottleful of milk should be sweetened by a small lump of loaf sugar, or by half a tea spoonful of crushed sugar. If the milk is known to be pure, it may have one fourth of hot water added to it ; but, if it is not known to be pure, no water need be added. When the heat of the weather is great, the milk may be given quite cold. Be sure that the milk is unskimmed ; have it as fresh as possible, and brought very early in the morning. Before using the pans into which it is to be poured, always scald them with boiling suds. In very hot weather, boil the milk as soon as it comes, and at once put away the vessels holding it in the coolest place in the house-upon ice if it can be afforded, or down a well. Milk carelessly allowed to stand in a warm room soon spoils, and becomes unfit for food.

Rule 9.- If the milk should disagree, a tablespoonful of lime-water may be added to each bottleful. Whenever pure milk cannot be got, try the condensed milk, which often answers admirably. It is sold by all the leading druggists and grocers, ard may be prepared by adding, without sugar, one tea-spoonful, or more, according to the age of the child, to six table-spoonfuls of boiling water. Should this disagree, a tea-spoonful of arrow-root, of sago, or of corn-starch to the pint of milk may be cautiously tried. If milk in any shape camnot be digested, try, for a few days, pure cream diluted with three fourths or three fifths of water-returning to the milk as soon as possible.

Rule 1o.-The nursing-bottle must be kept perfectly clean ; otherwise the milk will turn sour, and the child will be made ill. After each meal
it should be emptied, rinsed out, taken apart, and the tube, cork, nipple, and bottle be placed in clean water, or in water to which a little soda has been added. It is a good plan to have two nursing bottles, and to use them by turns.

Rule it.-Do not wean the child just before or during the hot weather, nor, as a rule, until after its second summer. If suckling disagrees with the mother, she must not wean the child, but feed it in part, out of a nursing-bottle, on such food as has been directed. However small the supply of breast milk, provided it agrees with the child, the mother should carefully keep it up against sickness : it alone will often save the life of a child when everything else fails. When the child is over six months old, the mother may save hor strength by giving it one or two meals of stale-bread and milk, which should be pressed through a sieve and put into a nursing bottle. When from eight months to a year old, it may have also one meal a day of the yolk of a fresh and rare-boiled egg, or one of beef or mutton broth into which stale bread has been crumbled. When older than this, it can have a little meat finely minced; but even then milk should be its principal food, and not such food as grown-up people eat.

For the coivenience of mothers, the following receipts for special forms of diet are given:
Builed Flour, or Flour Ball.- Take one quart of good flour, tie it up in a pudding-bag so tightly as to get a firm, solid mass, put it into a pot of boiling water early in the morning, and let it boil until bed-time. Then take it out and let it dry. In the morning, peel off from the surface and throw away the thin rind of dough, and, with a nutmeg-grater, grate down the hard dry mass into a powder. Of this, from one to three tea-spoonfuls may be used, by first rubbing it into a paste with a little milk, then addling it to about a pint of milk, and, finally, by bringing the whole to just the boiling point. It must be given through a nursing-bottle.

An excellent food for children who are costive in their bowels may be made by using bran-meal or unbolted flour instead of the white flour, preparing it as above directed.
Rice-Watcr.-Wash four table-spoonfuls of rice, put it into two quarts of water, which boil down to one quart, and then add sugar and a little nutmeg. This makes a pleasant drink.
A half-pint or a pint of milk added to this, just before taking it from the fire, and allowed to come to a boil, gives a nourishing food suitable for cases of diarrhœa.
Sago, tapioca, barley, or cracked corn can be prepared in the same manner.
Beef-Tca.-Take one pound of juicy, lean beef, -say a piece off the shoulder or the round,-and mince it up with a sharp knife on a board or a mincing-block. Then put it with its juice into an earthen vessel containing a pint of tepid water, and
let it stand for two hours. Strain off the liquid through a clean cloth, squeezing well the meat, and add a little salt. Place the whole of the juice thus obtained over the fire; but remove it as soon as it has become browned. Never let it boil ; other wise most of the nutritious matter of the beef will be thrown down as a sediment. Prepared in this way, the whole nourishment of the beef is retained in the tea, making a pleasant and palatable food. A little pepper or allspice may be added if preferred.

Mutton-tea may be prepared in the same way. It makes an agrecable change when the patient has become tired of beef-tea.

Razi, Becf for Children.--Take half a pound of juicy beef, free from any fat ; mince it up very finely; then rub it up into a smooth pulp either in a mortar or with an ordinary potato-masher. Spread a little out upon a plate and sprinkle over it some salt, or some sugar, if the child prefers it. Give it with a tea-spoon or upon a buttered slice of stale bread. It makes an excellent food for children with dysentery.

At a meeting of the Obstetrical Society of Philadelphia, held April 3 rd, 1873 , the undersigned committee was appointed "to Consider the Causes and the Prevention of Infant Mortality during the Summer Months." The foregoing rules, drawn up by this Committee, were revised and adopted by the Society at a meeting held May ist, 1873, and ordered to be published.

> Dr. William Goodell, Chairmal.
> Dr. J. Forsyru Meigs.
> Dr. John L. Ludlow.
> Dr. Alber' A. Smith.
> Dr. John S. Parry.
> Dr. William F. Jenks.
> $\quad-$ (Medical Times.)

THE CERTIFICATES OF FAMILY PHYSICIANS.
by william c. wey, m.d., elmira, n. y.
An engagement between a physician and his patient, in its mutual obligations, is as binding, morally and legally, as any other implied cortract, and the failure of either party to perform makes him liable for thesconsequences of his dereliction. In this respect the profession of medicine possesses no advantages over the trades or the ordinary commercial relations of society. Estimated by such a standard, medicine, while advanced to the dignity of a profession, is surrounded by and made subservient to the laws and usages which govern the arts and crafts, and is usually amenable to judicial review, discipline, and punishment. Unlike the arts and cralts, however, medicine is obediem
to a law within itself, which may or may not find expression in a code of carefully-prepared rules. Long before a written code of ethics found favor in the profession, which is a very modern suggestion, a sense of personal or individual honor among physicians served to keep inviolate the nature and terms of the engagement or contract betreen them and their patrons. The force and character of this agreement, though not strengthened by a written code, simply finds amplication in its precepts and declarations.

In a better, in one sense, though not in a more scientific or learned age, when a higher standard of honor prevailed, a written code was not required. Ignorance of professional ethics could not be ac-
cepted in extenuation of their violation. In a cepted in extenuation of their violation. In a
looser period, with cheapened education, and, as a consequence, diminished honor and responsibility, a code of rules became necessary for the purpose of keeping the ranks in the profession informed and educated up to the standard of accountability current among the wiser and more loyal members of the brotherhood. In these days, as in former days, with or without a written code, a few lead the way, and the many follow or disregard the call, as they are impelled by cducation, habit, policy, or some other motive.

I am led to consider this subject in connection with the question-"Ought a family physician to grant a certificate in case of application for life insurance?"

I have no hesitation in asserting that it is no part of his duty to furnish information to a life insurance company in respect to the health of individuals who may have placed themselves under his professional care. Not only is it no part of his duty as a medical man, but it is virtually a betrayal of the trust and ..onfidence imposed in unreserved relations wetween patient and physician.

Even with knowledge that the person to be insured is, and always has been, in such absolute health as to make reply to the questions asked on such an occasion a mere matter of form, and an endorsement of his physical and mental state, like endorsement of his credit or character, it is quite as much a professional act and service as if the physician's statement raised a doubt in respect to the integrity of the applicant's pulmonary or psychological functions.
If it is a friendly office purely, it carries professional significance along with it, thereby violating obligation on the one hand under cover of a personal favor, and communicating valuable information to a life insurance company on the other.

If the certificate is given for a fee, paid indifferently by the party seeking to be insured or by the company, it suggests an imputation that a monied compensation may influence the judgment to be rendered. This objection, in view of the paltry sum usually paid by an insurance company, is
scarcely worthy of consideration. In the former case it may be well to observe that an opportunity is offered an unscrupulous applicant and an equally unscrupulous "family physician" to combine, and for a purpose to produce a certificate. which shall reveal a standard af health upon which a policy of insurance will be sure to follow. If a physician, occupying the position of medical examiner for a highly reputable life insurance company, was found so culpable and criminal as to recommend a consumptive, in the last stages of disease, as a firstclass risk, on whose life a policy was issued, it is not difficult to conceive of collusion between an applicant aud a family physician prompted by motives equally offensive and condemning.
It is excecdingly disagreeable to dwell on this feature of the subject, as evidencing loose morals in the profession. An ideal standard of medicine takes no cognizance of such illustrations of baseness. Every-day practical experience with the profession as it is, and not as it should be, or indeed as it would be, if raised to an even or uniform basis by education, has forced upon us the unwelcome conviction that, in spite of codes and journals and books and teaching from an endless variety of sources, the average men in our ranks are not above suspicion of being governed by selfish and mercenary motives.
The opinion of a reliable family physician, far beyond the recommendation of a medical examiner, carries weight with a life insurance company. Hence the importance of obtaining his approval of a risk. Paradoxical as it may appear, the physician knows the applicant, the corporeal applicant, more intimately than he knows himself. In the undisguised character of patient, his physical, mental and moral attributes have been clearly revealed to his attendant. Nothing has been withheld, simply for the reason that to keep back information would limit the ability of the physician to render prompt and efficient aid and service.

Considering the confidential relations thus engendered and the value of the information acquired by the physician, and the usual questions asked in this connection by a life insurance company"Have you been in the halit of seeing him frequently? Have you given him medical attendance? If so, for what diseases ?"-must appear like an attempt harshly to invade the precincts of the sickroom, and cause the medical attendant to betray the interests of those who have impricitly confided in his truth and honor.

The questions above given cover the whole ground of a physician's intimate intercourse with his patient, laying bare his responsible and guilty acts as well as the intirmities for which he is not accountable.

Surely it is not the object of life insurance companies to seek to compromise the office of family physician, or to invite, or for compensation to
engage, him to do violence to his scruples and convictions. The custom of requiring a family physicians certificate in application for life insurance was established as a matter of business, without considering the nature of his engagement to his patient or the extraordinary demand which it exacted.
It is remarkable that a common professional sentiment did not, long ago, protest againsto such an attempt to procure information, on the ground, already mentioned, of infraction of ethics, and disregard of individual obligation and propriety. That a more correct estimate of this question is current in the profession I am disposed to believe, from pretty large observation among my colleagues, and from the more general extension of life insurance interests in every city, village, and hamlet in the State. The subject is thus brought directly to the attention of medical men, and they are compelled to give it more than usual scrutiny,- such scrutiny as embraces the delicate nature of the duties of the family physician in a specific as well as in a more enlarged and comprehensive field.Medical Record.

## WHAT IS CINCHO-QUININE?

[This quertion is often asked by physicians who have not been made acyuainted with the nature of this important agent, and therefore we republish the following article, which appeared in the Boston Fournal of Chemistry, and which presents in a clear anc explicit manner its nature and uses[:-
The chemical manipulation of the Cinchona or Peruvian barks reveals the presence in them of quite a number of most remarkable, complex bodies. No vegetable production, except the poppy, affords such a marvelous combination of valuable medicinal principles as the loxiz and calisaya barks, and no substances have been studied widh greater care or more intense interest by chemists. Nothing short of the subtle chemical forces controlled by the Infinite One could construct from the elements of the earth and air a bitter principle like quinia, or those other agents associated in bark, so closely allied to it physically and chemically: A handful of the finely comminuted fibres of the yellow bark, which resembles physically a dozen other varieties, is made to yield by the chemist, when treated with aqueous and alcoholic liquids and acids, a dark, bitter solution, unattractive in taste and appearance. If the process is skilfully conducted, or exhaustive in its results, there remains, beside the solution, a portion of woody fibre, inert and almost tasteless. It holds considerable coloring and some waxy matter, together with a little tannin; but the active chemical or medicinal principles have been removed, and
are held in the dark liquid. The exhausted bark is not entirely worthless, for it may be dried and used as fuel. But what of the dark liquid ? From this the chemist obtains, besides other substances, a portion of beautifil, white, silky crystals; not wholly of one distinct kind, but of several, all of which possess about equal chemical and therapeutical importance. No wonder it seems to the uninitiated in chemical manipulation a difficult work to perform. It is, however, quite easy to the thoroughly instructed. The first principle isolated may be the quinia. This is not held in the bark in its naked alkaloidal condition, but locked up, in the form of a salt, with another principle called kinic acid. In the bark it is kinate of quinine. We isolate the quinia, tear it from its embrace with kinic acid, throw that away, force it into a kind of matrimonial alliance with sulphuric acid, and in this condition of sulphate of quinia, use it as a medicine. This kinic acid marries into several other families resident in the bark, prominent among which are cinchonia, cinchonidia, quinidia, etc. Precisely how many of these alkaloidal principles the different kinds of barks contain, is unknown; but it is safe to assume that there are as many as four others which, although not distinctly pointed out, are tolerably well recognized. Thess kinates are all kindreed in nature, and all labour to the same end, when isolated and set to work as therapeutical agents in the human system.
In one hundred ounces of good yellow bark, we obtain about two and thrce fourths ounces of quinia, and two ounces of cinchonia, with variable amounts of the other principles, but less than the two named. It is to be regretted that we cannot zemove the different families of kinates from the bark in their natural state of saline combination. It seems reasonable to suppose their action upon the system would be more salutary than in other forms. It is easy to isolate the kinic acid, and having the alkaloids, the kinates of quinia, cinchonia, etc., can be re-formed; but in these chemical changes so much disturbance to natural organic combinations is made, that, practically, we realize no marked advantages. It seems unnatural to force a natural alkaloidal base out of its association with an organic acid, and re-combine it with a mineral acid. This we do in the preparation of the sulphate of quinia. However, as it has served so good a purpose for many years, it is not best to quarrel with the theory.
All the alkaloids of bark possess about equal febrifuge and tonic properties, when isolated and administered in that condition. This has been proved over and over again by all competent chemists and physicians, from Drs. Gomez, Duncan, Pelletier, Caventou, down to the time of Liebig's researches, a quarter of a century ago, and from that time to the present by a hundred careful chemical and medical observers.

How the one alkaloid, quinia, came to supersede the olleers, and drise them into the lazekground, is easily understood, when we remember that it was about the first that was diwinctly climinated. studien, and experimented with; and the colat it arquired cauned wetythang clee to be bexperted. The matural lork, binding all the alkaloids, the quinia, cinchoma, quanda, cte., has alway, been oboersed to produce inore cticient and prompt sesults, both is a tonic and fetrituge. then the quinis, or either of the other pracypes in themscher ; bat holdmg ako, as at docs, tannm. zum, ! starch fibtrine, and colormy matere, alt of wheh are medicimaly interterny or incrt, its use is rindered inconvenint and inadmessibe on many cane Besides, it is apt to produce disturba. re of the gastric functions of an moplensmt charater. Seting upon the idea that the natural aikalondal priuciples of bark, wa ther simple, unchanged condition, seprated from the grow, woody, and other matters, would better s:abserse ath therapeuticat ends than the batk themeches, or aty she of the alkaloids separatels enphoyed. Com ho (Gumme has been prepared.

Cincho-gainine contams to extemal agents, as, sugar, heonce, starch, magnesia, etc $/ t$ is a/thelfy sompesed of the hark athaderds: int, qumu: and, cinchonia; grd, qumda; ; th, cunchonidia; 5 th, , other alkaloidal pranciples present in barks, which bave not been distinctly isolated. and the precise nature of which are not well undertood. In the heautiful white amorphous sales of CinchoQuinine, the whole of the active iebnfuge and tonic : principles of the cinchona barks are secural with- out the incrt, buiky hiomm, gam, etc. It is believed to have the e advantages over sulphate of quinine: !
sst. It texers the full therapeutic indluence of sulphate of quinine, in the sarue dones, without i oppressing the stomach or creating nausen. It does not produce cerebral distress, as anphate of ${ }^{i}$ quinine is apt to do, and in the large number of rases in which it has been tried, it has been found I to produce much les constitutional daturbance.
and. It his the srat aderuntage of baths natis' tasticis. The bitter is very slight, and not unpleasant to the most sensitive, delicate woman or cluld.

3 rd. It is less costly than sulphate of gmme Like the sulphate of quinine, the price will thetuate with the riseand fall oi barks, but it will always be less than the lowest market price of that salt.
fth It metets indications not met by that solt.

## TILERAPEUTIC REVIFW.

The Raaista Clinica de Bulugna gues occasionalle an adminable summary of therapeutics, from which we borrow some paragraphs.

Carboli Acil has been prased m prurso and pronitus, subcutanevusls ingected in duser of about
one centigramme of the actd mug!ed with water It has been taed enternally in acute articular rhenmatism as a iniment mingled with limeed oil.
fremic hax been recemty recommended in caso, of strumoms entaried glands of the nech, and also in jellayra.

Bromene - Inhatatuas of hromme have been used in cruap, and diphthentis: 30 contigramures oi brumine, 30 oi bromide of potasimm, and 150 grammes of wates are combined in a lotions, and a sponge mbibed with the thud is placed betore the pratients mouth for tise ot ten tmbutes every hour.

Liromate of $[\mathrm{m}, \mathrm{m}$ is employed b) some in ase of epermatorthea and thioluntas! semmat embssions. in domen of hir cen to themty-fite centegrammes occasonally. and, before the pathent gee to lesep. in a dose of tify centugrames.
fironter of Pitastum has reantly been med in conco of the suktelo of pitegtates y, and in che of kete orrhea, cfic tung a ure m lew than tho month
 in infiats, in doxs of three centigrammes every two hours.

Brembedo of Sdenem has a vimiar efficacy to that of bromide of potasum in cjuteps, and proved a cure in one case of tetanus.

Caffec has been given in infistion in cases of infantite typhas lever.

Conium has been used uceessfilly in cases of mana accompanied liy muscular agitation. It act on the motor centre, sparing the sensory trasts. (of twenty-fise patients treated by this substance, wenty-two times the muscular agtation subsided.
Hy drate of chourat has been used in rases of noctumal incontinence.
Chiteride of Potasshum thas been used instead oi bromide in epilepsy, and it 1 asserted to be more efficariots. Dise 3.5 grammes to 5 grammes a das:

Gutatha has been recommended in cortain cases of psonasis.
codtere has been recommended in cases of nocturmal incuntmence of the ased ; one drop of the tuncture every hour in water. The tuncture has abo been recommended in doses of ten drops in intermuttent fever thrice daly:

Ludoform is used in chronic venereal ulecrs, and much praised as an anuseptic.
ludate of Silitior is recommended in whooping. cough.

Kousine is an excellent vermuiuge, and is given on the morning in doses of 1.25 grammes in a hitte syrup.

Phosthorus has been recommendex in chronic skin diseases in oil, or gelatine capsules containing each from two to sha milligrammes of phosphonis in oil dene mdurata, luphs, poriasis, and scrofulous skin diseases have been cured by such meass. The Doctor.

## DRISDALE ON TIIE TREATMENT OF PNEUMONIA.

The treatment of ${ }^{\text {metumonin }}$ varie- a pteat deal. cach case must be considered earetilly on its own merils, lye is the most important point to be con. vdered Children und old persons sery froquently de, howeser treated: and hence, it is chiethy in joung adults that any great latitude is permiselthe in trying experatuent in treatment. Such putients ate often treated by "eypertation" by physistanof modern tumes, and allowed to go on with atten tion to the general rakes of hygicne, such a -implicity in det. plente of treth cool air, ete.

Fith ree wh to the we of blecding in the pene monas oi young aduth, it wond seem that vatistic. we as favorable to this mode of treatment as to any other. But statisucs aroup together ill vorts of rases, and are, therctore ape to lead in the end to complete secpticem and expectant practec Phystans who formeriy bed in case of pacture nea proposed, fintly to dmums the quantly of the bivod for a time. Such bleedings sometimes seem to have done service in the hirst stage of pheumonia. whitst the creptatung rale is heard, and M Botiiland wed to say, that we might thus "strangle the pneumoma at its birth." But in strangling the diseave it was possible also 10 injure the patient. for the blecuings he practised often produced strious prostration, and favored the onset of the stage of red hepatization of the hang.

The more blecdings that are made the more does the fibrine in the blood inctease, since the proportion of blood globules kecps alhatys diminshang.

It was said that, by bloodjetting, the temperature of the bods nus lowered, and the heart's action lesoened. This is all truc, but the good result does not last The prabe, feeble at ten ut the moming, after a blecding, nses at nooll. And to ettect the end, we should require to draw blood every four hours. The inflammation of the lunts is a multiplication of cells and a profiteration of the twate of the lungs, a process of new formation of cells. Bleeding can do nothing agamst thas. Resorption cannol elante until the evudation has become fatty and granuiar, that 1 , demetheted, which takes place only on the siath or ninth day.

So that bleedmy is useless, except in the first days of pueumonia, when the crepitating rite is present; after this time it produces only anamia.

Slight blood-letting sometimes diminishes the dy spmexar in pneumonis, and sometimes sofitens the patse m sthemic cases. It should not be used in the delirimm of premmonic patients; for, as Dr Magnus Iluss has shown, such cases of delmous pncumonia occur usually in drinkers, or in the ayed. "Blecdmb" (xays Van Suieten) "kilts drinhers." Chindiren should not be bled, for er pectant treatment does best in their case; and, if

Dled, chaldrea may be rendered anamic tor tong. Old perion, again, should not be bled. The inhabiants of towns are rather pader than countrymen. but blecedog suit. nether catazen nor country people. Country people are niten raddeneel by the sun, and aho by airohol, and bleed ing somen exhash that stronth as well as that of townsmen.
'erhap, then, the trie treatment of petar. nin, cien of the ment thence form, consta in a lon dhet, cold freb atr, texpently racsed: and for drugs, the use of mall does of tutarived antimons in tit wese. Whether hot fomentation or cold applications (ice to the part atticcted) shouk be texert ts not. perhajs, quite clear. the formet are fes tirmablic, and often do great geod in reltermg the diyphual. The wet sheet will reduce the temperature sometumes fom 10.4 F . to 102 , and ghesient relied in fit sases. Alcohol so of no sente in pmeumona, or in tevers which, when treated caucfully by attention in emprerature, food and phenty of cool air, do thanally sery weil indeed: males, indeed, in worn out and ared perons, in whom pnemoma is often trom the firs clearl) deatined to end fatally, or in young chitden when the fever runs wery high.-Dillth Afcital Pres.

## UNIVERSITY OF MCHIG.AN AND HOMTE:ORATHY.

To answer numerous inquaries the following preanlle and revelutions, pane-d by the Board of Kegents at a late meeting, arc published:-

Wherent- The Iegotature of the state of Mitchigen at as last session recmacted the law of ${ }_{2} 5_{5} 5$, requiring the appontment of Honwopathe Protessors in the Medical 1)epartment of the Untversity, and, whereas, it bas always been clamed by the Board of Regents that the law was an intingement upon the nght, and prerogatises of the Board, and, whereas, the supreme Court of the State hav refused to grant a mandamus requiring the Regents to comply with the las, thereby sulstamally confirming their action, therefore,

Rosoled - That we mantan the pontton hereto fore taken, and des line to make the appomements required by the law.

Reshacid further- That we do this in no opirit of factious oppovtion to the apparent will of the Legilature, but becattse we believe the true and best interests of the Einiversity demand it.

Ricolted - That we re-altirm the former acton of the Board expresstty a walligness to take ottichat ciarge of an independent schoul of Homeeopathy, and connect it with the lincersity, whenever the meams shatl be prosided for the fayment of ats professors.


NEDMAN'S NFW GLASS ITOMIZER.


The Atomizer oi Dr. Robert Newman, of New York, is constructed on the yrinciple of one capml lary mbe enclosing another. The double-atr chamber of the raber tube presses the an through the inner tube $r$ r. and directs the spmy. The same movement exbausts the ar from the outer tube $\phi$ p. As soon as there is a vacumm in the outer tube, the thaid from the vial $S$ is forced upwards into it, and surround the inner tube. The continued pressure forces the flatd through the smali opening, and produces the epray. The thad is caried in the outer tube-the atr, which atomizes, in the inner tube. The opposite mechanism, i. e., the inner tube carrying the luid, and the outer the air, will produce the sathe effect. Instret. neents constructed accorting to the tatter theory have been made by the same artst, and work we 1 . These atomizers are made to duect the spray in different whys: upwads, downwards or straight fonvard. Either of these derections is produced by the end of the inner tube, which conveys the air. But in either case the instrumemt is only one prece of machinery. Fig. itepresents the straigh atomizer in operation; $p \rho p$ is the outer tube, $r$ the inner tube; $S$ the vial with the medicated thaid.

Kig. 2 is the und of an atomizer downwards for the larins, cte. : and Fig. 3 the chd of ats atomizer which spray upuards for the posterior nares.

These intruments posens many advamages over all the other patterns in use now. They are clean, aluas heep so, and they do not dicompose the solutions, produce a liner spray, thereby not irritating the parts, never need repairs, alway, keep in order, and are cheaper than other contritances. They are not patented.

## BIF.ICHING SPONGPS.

The folloning directions are given for bleaching sponges, and is wid not to injure the texture:

Having made the sponges free from sand and calcaroous matler by gently beating them, wash them in water, squecze as dry as possible, and then phace a fer at a time in a solution of fermangalatre of tohasaz, made by diwolving iso grains of the salt in five pims of sater, and proung a portion of the soluthon into a suitable glazed veseel. Let them remain a iew moments unal they have acequired a darh mahogany:brown color, when they are to be scuteczed by hatd to free them from the solution. They are then dropped, a few at a time, into a bleaching solution made as follows:

Hyporulphite of soda, 10 ounces; water, 68 ounces. Wheit disolved, add mariatic acid, 5 ounces.

This solution should be made a day or more before being wanted for uee, in order that the sulphar, which is precipitated by the addition of the acid, may be eavily separated This solution is poured off from the stuphur, and, if necessary, atraned through a piece of mushon into a glazed vessel. [This fortion of the process shoald be done in the open ar or under a hood, where the offensive s.apors of sulphurous acid are remored.] The sponges are allowed to semain in this solution for a few moments, occasionally squeczing them with the hand in order to allow the flund to thoroughiy permeate them, then squeeced out and washed in several waters to rid them of the sulphurous odors. After seseral washings they may, if necessary, be completely deodorized by a zery auas solution of likarbonate of soda (sky 100 grains in five pints of water), and then wahed through two or three more wate- to free it fron traces of alkati. [ Much caution shoutd be used in ustrg this atkaline solution lest it neutralize the bieaching effect of the previous solutions.] When the sponges are marly dyy monerse them in a solution of glycerine m water, of the strength of a half ounce of glycerine in the pint, squecze them by hand and let them dry in the air, but not exposed to deret sunhght. Thss will leave them beautifilly white and soil to 'the touch. Dragists' Circhar.



Dr. David Ferrier gives the following os the mere importunt whelutions, whik he hav arnved at from many ctrcmely aterenting and mothothe experiments made hy him on dillerent ammals in the haturatory of the West kulagg Iselum. Watetield --
4. The anterior fortions of the ecrebral hemisphese are the chic fentren of volurtary motionand the active rethatd maniti- tation of mellygence.
2. The mdividual consolutemsare efparate and distanct rentre: and in certain detinite group, of consolutions (to onme evient indicated by the receash he of Fritish atd littzis) and in correspond mig regons of not convoluted bratis, ate locahzed the eentre for the sarious movemense of the eye lids, the face, the momhth, the wr, the neck, the hand, fout, and tail. Striking defferenos corre. ponding with the batits of the animal ate to be onund in the diferentiation of the centre Thus the wentes ior the tun m dogs, the paw in cats, and the lips and mouth in rabbsts, are highly diterentated and pronombed.
3. The acton of the hemepheres is in zenemal cresed: biut certain mosements of the mouth. tongue, and neck, ate hitaterally co-ordmated from each cerebrat hemisghere.
4. The provimate cattses of the different epitep.
 charging le ions" of the ditterent centeres in the cerebral hemispheres. The alfection may be himited artificially to rine muste or group of masics, ormay be mate oo involve all the murles represented in the cerebral hemipheres. whit foaming at the mouth, biting of the tongte, and loss of consciousnes: When induced artificially In ammals, the affection as a rule first insades the muscles most in so'untary use, in strhm, harmons Wht the cliniral obectation of Dr Hughtugs lackson.

5 Choren is of the same mature as epilefos. dependent on momentary discharging lesion of the indundual rerebmal centres. In the reapect. Dr. Itughlings lackion's views are agan experi mentally confirned.
6. The corpora striata have crossed action, and are renires for the mascles of the opposite vide oi the body: Powerful irritation of one causes nignd plearoathotonos, the tlevon predominating over the extensors.
7. The optic thalamu, forniv, hipprecampu, major, and the conyohtuons grouped around it, lave no motor significatiom.
8. The optic bebes or corpora quadrgemina, besides being concerned with vision and the move ments of the ins, are centes for the extensor muscles of the head, trank, and legs. Irritation of these centres causes rigid opisthotonos.
9. The corchellom is the coordinating rentre for the mustes of the eychail. Fach saparite lolule (in robhits) is a distinet eentre for special altemions of the epte ase
to. (nn the emtegrity of these cemters alepends the maintemance of the expulatrum of the body.
 an equeptifirm afterion ot the cerebellar oculomotorial centres.
12. Thene revals cypain mam hitherto olvecure smptome of cerebral disease, and cmable us to localice with kreater rertainty muy forms of cerchal lesion.-Irrit. Mal. fournal, . D pril 20 , 1873.

## 



Hatmg gat looked oner the tramation of Dr Kusts artele on " Chrome Posonmg by Itydrate of Chloral wheh appars in the Pharmatathat Firurnat, I must sul In,s sorn to find no notice tahen of 11- dangerous effect when admamstered to pataent haboring under acute paimonary divases, whe as pheumoma, bronchites, and all diseaves whose tendency is to retard respimation I have, I regret to s3, seen not necescarily fatal clase of pmeumonis become hopeless atter un ordinary dose of tha death-ptrduang hobby-hore of motern medicine.

The firs case in which 1 used it was that of a stout, well-nourished man, of about 25 , who was vullermg from extreme asthma and msomma of pheumona. Ies effert on him was quate enough to warn me of it danders, fins wife and hmeelf tade the probuse on my next wot not to gise hmm an! more of that stuff, as it was sery near killing him He sad that a very short time atter taking the lust ath comemousness, and sutiered from a hund of tnghtfisl nightmate, his wife staung that he mas raving and muthering all night; when I anw him next moming he was in a state of complete preitration, ha powerfil constation atone branging him through.

The econd and last tate it was admuistered to a patient of mane by a inedical man of long standmg and large proettee, whom I met in consultathon, and whose antuputy carthed the day agaimst my comparatucely jetsemte ideas. It was about tight or ten day, after her continement, wheh had been a dangerons one, when she nas attacked whth phemmoma, and, aқans my wish, recersed at tiventy fite gran dose of chloral. the conecguence wh, what I bad expected, in a short ume after raking it she sunk into a state of low matterang delinum, from which she woke up with the death metles in the throat.
1 could laring plenty of endences to bear on the painful subject, but feel that what I have sand is
enough-to warn those who are beginming their
 of chloral is a deadly agent, jonerfful to do ith, and lemed. It was granted by the college at Oti, in almost, if not entirely; weless as a curative agent. ; 1320 .

To my senion I say yon are wamed, death. caused by such agents as rhional and chatotorm, I though it may not be as yet looked on as murder . by our fellow men. jet I belewe them to be so in ! Ilis cyes to whom nothing is hid.

I hope you will insert this pablic waming, which shoukd long ago hase come from sume able hand, and which 1 would not feel myedif unstited m sending for publication were I not anare that my opinions on the subject are held by some of the oblest men in the country. Mred. Pros and cir. iular.


## 

Two hundred and forty:one operations for onarian discases have been performed by Dr. W. I.. Atice.

Dinmescrantsi-A student, undergoing his exanimation, was asked what was the action of disinfectants. He replied: "They snell so hadiy that the people open the windows, and fresh air gets in."

It is stated that the costs of the recem hawsut to establich the chims of women to medical education at Edinburg University amount to $\$ 4 z 41$, and that those costs have been thrown on the lady students.

The catte plague has broken out afresh in kucsis. The Prissian (jovemment has forlideden the import and export of cattle or meat, as well as ail animal substances, eacept mik, buter, and cheese. across the infected frontier.

A medical paper has been started in Kingston, Ont., under the editorship of Dr. Neish. It is calted the "Medical Times," and is an cighr-page weekly shect. It is iswed at the low price of $\$ 2$ jer annum. s'e hope our enterprising confrére may not loce money by the experiment.

Chichona Growne in Inden-There are at present growing on the British Government plantations in Bengal, $2,394,799$ plants, cutengs, and seedlings of the vanows species of cinchona tree: $2,000,000$ belonging to the Cinchenta stacirubr, , and the remainder to five other species. Mr. George King, Supcrintendant of the Botameal Gardens, says: "It has modeed, been demonstmed that cinchona trees can be grown surcessfutty up to the age of about ten years, and that their bark is quite as rich in alkalords as that obtained from South American forests; but whether they will reach maturity remains to be seen."
 ar.-Dr. Mex. Marden (: A New and Succestul Hode of Treating Cancer') nas. "the arsemeat. matilage mone of areatment ts appleable to all ioms of cancer, cucept the eytic or collond, pro. sided they have not exrecded certain lumits. vaz., forr square inchers, and then not more than a fourth must lie atticked at once. The mode I uloght is as follow it thech pase of anemic is made scoording to the following formuia :
$R$.

> Mromion acid,
> Mucilage of bum acacia.

To be well mixed together and made into a thack paste, and spread over the surface. At the end of from forty-eight hours to three dyys, ponltices are to be applied to fisor the sloughing allay of the cancerous mass.

Coniw in ahe Treitment on Incinity. Dr. Damel H. Kitchen (.fm. Goum. Insanity, typril, s $\Omega_{73}$ ), in an corellent articte on thas subject, peaks of the valuable exteratents wath wha, typodermically adminivtered by Dr. I. W. Burman, of the West Kiding Lunatic Syhum. Twelve - asis are related in which this drug was surectstully given. His conclitions on ats action are as follows' ist. Mascular relanation. 2ad. Ihamen in proportion to dore 3 rd. Physological effect in proportion to pority of the axticle used. $\mathrm{p}^{\text {th }}$. The brain is not affected directly by conium. 5 th. pulse and temperature both redticed aiter a fun aose. Gth. A gentle perspration covers the whole hody as soon as the physiological effects are observed. $7^{\text {th }}$. No apprectable effect on any of the secretions. Sth. Quetucss lasts from two to four hours, and then disappears, leaving only a sense of lessened muscular energy. 9th. Conium, not acting on the brain, may safely be given in all febrile disenses. toth. Conium, when applied to the kin. catuses slight redness.

Action of ails. Interloniat. Mbexeke-- Thos. Buight, Jr, M I., Prof. of Anatony at the Medica! School oi Matme ( Ruton Med. Ev Surs. Fotr., May 1,1873 ), conclude that the action of the interostals durms ordinary ropiration is very slight, 1 moded they act othernise than as liganents. 3oth sets, at the upper part of the chest, tend to raice the nils. Dwing to the fixing or drawingdown of the loner rib, both sets th the fower part of the chest may tend to draw the ribs downward. by stdden contraction, drawing the ribs tozether, they are muscles of spmamodic expiration. Position, muscular acton, disease, deformit, and various slight and "ndefinabie causes, may modity the action of any of t..em.

## Ther Ganida macelt:

A Monthly Journal of Medimil and Surgical Scienco,
Istued Promptiy on the Firstiof cach Month.






 - $\mathrm{rr}_{\mathrm{A}}$ |ainl

## 

## KIINRGFMENT OF THE TOCRNAL.

Ss will be seen ly the sphearmace of the prenent finte, we have maceased the sife of the laviert to nowly double its former cupaty: This we hase been forced to do, owins to the amount of prensure on our adsertising upare, and the increased supply of onginal commumcatuons, many of which had to be held over from month to month. irom want of mom. We have adopred the style of the mont successfut britwh joumals, as othe one best adapled to our present necesition, we have abo done the in view of the prospect of beang able, voner or later, to bring out a semi-monthly or weekly edition. We do not feet abte to undertake the at present, and do not consider th wee to hamper our present revources in a wan attempt to do that which it has taken other and eeen mere successful joumalists yean to accomplish. We are bound, howeser, to maintain for the Cusima fancen that ponition which it hots already attained of bemp the beading medical journal m the Domimon, and to this end no pains or enpense will be spared. The Lise bit was projected an the interest of the general proicsion ol Canada, and it sall be our constamt aim to kerp it enturely tree from any taint of partality towards any part:cuhar local meteres whatsoever, and to make it truly cosmopolte in letter and in spisit. We believe thes is the ont bass upon which a medical journal can te successtutly conducted, and in order to remose esery semiblance of personality, we bave discontunted pubhnt: ng the nemes of editors anes o-editors. We hase ato largely increased the edtorial staft by the adduon of some of the most promnent medical men me the jrcfessinn, men whose age and epperience emi-
nently the them for the sork we hase in lund. We look forward, thefefore, sith butognt bopes and bright prespects in the future suterso of the jourtai, and truet that as in the gast we hall have the renewed contidence and rontinued support and woperation of the proferion of Camad.

## 

The meeting of the Branh Medeat Isonozation tately held in Lobdon, was by far the mait succerstitl gathering of the find which has ever tuhen phare cither in ancient or modern times. The waion Lusted four days $\left\{5^{\text {th }}\right.$, Gth, $7^{\text {th }}$ and Sth of August), and dung that time between two and three thousand rexistered their names as members and visitors. There wete aho preemt an unubally lange number of distingriished vistors from foreign countric: especially from France and Germany, among whom were Virchow, Langenbeck, Bardeleben, Kmadtcisch, Liebreich, DeMussy, Dieulatoy and many othen of equat celcbaty. The hovpuhtity display cal was on a trily magnticent seale. The metropoitan members proseded a fuble luncheon daily, tor all romers. This was held in King's Colleze, and was well attended. The Iord Mayor entertained the members at the Mamsion House, in 'is usual ymand style, and the Royat Collefe of Surgeons gave a mugnficent entertainment on the followang esening, at which unwards of 2,000 gen-themen-were prewent. The annual dinner of the Association, at whels the premier, the Right IIon. IV E. Gladstone, was present, was held in the Hall oi lamesin's Inn, and was attended by a large number of member. . Among the toasts at the dinner was that of Iler Majesty's ministers, proposed by Sir J Payet, who described what he considered the standird of an Engltsh minister. Mfr. Giladotone responded in his usual ctocitent style, assurng them that Sir J Paget's ideal was one that nuuld serve as a shandard tonard which he might am, and in turn propoced the Assuciation, nd pid a hugh compliment to the profersion, statheg that he had often been much indebted to the proievion in bin own petson, and that of all the scieaces of observation so cultuated in this age, medicine was the noblest. The dinher was a greal succes*, and the presence of the lotmier gave much satisfaction. Many private memhers had their houses futh, and sone gave large dimnerpartics. The

British Mfiemem，Galtery of hrts，and many other phaces of interest were thrown open to the visitors． The l．ondon brethren seemed detemined that notiong should be wanting on their part to make the week pass happiny．

The addresses and papers read were of a very interesting and instructive character，and were bistened to very attentively：some of the most important will appear in our nevt issue．The President＇s（Sir Wm．Fergtson）wis on the subject of water supply to large towns and citiov；a subject not evactly in his line．but which he treated with a good deal of shrewd common sense，although in a scientifte aspect a little defectise．He adrocited th abundance of water irrespective of purity； quantity being considered by him of more import－ ance than quality．The address on Medicine was delivered by Dr Parkes，of the Amy Medical School，in which he traced the progress of medi－ cine for the last thitry years，and was replete with valuable iniormation．The address on surgery uas by Prof．Wood，of King＇s College，in the course of which be toticled upon the sarious im－ provements in surgery，the antiseptic treatinent， drainage in wound，etc．，and conchaded by a relerence to his plan for the madial cure of hernia． The address on Phystolosy was by Dr．J．Burdon Sanderson，and was a masterly and scientitic exposition of the bearing of physiology upon medi－ cine．The addresses delivered before the varions sections of medicine，surger；，physiology，and state medicine，were aho very interesting and instructive． The interest in the proceedings was evidenced by the large antendanceat the mectings of sections， notwithetandiag the many mducements to spend the time in holiday making and vistmy objects of interest in the metropolis．

## THE：VIENNA MINTURE．

Anesthesia is a subject of very great importance， and one concerning which a good deal of distus－ bion has taken phace lately，especially regardus he relative safety of chlorstorn and ether．Sone hate advocated the exclusive use of ether，other． a minture of choroform and ether，whe many still prefer to take the risk of continuing the use of chloroform，and so the matter standsat present，no definite decition having been arrived at by the profession．This is a curcumstance very much to
be regectex．The administration of an anesthetir is always attended wath more or ke．s danger to the life of the patient，and the repronibhty attendm： its administation is alwass suhth as to cate con siderable anviety to the mind of the operator． This condition of aftiars ts not unprosed by the reesent state of medial opmion resarding the relative safety of these two agents．The Londen lancet in commenting upon a recent case m which a womm sought to recover damages from the Dubtin surgeons for the denth of her huthand under chloroform，sys，＂That as public ophion mas at present any medicat man，who may ter placed in＂ posthon stmitar to that of the detendants in this trial，nuns the risk of having witnesses arraigned aganst him who might state that the caphoyment of chloroform is unwarrantable，and that ether，as beng less dangerons，ぶ the only anesthetic which with our present knowledse one has a right to cmploy＂and suggets the propricty of registerm； all cases in which amesthes．is resoted to，as a means of judging of the relative merts of risut anesthetics．
With a vich of overcoming the danger of chic－ roform，some have adrised the use of a minture of chioroformand ether，called the Vienna matare，con－ tanms sis parts of cther to tho of chloroform． This miture was reported to have been used in Viema Sooo times－whthout a casualty．It has not proved so successint in other phace，as aports have been given at different times of death havins occurted from its use．In the only instance in which we witnessed a death from Inesthesa，the agent used was a mivare of chloroform and ether． These unfuomble restults were predteted by Dr． Snow at the time of its introduction．Ife contended that it nould be dangerons，and hisoppoition was based on the followng rearons：fither is more volatile than chlorotom，and will therefore exio． mate more mopidly，so that when they are com－ bued in whatever proportion，before the whole is evaporated，the hast portion will be rearly all chloroform．The consequence of the is that at the commencenemt of the mhaistion the rapor in－ spured is chetly cther，and towards the close nemb all $c^{\prime} \cdot$ roform，the powerful effect of which at this stage would be desistrous．The patuent wall in this way enperience the stronger pungency of the ether when it a moxt ubjectionable，and inhale the more powerful wayor at the contlusion when eqution is
must neconary. Syencer wedl, has also hately prenounced in somewhat simatar terms aguinst the the of the misture in hes ovarim operations, It is not a perfect ansethetic, beingirregular in its ettect, slow in its action, and not ennttended with thanger. It is to be hoped, therviore, that no athempt will be made to reintroduce its atse (as we hase heard syoken of ), becatise of the thattsfactory state of public opinion regardmg the relative safety of chlototorm and cther.

## TORONTO LYE AND IAR INFIRMARY.

This evecllent institution was entablished in May, ISG7, and for she years, endmy May, $\mathrm{B}_{73}$, there were $13{ }^{12}$ quor persons, from ditierem parts of the Province who recened gratuituts medical treatment for disenes of the eye and ear The number of pattents in attendance gradually increased from 104 the first sear to $\mathrm{j}^{\text {an }}$ the sith year. Many foor patients were qute blind, and if medical shall had not been clasitably entended to them, would now be hopetendy blind. In sone cases, when the father of a family had been so afficted, the whoie family woutd have been reducel to heipless panpensun, and made dependent upon public or prasate chanty for their mantenance, but for the relef afforded at this instimion. The Toronto Eye and Ear Intirmary atiords relicf to the poor of every part of the Province. It aho atüords valuable clinical adwantages in ophthalmic and aural surgery to medral students, which cumnt be obtaned in any other mstitution in the Pronnce. These stadents, as they settle in different prots of the country, carry the exper ence which they have sained at the Eye and liar Intimary into practuce, and thereby confer a public benefit.
A already stated, there is no charite for medica! treatment or medicine ; the only expense being the patuents board, whoh is charged at \$3 per week, each perion.
The members of the board oi management perform their habors without any remmeration.
The City Chamberlam, Mr. A. T. MeCord, is the l'tesident, Mr. A. Dredse, Vice-Preotdent; Mr. W. Mason, Secretary and Treasurer; and Messrs. Wim. Elliott, George Hague (Bank of ?oronto), Jom Melam, W. J. Alacdonnell, A. R. Mc.Master, J. H. Mason, F. J. Palmer, Ro jert Walker, and Robert Wike:s, Sly, are birectors.

The members of the medial staft are hemise ungetid This deparment is under the management of inr. A. M. Rosebrugh, of Toronto, who has had constemble experience in ophthalnat prartice. He is ably assisted by Drs. Reeve and Coleman; Dr. (ammiï acts as consultuge surgeon.
The lye and liar Intirmary is partly supported by voluntary contrbutions. All annual subscribers of one dollar a jear and upwards are members, and eatifed to vote at general meetings and ctec. tions. Any person subscribury and pasing at one titue fifty dollars is a member for hte, and entuled to the same privileges as annual subseribers.

At a recemt mecting of the Board of Management, Me. Froncis Hart and lis wife were unanimously appointed Supermtendent and Matron respectuely to the Intirany. Both hate had some expertence in this hend of work th years gone by. Mr. Hart prevonsly resded in Mashuka, and removed to foronto in December last. Ile was formerly connected wath the toronte and provinciat press. Mr. Hart is of a very checeffll and benevolem disposition, and will donbttess try to render all the comfort in his power to the poor atthcied sufterers committed to his charge.
. ll commanicatoms should be addressed to Mr. Mlatt. Superintendent, Box $12 \mathrm{G}, \mathrm{P}, 0$. , Toronto.

## CANADA MEDHCAL ASOOCLATLON.

The meeting of the Cimada Medical Assoctitton, a full rejort of the proceedmes of whath will be found in previous pages, was held in st. Johm, $N$. 33., commencing on the 6th ult, and contmang two days. There was a late attendance, espectally from Quebec and the Maratime Provinces. The profession of the city of St. Join recerved their medical brethren of the Dominton in a very hospitable mamer, and the mecung pased off most pleasantly. Some sery excellent papers. which we will be able to publish in our nevt issue, were read and crutened by the members present; and some merenting cases were brought before the .lssociation. We are glad to see so much interest manifested in this Awoctation, and hope to see a large meeting nent year at the Falls. A number of aentemen have been apponted to read papers at the next meeting, and we trust they witl all give a good account of themestes. It is such matters as these that oive sitality and interest to
the proceedings. It is to be regretted thas on fow representatives from Ontario were pricent It :s aho to be rexretted that the Ssowidtun did not select furonto or llamilton as the nevt plare of meeting, from which an weurion to the lath could have beet made one of the attrotions Wipresume, howerer, that the absente of any represettutive from cither of thene ctice was the reason oi this oversight. We trust that some elfort wall yet be made to have the nelt meeting in Tonomto

- We fear that the accommodation for a meeting of this kind at the Fiths, enpeciatly on the Camada side, widn not be atl that could be: deared.

Conche-Qumine.--This prepuration is heing largelyused instead of quinine, it is much cheaper, and in many instances much preferable to tha alkaloid. It consist of a comblination of all the alkaloids found in the bark puinine, cinchoma, quinidia., cinchonidia, ik, the whole of the actue febriftege and tonic principles of the bark being secured without the inert buky lignm, sum, Ne. The natural bark has alwass been found more efficient and prompt in its action than the separate akkaloids, and therefore this preparstion, whach is. in reality, the natural bark deprised onty of ats lignin gum and other mert and meonsemem matters, camot but be of the utmost value as a therapeatical agent.

Beming Glass Tubes.-If the ghass tube we desire to bend be tilled with athl, and each end stopped to prevent its escape, on heating over a Bunsen burner, it will be found that the tube may be quite doubled at deared, a perfect curve being produced. In the way we may promptly produce accurate bends of any deared sote in tubes of any bore without amy prenous skill il ghass working Obviously, the principle depends on a uniform distribution by the sand of the pressure exerted. A similar plan is resorted to by metat-norkers in bending tubes of lead.

Persocin_-1V. B. Lindsuy, Eas., M. D., graduate of Victoria College, Cobourg, has just it worthy to be considered as anaphonsm that an returned from Loonion, Eng, where he has been ${ }^{\text {i mfant }}$ is not danjerously it so long as a sheds prosecuting his studies tor the past year. IIe tears; and that, on the contrary, absence of weephately passed a most succesfut examination betore' ing mdicites a sescre discanc. He, however, the Royal College of Physicians, london, and 'dmat that evceptons may occur to this general obtained the license from that body

Shiot te Fkt of of Nimest. In one of our comutry papers is mentumed an instance of a lumb with tha haluess. Two were of the untat size and in their marrel position; the thard one was further back and about hatf the sace of one of the others Vetermary Surgison kugers, of that phates, coumined the hodney and futand at perfect in its formation, and it had codently fotformed the s.me function as the other tho. This freak of tature is most eatedordmary, and we question whether such a one was ever heard of tefore.

Chororory in ling Colic.aDr. Iatamic, of Montreal $\mathrm{F}^{2}$ Lution Madiath, has succeeded in the treament of lead colle after tie falure of other remedies by the apphication of chloroform to the abdomen He soak a prece of flannel in aboat two ounces of chlorofiom and lays it on the abdomen Over this, he places another prece of Homnel wrung out of hot water. He says at arrests the pan inctantly and permanently, a mald purgative only, being necessary to complete the cure.

Cold Bith m Rubematic Fent.k.-Dr. Sydney Kinger reports in the Pratittencr a case of theumatic ferer successfully treated by heans of cold baths ald the application of large-sized ice-bags. The patient was a young girl about twenty-two years of ase , the temperature was very high and the joints red and paintul, but under the abose treatment the temperature was som lonered, and great relief atiorded the patient.
(binvino-Emests.-Lmests may be produced by means of electricity when other means fail, or are mpractacable. It may be brought about by mitroducing one electrode into the upper part of the osophagts, and applying the other over the epprastric region. Dr. Fon relates a case m the Britsis M/d. F̛urnal, in wheh a chnld was brought to ham in an asphynated state frons cating pononous mashrooms. Ife apphed the current as above prescribed, and romting ensued i immediazely.

Pan in the Blabok or Pinte-A patiem complams of pan in the regon of the bladder or perineum. There is almost certainly chronic c) stiths. Mk whether be feels the pain before, during, or after pasing ume. If the pain is betore, it is because the mucots membrame is beoming unexsy in consequentec of distemsion. If the p, in iv durng and after pasimg water, and in the end of the pents, be is likely to have stone ; and epectatly aloo at the pan is macreaned by exerche It is almost pathognomonte of stone to have the pain in the thp of the penis. Chrouis prostatitis simulaten stone mure than any other disease. In both, the pain is at the lip of the penis.a-Brathsate.

Thanasad of Cincken Ohts. Dr. Me Grecs, in the Bhatsh - Lex. Four, says that he hav never found ang appheation so useful or se effectual ins such cases as hydrochlone acd. He has never known it fall in checking the disease at once, and in briaging on a most rapud and healthy action in the part. He apphes the acid to the uleer by means of a feather or sman camethair brush. The application does not cause much pain or suffermg to the hate patuent, as the gangrenow, spot is alnoost entrely whout feeling at this tume. If the ulcers are very numerous it would be ax well to apply the acid to only a few at a tume, or to use it in a dhluted fom as a wash or gargle.

Cartotic acti asid Selphae of Sod in Ssass-pox. - An artucle sas published some ume ago by Ir. lesssy, of Montreal, bringing the above most successful pian of treatment under the notice of the profession. Since then he has had several cases all contirmatory of the benefical action of this combination. He greses it in the proportion of one drop of carbolic acid to from 5 to 30 grs of the selphite ma drachnof glycerme. The cartholic actd is first dissolved in the glycerne, forming a carbolate of glycerine, and to this is added the sulphite of soda. It is deserving of a more extended trial.

Nonte-- ientiemen who persist in returning copies of the LaNcer without enclosing ther names must not contghain if the journal is still contmued 10 their address. It is mposstble for us to know from whom they come uniess the name is written on the copy or wrapper.

Qumine and Butare in Pieumonta. - Dr. Pagne in the Suthern Jlict. Recurd recommends large bliters to the ches:, and from 20 to 30 gran doses of quimine twite or thrice a thy in the treatment of pheumonia when it has reached the stage of hepatization. He" clams for this phan of treatheent, greater success than ts ustatly whaned by the ordinary methods. He gives a report of neveral very bad cases succernfully treated in this way, and mentions one case that was gren up by a nedical friend, that made a rapid recotery ater the application of the blister, and one dose of quinine.

Fekric Ahen an Purpuka-Ficric alum in powder in doses of 5 to 6 grains three or four times a day has been strongly recommended in the treatment of purpura hemorrhagica. Iron inas long been used in the treatment of this affection, and with as much success as any other remed; and this combination whech contams in addution, the astringent propertes of alum camot fall to be of scrvice in this discase.

Calibar bean in Tetandes.--We have lately obseried in our exchanges, several reports of cases in which Calabar bean has been succesfully used in the texatment of tetarus, adopathic and traumatic. The saturated tencture is commonty used; when by the monti in 5 drop doses cvery 3 hours, and hypodermicaliy one drop in solution every two hours It is suid by some to be the Hercules of the materia medica in trismus.

Marishurne's Chuler, Maxtere.-The followns combmation has been highly spoken of. a Chtoroform, Tinct. Opm, Tmat. Camphome, Sp . Ammon. Arom, a f 3 m , Ofi Cimam. gtt. wi, Creosut, gtt. wi, spt. Vim Gallici, $\boldsymbol{S}_{5} \mathrm{ss}$, M. Sibs. - Ten to twenty drops in a teappoonful of ace water elery five to thurty munutes, as regured. Useial in the premonitory diarthou.

Matkiculation Examinatons.-The following gentlemen passed successfully at the recent matriculation examination of tise College of Physicians and Surgeons of Ontario. The examenation was held as usual in the High School before Mr. McMarchy, the promeipal :--Mesirs II. A. Eberle, D. B. Fraser, D. Fraser, N. D. Richates, K. McWilliams, W. 'Tisdaic, Wm. II. Howey, and R. 'T. McTavish.

Aprointimine of comosirs- David Hegbic, of the town of hampton, Fsepuire, M.J., to be an associate coroner within and for the comaty of Peel. Frame is Gakley, of the village of Ilattsille, Esquire, M.1)., to be an associate coroner within and for the County of biord. James Henry, of the town of Orangeville, Espuire, M.I)., to be an associate coroner within and for the Comety of Simeoe. Alcaander Scott, of the village of Forent, Esquire, M.1)., to be an assen iate coroner within and for the County of Lambton. Alex. (iraham, Eisq., M.1)., of Newbury, associate coroner ior the County of Middlesen. Archihald Mevamer Rid del, of the City of Toronto, Espuire, M.S., to he an associate coroner within and for the County of lork.

Dr. Agnew, of Toronto, has been appointed professor of sanitary science in Victoria Cullege, 'Foronto. In. Hillary, of Toronto, has been ap, pointed to a pusition on the hospital staff of the 'Toronto (ieneral Huspital.

There is a good opening for a medical man in Phillipsville, Ont.; also, in the village of Atherles, near Lake Simcoe.

Death. -In Toronto, on the 2 ist Junc, Juseph Howson, M.I)., in the $45^{\text {th }}$ year of his age.

He was returning home from lorkville in the evening, and his horse, from some caluse, became ummanageable and ran into the side of the road, and the buggy striking against the sidewalk he was thrown out headforemost against the planks, and having a firm hold of the reins was dragged for some distance, his head striking againt some planks at a crossing. When picked up he was still breathing, but died a few minutes afterwards. His funeral which was largely attended, eqpecially by the members of the several socicties of which he was a member, took place on Wednesday: The Dr. was manaager of the Atlantic life In surance Company for this Province, and had not been in active practice for some time past. He leaves a wife and four children. He had several policies on his life amounting in all to dbout $\$ 3500$.

Surecrimers in Arrears. The present numher of the Iaveter has been sent to all our subscribers, old and new, including many who are and have been in arrears for some time past, and we beg leate to intimate that the journal will
poniticely be discontinued to those who neglect or disregard their ohlgations. Owing to the increfsed cyense inc uncd, we that insint on prompt remittance in future.

## Elowh dotiters.


 treatment of Nerwons and other diveases. By, Allan McIane Hamilton, M.1). : Physician to the New York state Hoppital for Diseases of the Newous System, etc. With homerous illustrations. New York: 1). Appleton A Co. Toronto: Willing 心 Willianom.
The above work consists of about 200 pages, and is an excedingly prutical tratise on the subject of electricity. The author sets out by describms fully the mechaninu of the various forms of batleries in common use, their mode of application, and the diseases for which eath form of electricity is adapted. The subject of electrolysis is also treated of, as well as galvmo-catutery, and in and appendix is given full directions, for the manarge ment, care and working of batteries, and strength of solutions used in the different kinds. It is really an admirable little book on the clinical uses of electricity, and will no doubt have a very evensive sale.
 and Cavair. By (g. F. Walton, M.I). Neve York: I). Appleton A Co. Toronto: Willing \& Williamson.
This work contains mush useful information on the choice of springs, character of the waters, the move of using them, bathing, Ac. The author粦 gives seliable analyses of the waters, and theire therapeutic value, so that physicians maty thereby le enabled to duvise their use ds intelligently and beneficially as they do other wathable alterative dyents. The work is much reeded, and will no doubt be found very useful.
 Pidtrity. By Jama, R. Icaming, Ňew York. A paper read by the author at the New York state Medical Society.

Conium in 1 he Thempment of Insonety: By 1). II. Kihlien, M.I)., Aost. Physician New lork State Lunatic Asylum, L'tica, N.Y'.


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[^1]:    - On Scarlet Fevce, Edin Med. Joumal, 1870

