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## Canada Lancet.

 a moNTHLI JOURNAL OF
## MEDIGAL AND SURGICAL SGIENCE.

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AUGUST, $\times 875$.
No. 12.
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A NEW REMEDY FOR DYSENTERY.
M WM, KERK, SURGEON, GALT.
(First polltiod in the Bilinsurgh Med. Journal. June, Ifioi)
Twelve years ago, an accidental circumstance led me to attempt an improvement in the treatment of dysertery. Commencing with camphor and henbane, added to opium, I experimented on every officinal narcotic, coming to the conclusion, that of these the most eficieient combination was one of opium, henbane, hemlock, stramonium, and digitalis. I had cause to be better satisfied with this than uith any previous combination; but from time to time failures or tardy success induced the conclusion that something was still want-ing,-that something if to be found at all, was therefore to be dis. covered in plants not yet admitted into the Pharmacopocias. After a long search, Cicuta maculata, Sium lineare, and Conio-selinums canadense, indigenous to the swamps and woods of Canada, sup. plied the deficiency better than any others I happened to try. Sium lineare supplanted hemlock. (Conium macuiatum), on account of the combination contairing the latter occasionally producing pain in the thowels and failing, while that wita Simn lineare gave relief; and
duicamara supplanted henbane, as experience showed it to be better adapted to act beneficially along with the other members of the combination. Its constituents, when the investigation was concluded were as follows:-four officinal, viц., opium, stramonium, dulcamara, digitalis ; three non-officinal, Sium lineare, Cicuta maculata, Conioselinum, canadense. All are more or less narcotic; and digitalis, dulcamara, and Sium lineare are also diuretic. So many are necessary twidently from each possessing some peculiarity in the way in which it affects the system : the combined effect of these peculiarities being required to combat the disease.

Without opium the combination is slightly aperient, improves appetite, promotes sleep, and, according to experience gained in dysentery and other diseases, heals ulceration of the mucous membrane. In dysentery, opium is necessary apparently to check the frequent motions of the bowels, the strictly curative power depending chiefly, if not altogether, on the other ingredients. In infants generally, and also in a few adults, digitalis does not act favourably. In such instances I have substituted squills with great benefit. Adults generally require the combination with digitalis; of a very few infants the same may be said; and to many adults the combination with digitalis, or that with squills, may be given indifferently. Excepting opium and squills, the part employed is the leaf. Digitalis and squills are combined in the proportion of half a part each,-all the otlers in tiat of one part. For infants, opium is reduced to a half-part. The usual dose to adults is six and a half graias, digitalis or squills being each half a grain, and all the others onf grain each.

Between five and six years were spent in determining the components. Beginning with three, I never afterwards, cither in adding or subtracting, changed more than one plant, till I had as fully as lay in my power ascertained the result of each change. In this manner I have experimented on thirty-two plants or their products. I have pulled down the combination, and built it up again, and thus done my best to ascertain the necessity for each component. For upwards of seven years the combination has been used with very great success; but as my own experience may be suspected of being hiassed, I shall confine myself to the reports of others.

Dr. Brown, of Berlin, Ont., had a very severe attack, of which he published an account in the Montreal Medical Chironicle for December, 885 .

Of this paper the following is a copy, slightly abridged:-"In August last I was seized with epidemic dysentery. The usual remedies were properly administered -opium, the quantity of which speedily rose to twenty-one and even twenty-four grains daily, together with mercury, acetate of lead, and ipecacuanha, but no amendment took place. I vomited incessantly, and, though tormented with thirst, could retain no fluid. In my case the effect of large doses of opium was prostrating and overpowering. I did not sleep, but could scarcely be said to be awake, except to the consciousness of severe pain, agonizing tenesmus, and frequent vomiting. I had been ten days ill, nature was sinking, collapse was to be feared, when Dr. Kerr visited me. He immediately gave three and a half grains, or half a grain of each of the seven ingredients." (The recipe is here given by Dr. B.)
${ }^{6}$ I was very restless from a sensation of sinking and severe pain. In half an hour, after dosing a few minutes, I became aware of a great change. I could lie quiet; the distressing tenesmus was less, pain in the body and limbs less severe, the sensation of sinking relieved, a glow of warmth was supplanting the cold of threatened collapee, and an inclination to sleep, not before experienced during my illness, was stealing over me. The first thought was amazement at the change, then a faint recollection of a new medicine crossed my mind, and I resigned myself to its influence. I was immediately asleep, and for an hour and a half had a comfortable and refreshing sleep, unaccompanied, comparatively speaking, with sensorial disturbance. When I awoke all the symptoms were relieved. Seven grains were given every six hours, but the quantity of digitalis being $t 00$ great, this drug was reduced from a full to a half proportion, making each dose six and a-half grains, which were given every four hours. ${ }^{1}$ I spent twenty-four hours almost wholly in sleep ; calls to rise were still frequent, but the tenesmus was less severe, and, though 1 retched a few times, vomiting ceased. In a few days appetite began to return."
"During twelve years' practice, I never in the treatment of dysentery met with a narcotic to be compared with Dr. Kerr's combination, in relieving general irritability, pain, and, above all, nausea and vomiting. It produces a wonderful degree of comfort, unat-

[^0]tended by sensorial disturbance. From thirty minutes after the first dose was taken my suffering was comparatively nothing. Little hope was entertained of any recovery previous to the first dose, but became sanguine before I had taken the third." ${ }^{2}$ Dr. Bingham, Dr. Brown's medical attendant, in a supplement, vouches for the accuracy of the narrative, and relates six confirmatory cases from his own experience.

Dr. Bingbam, supplied with medicine by me, treated successfully the sporadic cases whic h occurred in the following years. -In August, 1862, he, with 1)r. Bell, by this time his partner, appiied to me, making the following statement.--Dysentery had broken out epi demically in their locality, but not having any of my medicine. they had treated it with the usual remedies; a woman had died the preceding evening, her husband was dangerously ill, and other two were apparently dy ng. Furnished with a supply, they hastened to their patients. The husband just mentioned, though previously ill for five days, was relieved in less than an hour, and had a rapid recovery. Une of those believed to be dying recovered readily, though upwards of seventy years of age, the other died, time to administer a single dose only being afforded. During the remainder of the epidemic there was not a death, though, judging frum the severity of the attacks, six or seven would have proved fatal under ordinary treatment. In the autumn of 1863 , dysentery was again epidemic at Ayr, Ont., where Drs. Bell and Bingham resided. Without delay they applied to me for medicine, and treated successfully every case ; while the only other medical gentleman in the same village adhered to the ordinary treatment, and out of a smaller number of patients lost five by death.

Dr. Mackintosh, of Hamilton, Ont., has employed the combination in dysentery since 1861, and in all cases with success. From his notes I give the following account of the epidemic and generally severe character of the attacks :-
" 1864 , ${ }^{5}$ th fuly -- A child, four years of age, seizec two days ago, bloody stools every half hour, accompanied with vomiting and severe pain. Applied hut fomentations, and gave three grains of the squill combination with opium every four hours. These were speedily followed by relief; the child had a pretty good night, and on the rgth is reported quite well.

[^1]" ${ }^{1}$ th Fuly. - A girl in the same house, nine years of age, was seized during the night with severe dysentery. Applied hot fomen tations, and gave five grains of the digitalis combination with opium every three hours. Immediate relief followed, and next day she was convalescent. Six doses in all were given.
" $22 n d$ ' $7 u$ 'y.-A boy, seven years of age, seized yesterday, and now severely affected. Gave three grains every three hours, and by evening he was much relieved. Nine doses completed the cure.
" 6 th August. - A man, aged thirty, attacked during the night' with rigors and vomiting, followed by dysentery. In the morning seven grains were given every three hours. In two days he was quite well.
${ }^{12}$ th August.-A man, aged sixty-four; bloody motions every half-hour, with nausea. Same doses given as to last patient; next day almost well.
" ${ }_{5}{ }^{\text {th }}$ August.-A woman, aged fifty-six, during the night was attacked with severe dysentery. Same doses given. By evening was much better; and by the third day complained merely of weakness.
${ }^{1} 7^{\text {th }}$ August.- A woman, suddenly seized with very sev re dysentery, visited shortly after; she was then cold and faint, and stools passed without control. Gave seven grains of the digitalis combination, with one-fourth of a gram of morphia (instead of upium), every two hours. After the third dose relief was so great that murphia was altogether omitted. but seven grains of the other combiration were continued thrice a-day.
" roth August.-Almost well."
Dr. Philip, of Galt, late assistant-surgeon, H. M. 18th Regiment, has furnished me with the following statement: "Your remedy was administered by me in six severe, besides a number of slighter cases of dysentery during the autumn of $\mathbf{1 8 6 2}$. Relief was uniformly obtained after one or two doses, and recovery completed within a few days. One of the cases was characterized by profuse sanguineous discharge, and, occurring in a delicate female, would probably have proved fatal but for the timely administration of this medicine. In contrasting the success of treatment in these instances with the fruitless and uafortunate attempts made by myself and others at relief in the severe dysentery of the Crimea, it is impossible not to be struck with the readiness and efficacy of this remedy. Every
known system of treatment, i beleve, was tred there, and the medical history of the campaign shows with how hitte benefit. Many of the cases which in the Crimea ended fatally were not apparentiy of a more severe character than some of those wheth yielded rapidly to your medicine."

Dr. Mernit, who at the tume the following occurred was chnef of the Medical bepaztment of the Confederate Army of the Mississipp, thus writes to me --" in August, 1563 , when in charge of Camp Jackson, I came into possession of a guantity of your medicine for dysentery. The rapudty of reltef and of cure was exceedingly striking. The men were on their feet in a few days, and in the worst cases 1 did not give more than eight doses of siv grans each. A8y supply hasted ten days, and was admunstered to about sixty patients, only one of whom died. For some tume before I obtained the medicine the deaths ranged from one to three daly; and as soon as it was ail expended the mortality resumed the same rate."

A child of the Rev. Mr. Robb, Calabar, Western Aftica, in the latter part of Juty, 886 , was setced with dysentery: At this time the favourite treatment at the misston was large doses of ipecacuanha ; but the illness restated every prescription of Dr. Hewan, the medical attendant. By the maddle of August the child was so reduced, and death so impressed on the nsage, that recovery was regarded by all to be hopeless. At this juncture the parents recollected a packet of the combination which I had given to them. After the second dose the -hild awoke from a refieshing sleep, easy and tranquit, and the medicine being continued, secovery went on rapidly, without a single untoward symptom i second attack of dysentery, a few months afterwards, was stopped in a single day A native Afncan was cured of what threatened to be a severe illness by ten doses

Fifteen medtcal men besides myself have used this combination in dysentery, it has been given in the warm region of Califormia, amid the privations and discomforts of a camp in the hot summer of the Southern States, at sea on the Atlantic, in the tropical and pestilential clumate of Calabar, and there is a remarkable uniformity in the testimony of all Relief generally in an hour, restomation to health in a few days, and the great majority cured within a week A few cases were a little tedious, and a still smaller number lingered for three or four weeks; none lapsed into chronic dysentery ; and ons of about four to froc hundred patients, though several of the
attacks were very sesere, an severe as some of the reforters had erer witnessed, enly four died. One of these was a delicate child; the second, an infint on whom the medical attendaut had previously exhasted all the ordinary medicines, and the third and fourth have not been specially reported to me. I have been told of some instences, and a few have occurred in $m$ y oun practice, of that generally fatal sanety of dysentery characterized by profuse bloods dischatges. usually attended with severe pan, all of whom were cured without difficulty. The combination fails in chronic diarthea, powbly because this disease is usually unacrompanied by lesion of the mucous membmne. I have not seen or had reported to me any disagrecable etfect from this remedy, though, judging from the character of its constutuents, such is possible, were the dowes unreasomably lange. The meditinal power is certamly greatiy preceased by the coabinaton, but not the peisonings Relief speedy and great of pain, far sounder and more refreshing sleep than that from opium, and cessation of discharges, are the usual effect: The nearly miform success has not given either my corropondents or myself opportum ties of trying the treatment by large doves of tuecactanha.

In the course of my experience, several persons athicted with chronic dysentery have been restored to health, --some by the com. bination contaming opum, others by that wathout Ur. Ogden. lecturer or Materia Medica, Toronto, tells me of a case of acute dysentery where, from idooyncran, opum diadgreed. but which was specojily curcd by the combination, leaving out the drug.

Cases of cholera infantum bave been reported to me by medical friends as treated successfully by the combination contaming opum Of summer cholera 1 select the following on account of ats seventy A young man was seized during the night, and visted by Dr. Bing ham in the moming. At the tume he was volently cramped, skin cold and clammy, voice hushy, and pulse fecble. light grains of the combinatoon contanng oprum were given, from this tome he vomited no more, a glow of warmth as in Dr. Brown's case of dysentery) supplanted the cold of threatened collapse, and cramps rapidly abated in seventy, though all day he had muscular twitchngs Four more doses completed the cure. Summer cholera has been for some years a rare discase, but all treated by my medtal correspend ents or myself have readily recovered.

I may here mention, that I find I have not stated with sufficient clearness in my first paper that, in a very few adults, the digitalis combination altogether fails, and that with squills succeeds, and vice rersa in infants.

Dr. Mackintosh, of Hamilton, Ont., sends me the following cases:-
"No. 1. $12 t / \mathcal{F} \mathcal{U l}_{3}$. - in adult ; mild form of dysentery, very speedily relieved, and in three days cured. He then went to another part of the country, and about a month afterwards had a severe attack of the same disease, which, notwithstanding the assiduous use of Dover's powder, and starch and laudanum enemata, did not entirely cease for three weeks.
"Nos. 2, 3, 4, 5, and 6.-All in one family, between 22 nd and ${ }_{3}$ rst July.-No. 2. A delicate boy, 8 years of age, had been ill for nearly a week; strength much reduced; motions frequent and characteristic. Speedily relieved, and in about a week cured. Nos. 3 and 4 . Aged 6 and 4 years. Seen in the incipient stage. They were speedily relieved, and a few doses restored them to health. No. 5. The father, aged 50 . Taken ill on the 28 th July, when he was obliged to leave his workshop. Motions frequent and characteristic. The acute symptoms were relieved by the 3 rst, but, from intemperate habits, the disease remained in a chronic state for abou ${ }^{+}$ two weeks. No. 6. A daughter, aged 18 , who resided out of Hamilton, paid the family a visit, and next day was seized with dysentery in her own house. Cured by six doses.
"No. 7.-26th.-A woman, aged 35. Two days ago illness commenced ; symptoms somewhat severe. Medicine was given in the usual form, and by the 29 th she was quite well.
"No. 8.-27t/2.-Child, aged 30 months; motions frequent, bloody and characteristic. 3oth. Much relieved. In a few days cured.
"No. 9.-6th Augrust.- An adult, ill for two days; symptoms somewhat severe. Relief speedy and effectual. 15th. Cured.
"No. ro.-7th.--A woman, aged 49. Has for years been ailing with ulcers of the mouth and tongue, and severe dyspeptic symptoms. Two days ago attacked by severe dysentery. Sth. All the symptoms less severe, last night slept well, a comfort she had not enjoyed for two nights previously. 13th. Cured. Latterly the
medicine was given without opium, and she now states that her old ailments are much lessened, and expresses her conviction that the continued use of the medicine will restore her to health. Have not since seen her.
"No. II.-gth.-A child, aged two years. Has been ill all summer with diarrhoa, which has now become severe dysentery: he is very much reduced. Three grains of the squill combination to be given three times a-day. These mitigated all the symptoms, and at the end of a week he was so much improved that the medicine was discontinued. 28 th Oit. He is now a plump, healthy-looking child.
"No. 12.-10th.- d delicate woman, aged 27. Ill a day and a night. Relief speedy and permanent. 1ith. Cured.
"No. 13.-I4th.-A woman, aged 38 . For the last three or four days moderately ill, but much worse to-day. 17th. Considers herself well. No relapse.
"No. I4.-A child, aged 14 months. Moderately severe attack. cured in five days.
"No. 15-28th.-A child, aged 2 years. Very much the same as No. ir. Almost every remedy had been tried by the family physician. In a week, under the squill combination, the evacuations became natural. 3 rd Oct. Well.
"No. 16.—yth Sept.-A boy, 3 years of age. Relief speedy and permanent. 15th. Cured.
"No. 17.-Sth.-A woman aged 28. Ill for about a week. Several domestic remedies had been tried, but without alleviating the symptoms. Three doses of the digitalis combination gave great relief, and procured sleep. 12 th. Cured.
"No. 18.-14ih.-I never before saw a patient recover from so severe an attack as in the case I am now to relate. A man, aged 45, called at my house, stating that he had been ill for a day or two, and that he had got much worse this afternoon ; he hoped, however, by warmth and rest in bed, together with domestic remedies, that by next morning he would be better, and therefore declined medicine. 15th. At seven o'clock a.m. he sent for me, and on my arrival stated that he had been exceedingly ill all night, having been out of bed crery ten minutes, and every motion accompanied with excruciating pain and tenesmus. I directed six and a half grains of the digitalis combination to be given every two hours. In less than two hours,
that is before the second dose was taken, pain wis much diminished, although the frecquercy of the motions was still considerable. By the second day these were reduced to one every three or four houn, instead of esery two On the tirst night of my treatment, the patient slept well, but not on the second, and on the third, the motions having still a dysenteric charactir. and still occurring every three to four hours, he had delinum * and allisions, resembling definium tremens, bat there was no tremor of the tongue ur uther part of the body; the pupils were unifoun and rather dilated; the tongue somewhat furred and dry, and there was a tendency to cold sweats. On the whole. I am of opinion that this state was caused by the action of one or more components of the medicine, which was intermitted for a time; but it was three nights before sound sleep was obtained. The patient remembered his hallucinations, and at first could scarcely be persuaded that they wete unteal. Dysentery in the present case avumed a chronic form, the only mstance, in my experience, of this occurring with your medicene : and after a fair tral, I substituted a mixture of sulphates of quinme, copper, and morphin, with sood effect.
"No. in - 16 th. - A child, 2 years of age Chronic dysentery with vomiting. which last was removed by the first dose of the squill combination The dysenteric symptom pradually improved, and in a week he was well, and gaining tlesh
"No. 20.-1Sth. A woman, ased 40. Moderately severe case. In five days cured by the digitalis combination.
"No. 21.- 18th.- A woman, aged 37. Seventy of the symp. toms very much the same as the last, but the cure was protracted to fourteen days by errors in diet.
 a week Motions very frequent and bloody. Cured in ten days.
"No. $=3 .-15$ th.-A girl, aged 14 A severe case. All the symptoms were grodually relieved.
" During the epidemic a number of slighter case occurred. which do not require special notice
"I may state that all above two or three years were treated with the digitalis combination, eveept in one or two anstances, where it produced a depresing effect on the pulse, and all below these ages

[^2]nuth that with stuills. To adult, the dove was ustually sin or seven gasins three or four times a-day, according to the urgenc) of the symptoms; and in the greater number of instance, the total dosen did not eveced stx. In the cases under three years of age, the doses aried from one and a half to three grains the quantity of opum in this being onl) badi of that for adults). To the aduit who vecame delirious, not lese than sis graine of dgitalts, and twetve of the other ingredients, were given the the lirst twenty-four hatrs, and continucd to be gaven at thi rate for twelve hours longer, a quantaty in the some space of time far exceeding any 1 hate ever given
"In ali mstances, and 1 can now speak from an aperience of me cumman, the tanstion from what may bave been exeruciating suffering to comparathe ease was speeds, and usually accomplished by one or two dosen. Sleep, to wheh, from thear distress, some of them had been stmagers for several succesive days and neghes, came with relief to pain, and a tolerably sound nughts sleep has often been plasingly contrated wath a das of agony in conclusion, with the single exeeption of the man who became delirion, the medicine produced no disagrecable effect in any instance, the patenes beeng sensble only of teltef. I hate hicmse to say that all have recovered. .

Dr. Ogienh, l.cturer on Materia Medtca, Toronto, whtes."I ist autumn, two or thret of the most severe cases of dysentery not yielding to the ordmary treatment fast enough, if at all, I used your medicine with the utmost satisfaction to mysth, and in one ase, which two medical men had given up as hopeless, to the astonishment of some Boston pactittoners who happened to witness it ${ }^{\text {. }}$

This season dysentery was not epidemic an Galt, but the following severe sporndie case occurred to Dr. Philip: "A mulato, aged 54, a iabitual drunkard, had sufteretl under thiv dosease for a week. during which tume he was altogether negle:ted. Dr. $p$ found him dangerously ill ; fever was high, severe tormina, and tenesmus, constant calls to nise, and every quarter of an hour motions consiting of mucus and larise quantities of blood. Great relief after four doses; recovery gradual, though slow:"

Dr. Macintyre, of Hespeler, in this county, used the com bmation in dysentery in the autumbs of 1864 and 1865 . In the tormer of these years only a few cases, not of special importance, occurred ; but in 1865 his locality was usted by a severe epidemic. other practitioners losing mumerous patients He made inials of
chlorodyne, which were successful in the shghter cases, but not in the severe, these readily yielded to my combination, which Dr. M. soon came to use exclusively, and out ot about sisty cases, fifteen of which were severe, not one deed. Among the worst was the fottowing. -A man, of 05 years of age, had been ten days itl, attended by a.medical gentieman, who trusted chictly to optum and alum, the former being given to the extent of stateen grains daily. There was, hovever, no relief, and the medical opinion being that death would occur in about twelve hours, Dr. M. was sent for. At this time the motions were frequent, and apparently ot pare blood, pain was severe, accompanted by restiessness and much anxtety; the had searcely slept since the ulness commenced, weakness was so great that he could not be rased wathout danger of fanting, and the skin was cold and clammy, apparently justtiying an unfavourable pros nosis. Dr. M. gave eleven grans of the combmation, contaming one grain and three quarters of opum. In less than an hour the pattent sud that a great and bencficus change had come over hum, anxiety, resticseness, and pain had much dimumbed, and he.telt that recovery was not only possible, but probabte. Light hours elapsed before another dose was given, now followed by a long and sound sleep. He was able to go out of doors on the eighth day, mine doses in all having completed the cure. 1 may say; in a few words, that Dr. M.'s cases confirm what I have elsewhere stated respecting great and speedy rehef of pain, procurement ot sound and refreshing siecp instead of restlessness, and also of rapid recovery.

Dr. Urton, of Fergus, towards the close of a severe epidenuc, from which numerous deaths had occurred among his pattents, having heard of Dr. Macintyres " marvelious success, apphed to me, and subsequently treated five severe, and a somewhat. greater number of shght cases. There were no more deaths, and in every instance recovery was speedy,-two or three doses being usually sufficient to produce complete cessation of pain and tenesmus, and procure quet and refreshing slecp. In one case, the patuent being oo years of age, and several days ill, latterly with bloody mucous evacuations every halifhour, the tirst dose reheved lum from alt pantut and uneasy symptoms, and procured a comfortable steep, which he had not enjoyed for four or tive mights previously. The tatality of the discase, thus-stopped in Dr. Urton s practice, continued unabated in the hands of neighbouring practutioners.

Dr. Stille, Otsegs County, New York, apphed to me in conse quence of the prevalence of a serere cpidemic of dysenters, 'accompranied by frequent bloody cracuations, great prosteation of strengh, and cold clamm! perspiration, which had pruved wery fatal under all hinds of treatment." A month afterwards, he wntes, "that he had used my mediune with great satisfaction, that he had given it in a considerable number of tery bad cases, some even in catremts, and uniformly with success."

Dr. Eurrs, Union City, 3fichgan, siys that "when he first obsaned my medicine he had two patents with dysentery, brother and uster, aged respectively 12 and 13 Thes had been for several days under treatment, the evacuations fmucus miand with wonsiderable puantities of blood) were so fruyuent, and the tenesmus so severe, that they could with difficulty be retained in bed, at the satme tim they had violent fever the severity of the symptonis, and the inilure of other remedies, made the projrtosis zery unfavourable." Dr Eurrs immediatels gave cach three and a half grans, and directed the dose to be repeated every four hours. At his neat usit, twelve hours afterwards, he was "greatly surprised and pleased to find his tittle patients much relieved" The same reme'ly was continued at tirst every four, and by and-by every sia and eight hours. The gird in three, and the boy in four days were convalescent. Dr. Eurrs had no more cases, as the epidemic now ceased.

Dr Bell, of Ayr, Ont, sww, in consultation with Drs. Rounds and Patten, of Drumbo, a woman who had been confined about a week previously, and who, about thirty-six hours before his vistt, had teen seized with severe dysentery. The evacuations were nuco sunguinolent, and occurred at such short intervals, that she could carcely be retained in bed. Pain and tenesmus were intense, and 1 miting added to the distress. The pulse was exceedingly frequent, and on account of weakness could scarcely be numbered. She had been treated with upiums and calomel, without the slightest relief Seven grains of the digitalis combination were ammediately given, in an hour she was decidedly easier, and the pulbe less frequent. She was cured in a few days by seven doses, or forty-nunt grains in all. Another patient, a man, was seized with oucre dysentery. On sccount of the loaded state of his tonguc, calomel and castor-on were given, but without relief to the dysenteric symptoms. He had frequent muco-sanguinolent evacuations, accompanied with severe
pain, tenesmus, and vomutug. The first dose, seven grains, speedity gave relief, and eight doses in all, or fifty.six grams. completed the care.

Dr. Bingham, of dyr, Unt., who tas used the medicine for egignt years, a longer period than any other practitoner, thus writes me."I lost many patents with dysentery tefore 1 became acquainted with your remeds, but fron tiat tame tull last autumn I did not lose one. In the penod there were several eppdemics, and 1 treated many, not a tew o! whom thboured under the worst form of the disease- In the eariy part $0^{*}$ tast season dysentery predominated. but as attuma advanced, the character of the epndemic changed to summer cholera. finder a calomel and optun treatment, in the hands of others, these eases were ecrtamly tormadable, yet, ander your remedy, my patuents got mphdy better, and were soon hell. Out of about tifty or suty having dysentery or summer cholera treated last season, wo died, -one, an mant. had dssentery with convulsions, whom 1 hist saw about twelse hours before death, the other, an old woman, with summer choiera, in whose wise ! diandoned your needicine, because it was rejected by bomang. (It mught have been gisen in an enema.) In conclustun, 1 am jusutied in saying that m - contidence in your combination is uniounded, and, to me at least, severe eppedemace dy entery has long veased to ve a name of terror."

The successtud treathent ot so many severe caves of dysentety, and of severat of summer choiera, suggests the applicability of the medicine to a more terrible malady,--Astatuc cholera. Having made this suggestion, 1 must leave its determanation to thove who hase opportumtues of treatung that formidable discase.

Braehfat House, Galt, Ontario.

> MEHICAL, UUACKERY.
> H ID. ULARK, Y.D., PRINCETON

The word hypocrisy means a man with a mask on his tace. This disguise is of a negative as well as of a posituve natare. It makes the wearer appear what he is not, and hides what he is. Thes masquerade is $t(x)$ common in every-day life, and has become the rarp and noof of impulse and motive, in every grade of society.
and urder all eurcumances, until public fiith in man', integrity hav not that tonicity it would be desirable to witness, and which mas predominate in "the good time coming." Medical practice is not free from this tendency to deception, which mas be elarsified into two spectes of the one genus oi humbug ind deceit . 1. Deception through ignorance. 2. Wilful deluston. The first of these was prevalent in former ame, when astrology, ah hemy, necromancy and witcheraft had full sway user the my riads of humanity. The rela uonship between the stars and human destuny (including diseases) were dogmata, to deny which inluded bitter persecutions, ostra asm, and even martyrdom The almanacs of A.I). isis perpetuate this superstition on ther tute-pages, in the pheture of a nude, well developed man, whth the puretes of his bowels cut away, and all the signs of the Zodiac drawn in peculiar and particular relationship to different ${ }_{\text {jarts }}$ of hus body l.ally, "a medicine man" of 16.47 , says of these symbols, in conjunction with man, "There is nothing appertaining to the life of man in this world, which in one way or other hath not relations to the twelic houses of hearen, and as the twelve stgns are approprate to the particular members of man body, so also do the twelis houses represent not onels, but several parts of man, but lus actoons, quality of life and living, and the cunosity and judgatent of unr furefathers in astrologs were such as they have allotted to every house a particular signification, and so distanguished human accidnts throughout the whole : velve houses."

This figure of humanit, and its various and grotesque surround mgs of anunatc and inanimatc creations, had its origin in Egypt, be longing to its ritual, as found un the papyr of the land of the Pyramids Even the R, used in prescriptions to this hour, and wnteen with a dash across one of its legs, being supposed to be the initial letter of "recipe," is only the astronomical sign of Jupiter-2t slightly changed in shape. The lamatic is still thought to be periodically affected oy the moon, and the word atself perpetuates the ernor. The alchemists sought for many centuries to tind out "the elixir of life," or to discover "the philosophers stone," in which was immortality, and in the meantime recommended the greatest abominations as remedies and cures for "all the discases flesh is heir to"-from mummies' dust to dried toad from pickied spider to the fluid extract of bug-and from suake posson to flavored pus. Paracelsus has left to posterity a valuable ointment with which to anoint, not
the wound, but the instrument inflicting it - "Take of moss grown on the head of a thicf who has leen hanged and left in the air, of real mumm, of human blood still warm, each one ounce, of himan suct two ounces, of tinsed oil and turpentinc three ounces Mix well, and anoint the sword or other instrument with it" Kircher, of the last ceatury, had an ingenious and novel, if not successful nay, of redacing hemia The hind of rupture was of secondary consideration. He applied a poultice of iron filings autside, oppo site the part affectel, and gave to the afflicted, internally, ground on granuated magnetic iron, a scruple every two hours The modu, operindi was supposed to be, that when these metallic ingredients came near to each other, the magnetic metal drew the hernia inwards, while the other was applied so as to pull it vertically, or Laterally, as might be deemed necessary, and thus a cure wan effected. Sir Kenelm Digby, secretary to Charles I, tells us hom much faith that gay king had in so-called "Sympathetic Powders," and how efficacious they were as cures and antidotes These pow ders were not taken as medicine, nor applied to parts affected, but to the blood of wounds, or to the evcretions of patients, and by a sort of spiritual reflex influence, the sich recovered 1 ord Bacon. in his "Natural History," testifies to their power in this way, so that it seems great men have a weakness in hobby-riding, as well as many a poor son of Asculapits the potency of charms of all kinds-of the laying on of hands of the cure of eruptive fevers in wroppings of scarlet cloth of the cure of lung disease by eating the lungs of foses and other long-winded mimals of swatlowing gold In its native state, and expecting this "aurum potabile" to act as a prophylactic against evit spints, of equal absurdities, whose name is legion, are all evidences of the credulity of the physicians and people of "one hundred years ago" Then, we had the poor victims of somnambulism, epilepsy, tance waking and trance-sleep ing, sho thought themselves possessed of the devil were believed as being such by others -were anathematized and graciously put to death, after being put to the proof by medical and judicial test, such as would put to the blush chinugeons and chief justices of w-day, and make humanity shudder to contemplate in the blaze of knowledge of this wondrous age. Mesmer had much medical truth, as a substratum on which to build the efficacr of his rubbings, frictions and maniputations, and although mesmerism is surrounded,
even at the present time, by many absurdities. yet magnetic. galvanic or electric mflucace is potent tor good or evil to humanity, and this subte flud for rather, let me say, this something,) may not only be the connectung link between soul and vody-the tertum quat of phitosophers-bit an all-pervading, mentertal substance, whech is an indispensabie conduon of all existences, except the First Great Cause of all. Chemeal aitmity, coheston, grovitation, cell-bulding and setection of plants, the assumulation ot ammals, branal molecular action consequent un thought, and the mights influence which binds the planets as they roll "to the music of the spheres in the King's highway, with unerring exactutude, has many phases in its mamfestations, but as, in itself, "one and indivisible.' The intumate relationshup existing between mind and body-between the ego and non-ego-in thought, vohtion, emotion, passion and destre depends, in their dual, or rather treexistent relations, at-least in our mundane state, on its magic power; yet this potency has, from early ages, been made the tool of charlatan, alchemist and slippery mposter. We know that hight, heat, notion and electnctity are correlative ferces, the one producing the other, and only being changed in phenomena and intensty. I need not say that all these agencies are now, and will be to a greater extent in the future, most valuable auxthates in the practice of therapeutucs. We know not what this multuorm substance is, but we perceive its workings around us, and we conceive ts active nature in sensations and $\operatorname{cog}$ ntions, in every acknowiedgment of perceptive consciousness. This field is only partially explored. In it is a " inlderness of harmony" which no human zoyageurs have been able to reach with human intellect, and which must be reached before the healing an can nise to an mductive science. So far, ignorance has, by the widest hypothests, used its mantestations to delude the unvary, and to "play fantastic tncks" on the credulous and unguarded public; but the researches of giant minds are reaching beyond the contmes of "this pent-up Unca, and some day the world will be startied at the strange news from thas far country.
so far we have learned that all such agents are to be used wath caution and pradence, seemg how hitte we know of their operations as curative instmments. Ihe spectahist may use them to astound his patuents, or the ignorant may empioy them, if he knows not what che to do, and feels that he must appear to endeavor to alleviate
the distressed; but our duty is to "read, Iearn, and mwardly digest" all the researches of men of stience, until we find a mure excel lent was:"

Allow me here to reter to the abomanate and doreputable practice of parading our art or attamments betore the palla, or allowing it to be done with our consent, as in patent mudune advertising, or in the publishing of pamphtets and books full of seltprase.
" Every city, town and whage swarms "th ignorant pretenders to medical skill.

- It has become quate tashonable among the fraternaty to bet nut a book having reference to special diseases.
- As many of the enpurics who protess to write these bouks can scarcely wnte therr own name--nuch tess compose a grammathal or metaphystcal arttete-they usualty empluy sume heterary scrilliler to get up a volume to order.
"These works are of the most incongrious, mmural and wishy washy character, save when they are prated bodity from the writings of some educated physician.
" Some of these individuals assume the names of distingushed men; others use the cures of reputable practuoners as therr own. For instance, see ho:v many guse Lallemands reports of cases. verhitun at litcratim, as cures effected by themselves.
"The man who advertises as 'the Retired Clergyman is no clergyman at att; the ' Fellow Sutierer' is an old dodge revived, the Humanitanan 'Association is simply an mdividual who knows as much about medicine as he does about bansert. All are uneducated charlatans, and those who are led to beheve their assertions will be terribly deceived."

The press is a good medium for such a display, and to those who are m the habit of reading the newspapers from all parts of the Jomimon, it is astounding to sec how much of it is done, and how disgusting it appears to all but the hero of the hour, and should to him were he not pachydermatous.

Iet me introduce an example. The editor ot the Quotsville "Tooting Horn," had the pleasure ot being present at a splendid surgical operation performed by Dr. Uctavius Cxesar, on an afficted patient, and which proved a complete success. The surgery conssted of the exciston of a part. of the normal but inconvenient
growth of the horn like anclofe of the great toe. The learned sutentific gentleman commenced by makitg an incision into the nuth-whest angle of said outgrowth," be the same more or less," and
 partr. The amputated section loeng convaluountex on its edges and sides. stange to say. thas uperation. was dentetous! performed without the luss of a drup of bluod. We wanot say which to ad mure most, the endurance of the pattent across whose firmly compressed lips, nu manar of whitam, of selamation of pain passed during the trying ordeal, or the skill of the surgeon in bringang such a dangervus and delimite unctation to su stucessful an bsue. The paring of a lig toe nall is an historacal event in the annals of surgery. Lexehanges pheas cuple ind send ther accounts tu Bo: 1037, Quatsallic for payment. Huri is anouther rara az\% of the same tluch, wath only the pan feathers on to unmask the real genus of a brood of cackling bipeds, prolific in incubation, in other gards beotho dat of Barman, Magraum Donum, Lay., M.D., ot Demerara Colleghat Insutute, and medical, astrunumical, and hygienic Receptaculum ior the training of gmaduates over the Pons Asinuran of suence, art and nediane, respectfully begs to inform the priblic that he has commenced the practace of his protession in Hardscrabble His trevous expenence in the multafarions depart ments of his protession fot nearly have a century, his untorm success, has thurungh duquantume with all the systems of medicins in the world, his willugigess to adopt eather, of all, to sut vho patients, his special and uhaphe treament of diseases in all parts of the hubain system, whather clarume or detite, being learned from the greatest medical batans in Christendum, as well as from the abon gues, after a robdence among them of ten years, his knowledge of all recent mechamal uphomes, remedses and tests to hydra headul afflictions of humanuty, his urbanits of manners, politeness, suavity, and gentleness prodice salutary effects upon the most nervous fe. mules, and his arden: desire from the welling depths of his heart to benetit his fellow-men, independent of all pecumars considerations has been the am stad object of has life. Medicinc, advice, and attendance to the poor free " Special attention given to diseases of the spleen, now raging as an epidemic. The patronage of an intell even public is respectfulty solicited.

This may be said to be a burlesyue on some ardent and erring
brother of a noble profesum. To some extent it ince, but our pres teems with such evpriences of nauseating laudaton. In Ontario to. day, can be found graduates of our medimal schools, who say wrtually to jutients and ther intends. in domeste climes, that rex., " miikley w a discase, in which milk goes into the vemn, and if they were opened, the lacteal thuid woutd pour out," or "that scorbutec ghands contan cheese, from the pateent drnking too much malk of a had qualty;' or " that coagulated blooxin part of the liver somited, when ejected from the stomach' or "that the lungs are in a lode may, bat the "hyhts' are sound as a bell or "that a blach cat's skin with a "white tip to its tail to a sure cure ior divers inthammations, and is dong good, if it has a putnd smell, atter lying against a hot skin for ten or twelve hours," or "that tying woolen strings around the thumbs and too will stop prost-parturient hemorrhages." These, and dozens of other catch-penny phrares, and absurditiec are current with the same carmark and brand of duplicty, cumung and quackery. I dare not say these uterances are those of ignorance, or hypocnsy, or deception, for these mari are legally qualified to instruct and enigghten, in the healing art, the ignobile'zulizs, and are they not "all honour. akle men?" No polite name can be found to stugmatue my abhorrense, condemnation, and contempt of such juggiery, and unmengation nonsense in the practice of our profession.

Another species of quackery is that of being uitruthfil to our patients. It is sald that "speech is sifver, but sulence is gold." To magnify a disease to our patients, beyond what we know it to exist, in order to procure credit for miracles in almost restoring the dead, is falschood. To hold in terroren over the heads of the afflicted, diseases whose names are legion, when, it may be, we are ether ignorant of what is the matter, or know that one disease is the central and exciting cause or occasion of myriad signs and symptoms. is not honest To promise a complete panacea for all ills absolutely, except 1 m regard to the few specifics of our ande mectom, is an tgins fatuho, which "leads to bewidder and dazzles to blind." To pronounce a case desperate from imperfect knowledge. or "malice aforcthought," or as capital to speculate on, that if healed by the recuperative powers of nature, or in conjuncton with approyniate remedies, in order that "all hail! great son of Asculapius ! may echo and re-echo over every hill. and in every valley of a country stde, 15 cruelty to the sufferer, and arrant hum-
bug in the prognosticator. At the same ame, let us be honest and haithful to the dying, not holdung out any false hope, until they hunch away. We nould ask it for ounsives, so let us not in that trying hour, withhold candour of speech from othens, untul those who look out of uindows are darkened. the golden bowl ts broken, and a spirit is surprised into eternity. Our aimr should be to render a leal and true coniession in regard to thestate of those whom Providence has doomed to tie. and whe read in every hneament of the phyvician's sace, and in every accent which drops from his lips hope or decpar. "While there is life there is hope," passes for an aphorism, but to meny it is "a cunmingly devised able," and proves in too many anstances a delusion and a saare. 1 am well avare that medical men are not perfection. but the golden rule is as applacable in our protession as in all other legumate occupations. The puble ts far trom bearg grateful to ats best benefactors, but an approving conscience is never ankind. We ate appealed to with great fervor when danger is near. and a strong affection is apparent when discase, or th may be death, is tugging at the heart-strings, but when rosy health returns, in many cases sarcasm, trony, and often bitter invective take the place of endearing epithets and words of eternal finendship, especially when bitts are presented. Enricus Cordus, who died A. D 1535 , doubtiess told his own experience, as well ar that of his apostolic succession, in the healing art :

* Tres medicus factes hatet. unam quando ragatur, Angelicam, mox est, cum guvat, ipse deus. Post abo curato, puscit sua prucmia, morbo, Horridus apparet, terribilisque Sathan."
(" Three faces wears the doctor: when first sought, An angel's-and a tiod's, the cure half wrought, But, when that cure complete, he seeks his fee,
The devil then looks less terrible than he.")
Pope sang in the same strain, although he was not one of the brotherhood:
> " God and the doctor vie alike adore, But only when in danger, not beforc, The danger o'er, both are alike requited, God is forgotten, and the doctor slighted."

Garth; cutting epigram may be harfed at our heads and heart; after we have saved from misery sotne shrivelled soul (giving the atrophied object the benefit of a doubt), and restored his careass in health and strength. against the well-being of socety -
"Lake a port skuller, one physcaan phes.
And all hes art and all hus shill he tric-
But two physician, like a pair of oars.
Conduct you faster to the Stygian thorm

At the same tume il $\begin{gathered}\text { well to be so pallstaking, dihgent, and }\end{gathered}$ cheerful in the practice of our profeston, as to show that we love it for its own sake, in spite of all obloquy and undeserving reproach. An elongated vision-a profusion of tears and groans-an ominous shake of the head-a sumbticent shrug of the shoulder a recital of the signs and symptoms of other-" iust like you, my dear str. and they died "-are not assunng tokens to the nervous, nor fortifying to critical cases. Cheerfulnes- is a diftusible stmulant that will traverse nooks and cramies ot soul, spirit and bods, where remedia! substance never reached, and a radant coumenance is a tome to the weak, despondent, and helpless. In this conservative age of medicine, when sanitary regulations, detetics, and expectancy so largels prevail in the practuce of medicme and surgery, when the test sube, the nucroscope, thermometer, and the sphygmograph, are so indis pensable to diagnosis, doubtless soon to be followed by the wonders of the searching spectroscope, we often lose sight of the personal mfluence of the cheerful practuoner for weal, and the despondent, timid, vacillating, lugubnous attendant for woe Faith in a doctor, no larger than a gie in of mustard seed, will often, through pschycological mfuence. work maryels in bmang up the system, through unbounded confidence and mspirmg potent hope The "blues" in physicians do senously, in the aggregate, affect the statistics of mortality, but a glad countenance is a neh vemison to the downcast and afficted. I know physicians whose jolly, smiling, gladsome faces would do me more good than all the boluses of others, even if
"For physic and farces, their equal there scarce is
Their farces are physic, their phyal of farce is"
Finally, let us be kind to each other If we cannot agree, let us maintain a strict neutrality, and may "our bugles sing truce."

We have too many enemics to wage war against in selfdefence. "wathout the camp," mstead of being lihe the histonc Kilkenny eats found duvouring one another. It is not an indispensabic colt dition of our noble proticsion to indulge in heart-burnings, bickerings, envics, and jealoustes: tor, in the arena of conthet with dis. ease and death, we bave room envugh in this great batte-field of life to test all our fowers in honorabile sympathetic risalry "without tear and without reproach." These ate my Eecble sentuments, con stetions and utterances, I hope smeerely ofven, for " 1 an in a place and position where I an demanderl of consclence to speak the enuth. the truth, therefores spead I . impugn it whowo listeth.'

## THF ADMANSTKIION GF GHLOROFURM

##  EAR INFIRV (R))

In a paper enteted " Restscitation m Apharent Death from Chloroform," (contanced in the June No. of the Lantet') n is remarked, " very many of the coses of accident from chloroform anse from the haphazard manuer in which the anxsthetic is admunstered." Durong the past year, I have admmostered chloroform at least to fiftr patients according to a method ongenated by Dr. A. M. Rosebrugh, sen. surgeon Toronto Eye Infirmary, and believing to to possess many advantages over and to be more sate than the usual methods. I propose to constder the effects of chloroform, and subjects connected with its admumistration, in order to extmate the affirmed advantages claimed for Dr. Rosebrugh's method. Chlorotorm gradually admmistered, at first like alcohol and most narconcs, stmulates, the pulse is quackened and more forcible, then the functions of the nervous centres are suspended, the broun loses the power of receivng sensatuons and exetting voluntary motion; and there is loss of perception, thought and consciousness. Soon the functions of the cerebro-spinal axis are abolished, the voluntary muscles are relaxed, and not capable of reffex action.

The Royai Med. and Chururg. Society, by experiments upon animals, determined that "dilute chloroform vapour ( 5 per cent. or less) blown upon the fauces produced very little inconvenience, and
the animal contunued to breathe in a natural manner, but if concentrated vapour be suddenly admunstered, a spasm of the tauces is induced: atenwards when the anmal has inspared, the phenomema of asphyxia are fer a tume awor nated whth thove of chloroform ponsoning.

It is beheved that ancenthetice, as carbone aud, ether and -hloroform, act by suspending the due - yygenation of the blood.

In a case of tracture of the sheti athen eblorvorm produced its futh effect of narcotsm, the brann wos seen to be remarhably pale, and whenever the anmethets influene.e beysen to subside, the surtate of the bram became flond.

The pathe me comptete anethesat th redued to its normal tre - puency.

Motme of 1thati--According to itr. Ruchardon, there are four modes of death. The first he calls Symupat aftesia in which death is very rapid, commenong withon the manute diter the com mencement of andsiation. Kespmation is suspendad, thate is an accumalation ot carbonic athe in the bluod, irritation of the vabus and artest (rom the irritation) of the action of the heart.
and. Jeath trom eplepuform syneope, or musculat exumbilty. It occuss dunng thefngid stage. Att through the buty there is evi-deni- atforded, on the attenal side of the curculation, of intense arteral contiaction.
jud. I aralysis of the heart and muscular system, trom the slow and contunued actuon of the narcouc. Death ts preceded by an intermittent pulse-

4th. Depression trom chloroturm and surgeal shuih, paralysing both the pneumogastric and sympathetic.

Cavise or Dearh.-Dr. Richardson says, " I ater that an every case of death trom chloroform, the cause oi death is excitatiori, ether of the motor or of the contruiling acrous mechanisra of the heart. Itr. sansom remarhs, "the danger of chlurufurm resedes in the fact that in strong doses it is a direct cardias dejressant, and paralysis of the heart is the usual turn of death arom chlurviorm in man.' Lister mantains that chlurofum kills unly in une way, sit. by paralysing the muscles of aespiration."

Per Cent uf Fatal, Canes-Mib. syme gave chluroform in 5000 cases without a death resultung, and sir J. Simpsun quite as frequently, with a like fortunate resuit. Ur. Snow used his infaler
in $\ddagger 000$ cases, oi which only one wav fatal, and that seemed to be independent of the chluroform. Lis to shein $_{1}$ no ware of death from chlorotorn had exearred durng nune surs, ether in the Edinburgh or Calaskow Intimary, two of the largest surgical Houpitals in Grat Britain, and it is very intereating to note the conditions of the wo successul practue calted lay Prol. Lester. In buth these institutions a tolded tonel wh which the whathetin liguid in poured, un meavared and unsumet. is sull the un't suparitus cmpluyed in the adminetration. fectimanarg cammation of the hourt is neser thought of, ated durats the anlathaun the pulse as entirely disregard ed, but veglant attention is hept upon the respration, and in case of the obstructun, firm trat tun thun the lutgre is promptly resorted to. In $\mathbf{7} 7,000$ admmistrations in the Englinh hospitals there was only one death. Is an unfurtunate contrast with the above, I saw durmg the witter of 187 , thru du.th) during the administra non of chlurofurm in 'the Lundun Hospital."
to death has encurted in a pauent ander 5 years of age, but the number of admunstrationis undur dat dit has anduiltedty been much less than above tt.

Danger of Chareurusy. In ioy wases of death, the commit
 at which death occurred. Cunameatang to inhals, ic. Deiore full effiect of chloroform, 50 . Daring full cffect, 52 .
ligures go to show that the fatality in femades and the debili tated, is less than in males, and the strung.

The average amount of chloroform used in 37 fatal cases was seventecn drachms. In fire woss the amount wa, balf a drachm.

Ir. Snow trom experments apon animais, onsulered it dan gerous for the buman subject to breathe murs ithan 5 pet cent of the valruar ot chluruform. Messrs. Iallemund Fertmand Duroy, and that though mawmifers win teman in an anosplicic of 4 par - ent. for a constder.ble tume, thes do rapedly in an atmusphere of 8 per cent. It has been dscernataed that from a hourdkerchief, one may breathe an atmusphere contanum $12 \mathrm{p}^{\mathrm{er}}$ cosit, which accurding to the above, would be very tlangerous.

Dr. Anstic gives an account of 21 wises, in which he saw dan gerous symptoms in the cuurse of chlulufurm admanistration in 358 it was given on lint. In 2200 an inhater was employed In
the tormer, one in 53 evinced signs of danger. In the latter where due dilution was provided for the proportion was only one to $44^{\circ}$.

The chloroform Committe report - "Faperments upon the tower animals equally with observations on man, prove that there is but a narrow limit between that strength in wheh the vapour may be safely inhaled, and that which te likely to produce alarming symp. toms if not death,"-and that it is as desirable to masure the strength of the sapour, as to "eigh the dose of a medicine administered by the mouth "In animals the symptoms have been induced safely, with s fulty diluted vapour" A proportion of 5 per cent. of vapour is fatal to animal hife. Ir Sansom, Dr. Anstic and the chloroform committee gnve $31 / 2$ per cent. as the proporton, and $41 / 2$ as the maximum which can sfoly be respired.

That the system wall bear a larger dose of chloroform if thes gradually given, seems evident from an experiment of M. Claude Bernard, since the effects of carbonic acid and chlorofonm are similar. A sparrow left in a bell ghass, to breathe the sime aurjover and over, will live for three hours, but, if at the close of the second hour, a fresh sparron be introduced, a will expre immediately.

Conmitos of latien - - By some it is thought chloroform by promoting shock durng operations is a source of sife $\cdot y$ in heart diseive. In case of apparently well marked stgns of fatty heart, perhaps it would be betier not to administer chloroform eacept for the major operations in which case the freedom from shoik might more than counterbalance the depressing efiects of the nacotic. Dr. Squarey cites the case of a woman between 60 and $i c$, to whom chloroform was administered, her foot was removed, she died a fen deys after from the effects of the operation, the heart was found very tatty, the walls thinned, left pleura half full of pus, yet she took the chloroform well for half an hoar.

Dr. Rachardion says he knows " of only one condition of the body especiaily dangerous for chleroform, this is a weakened and dillated right site of the heart." Many deaths have occurred to hand drinkers whith may be due to the fatty heart of the intemperate. "In urxmia and pyemia, and in severe shock to the nervous system, it should be withheid" "and in hysteria more than usual care should be used."

Sansom considen acute hyperema of the lung,-the only discased condtion of the lang in which shoroform siould not be given.

Shoss of D.nger. - Sansom divides them into four chasses

1. Sigus of acden cessation of the heart's acton. These are most frequent. The pulse suddenly stops, or it fint flickers and then stops. or a sudden pailor of the face and lips is first observed. In these cases there is seen to be no emharmsument of respiration. It often contuntes after the pulse has ceased.

Il. Sign of muscular cictement. Earty in the inhaiation, the pattent has straggled and risen up, and has fillen bach dead, or the muscular contortions occurred when thers was complete insensibility. lavehty of the face is catsed by the suspension of the action of the respimitory muscles.

1II. Signs of embarmesod reopuration The respration may be haborious, irregular or stertorous.
IV. Sgens it smmultancous arrest of resurution and bezre's attoon. in inspmation of a highly charged amosphere has been taken and hence the suddea arrest of pulse and breathing in the experience of Dr. synarey the pule does not gree much vign of danger thll atter thove gien ly the respiratory system, yet, he remarks. chloroto.m certanly does kili by paralysing the heart, and the pulse should be watched.

Dilatation of the jupal whech ts satd to be a sign of danger, is also the first sugn of the pattent's recosery from the inlluence of chloroform. Fred. Later dudes stertorous breathing into two kinds, patatine and laryngeai. Although the snorine produced by vibrations of the velum, trequently takes place without indicating danger, whenever there ss any stertor, other sugns of dinger should be tooked for.
 faulty, in famishung the same per centage of wapour at the commencemencement of, as durmg the subsequent admunistration. Clover's mhaler is free from the above objection, ytelding any per cent of vapour required, but the stze and expense of inhalers, and the generally constdered safety of the ready method, of gwing chloroform make it unlakely that inhalers will be used by any number of general practutioners. Dr. Snow assumed when chloroform is given from a folded cloth it is apt to be given in too concentrated a form to which
he atmbuted most of the deaths, whercas Prol. Laster thinks the argument a fallat, and shows by has own caperaments a $\boldsymbol{3}^{1 \gg}$ ot chloroform by measure is poured on a ciuth sumbar to thot used a practuce, at a temperature of 70 twenty tour grams are caaporated during the throt halt inanate, giving +5 f pt cemt, as the propor-
 is used dung the early part of the luat namute, more than 4.5 per cent. is evipurated, athd at de quanaty be suon repeated, at is pow sible that death masy wear betore the end of the lishl anmate, stane out of toy deaths the chturolurn commater report tela deaths at the commencement of anditiatori. het in pratale, Prol. hister says. - the precise quantary used is a matter ot ac consequence whatever, in whach wase the per cent of wapur must be above that consedered sate.' We have seen that ins. snow and sansom, the shioroform commatee, de., hold quate a difierent opinion. 1 have never seen chloroform given by drop in hospatal pracuce, exetpt a Aem horh, and then the gwansty was not measured by curntug the drops per minute. In $1 \$ 47$ mir $\mid$. $k$. smpson writes. The smple handkerchet is antintely preterabte to any mbtrument. Itabe bately seldom measured the quantaty. We must judge of its ettects note than its quantuty. Ia 1800 , he writes, for sonte time past ithave admunstered chlurufurm by a new method. Une sangle tayer of towel is lad over the patients nuse and muath, and the charutorm is poured drop by drop. By the new method the patemt is more rapidy aneesthetised, whist a great savang is effected in the amount of dang employed. There is hute or none of the drug lust, and it is inhaled mixed with a sutficient quantity of arr, which is easily mispired through a single layer ot urdmary napkin. It is nutuceable that in 1860, Prof. Simpson thinks there should ve a "sufficient quantuty of atr,' and huw can that be possibly secured without measurng the chiorofurm. Dr. sansoin lays duwn two pramples in admaistration for securing the greatest satety.
I. The continuous inhalation of an atnosphere of known strength (of abuat $3 \%$ per cent). This is the princupe of detinute dilution.
11. The admanstration ot an extremely ditute atmosphere at first, and the progressive increase in us strength, never overpassing five per cent.

1 believe Dr. Rosebrugh has secured by his new method of
administering chloroform, the maximum of safety, in accordance with the principles laid down by Dr. Sansom, by such a ready method, and possessing so many advantages that it seems to me to require only a trial, and I predict there would be a rare exception to its adoption even by the most conservative. Dr. Rosebrugh writes . "My method of administering chloroform is as follows.-The patient is placed on his back, and one thickness of a linen napkin is plactd over the face. A 3 ii. vial is filled with chloroform : an assistant obser:es the pulse, and holds the watch in such a position that the administrator may see the second hand. The napkin is raised about $1 \frac{1}{1} / 2$ inches from the mouth, so that it does not touch the nose. The chloroform is now dropped upon the napkin over the mouth. One-third the maximum dose is given during the first minute ; twothirds the second, and the maximum quantity the third. The maximum dose should be continued from two to six minutes, till full nar cotism is produced. The maximum quantity may be given occasionally; or one-half the quantity continuously. To adults I have found 30 drops per minute, in most cases, sufficient. For children 12 years of age 18 drops; 7 to 9 years 15 drops; 5 years 8 to 1o drops. To adults never more than 35 drops per minute. Dr. Rosebrugh estimates if a patient inspires the whole of the vapor of 33 drops of chloroform per minute, he will be inspiring $41 / 2$ per cent. If 20 per cent be wasted, the per cent inhaled would be reduced to $3 \frac{1}{2}$, the safe proportion. The advantages of the method, judging from the number of cases I have seen, are, the small quantity of chloroform used, $亏 \mathrm{i}$. to 3 ij . Even children seldom object to it when given as directed. Adults seldom cough or spit. There is rarely any violent muscular morement or struggling, and the weight of authority seems to show that it is more safe to measure the dose than to give it hap-hazard.

Rules for Administration.- If the patient has fatty heart, dilated right ventricle, hyperæmia of the lungs, or is intemperate, chloroform should be given perhaps for major operations only, and then with great care.

A glass of milk four hours before the administration would perhaps be the most suitable food. Half an ounce to an ounce of brandy or whiskey to a full adult, and a teaspoonful to a child should be given twenty minutes before the administration of chloroform. The patient should lie down, as the heart is depressed. If
the adnuinistrator has not an assistant to take the wrist pulse, he may keep a finger on the temporal artery. The respiration should be closely watched, and the tace occasionally. When there is no refleג muscular action, which is best tested by the patient not wanking when the eyeball is touched, the patient is prepared for the operation. Squarey stys, "the insensiblity of the pupal to light is a more reliable test. If there be signs of danger draw the tonjue out forcibly with the artery forceps." Hoping the putung of the above tacts and theories together may somewhat help to sender the admunistration of chtoroform more safe, this too tengtiy articke is brought to a close

On the $24^{\text {th }}$ of April last, I was called to see M. P., a female child three weeks old. I found her suffienug from general erythema, which in many parts of the body almost amounted to eryspelas. As the mother was subject to erysipelas, and as she had tost one cluid at the age of two weeks whth that disease, I was afrand that this one would share the same fate. Un enquing into the history of the case, the mother informed me that the infant had the "red gum" at first, such as all her children had, and therefore she did not feel alamed, uthit, instead of disappeanng, as she expected it would, the eniption became mpidly worse, and retenuon of urne ensued. When I first saw the child there was slight fever, whth occasional autacks of vomitung, but it rtursed well, and did not seem in much pan.

1 prescribed a weak solution of soda bicarb., to be given evers three or four hours; and ordered it to be placed in a warfi bath, at thee same time showenng it over the abdomen and private parts. This treatment had the desired effect, and 1 did not see the child again until the 28 th, when I was called, and iound it much in the sane state as before. As there was stull considerable erythema, which seemed worst about the private parts, the vulva and meatus unnarius being geealy swollen and inflamed, I repeated the sods
mixture, anointed the parts with anguent oid., zme. alb., and ordered a repetition of the buth, 太心.

On the 3 oth I saw the child agan, and found it much in the same state, with the exception of the erythema and swelling, which were much better. As the bladder had not been ewaruated in siv days, I mtroduced a smail sulver tatheter, but as $n 0$ urine came away, I whatrew at and found, much to iny astonishment, that it was perfectly dry, not even tanged wh monsture There was no swelling over the regron of the bladder, such as would have been expected $m$ setention of urme. but a vight ridge was visible along the course of the ureters, and also a fullness over the kidneys, My dhagnosis, from these symptoms, was that the ontices of the ureters, whese they enter the bladder, were obstructed, most likely by agglutunation of the muscular wats of the bladder. caused by pressure of the urme when t was so long retane.i, before my first visit.

I contirued to attend the child, nsiting it every second day, and introducing the catheter, with the same result, until its death, which occurred, with all the symptoms of uroma, on the 22 nd of May. At every visit the course of the ureters became more distinct, so that, at last, thej seemed diated to the sice of a man's thumb, for nearly their whole length, until they merged in the pelves of the hidneys, which seemed swelled almost to bursting

Circumstances prevented me from holdang a fort mortom, which would, no doubt, have been very interesting.

In reviewing the case at will be seen that there was first, the erythema which caused the swelling of the vulva ind meatus unmarius, thereby producing retention of urine, which in its turn caused the closure of the uretral valves, if I may so style them, thereby cansing dilatation of the ureters and kidneys, which terminated fatally:

In confirmation of my dagnosis, I refer to an article by Sir Henry Thompson, which appeared in the British Mfedical Fournal, March Sth, 8873 , and was re-published in the May No. of the Canada Lancer. The extract reads thus --"Owing, then, to the pressure of some obstraction to the escape of urine from the bladder, that organ becomes dilated, the secretung substance uself is compressed agamst the capsule, and finally the whole organ may be distended into a sort of cyst. I have seen the ureters as large as the small intestine, and contan, with the pelves of the kidneys, thirty fluid ounces of urine:"

As such casen are of mare occurrence, I am therefore induced to shod you a report ot this out, with the hope that at maty we of ameres: to the readers of gour juurnal.

## Corrsppandence.

## (TO the Esitur of the LASiEt.)

Sin, Amulig the stuljects shath eitgaged the atlention of the Brant Medial Assoutation, at its last itueting,-ot whach a bret repurt apeears in this months Lasck, - these as one at deast which deserves to be brought mute parteutarly ander the notuce of your readers. I refer to a certain cumbinathon of tucdanal plants, spoken of by Ur. herr, of Gath, and others, as having been used in the treatment of dysentery and some other diseases.

A constderable number of practitioners in this part of the counuy, and some in other lands, have used this medictne, and have expressed their very high appreciation of it. Several physicians, wathin the circle of my own acquaintance, have been using it for some years past, wath remarkably favourable results. I am confident those gentlemen will concur wath me in the very high opinton 1 have been lad to form of ats value, in the treatment of some torms of disease, involving espectally the mucous membranes, and ranking among the most important and frequently-occurring to be met with in this country. I conceive that Dr. Kerr, to whose patent investugation and painstaking course of therapeutic inquiry we are indebted for this valuable means of combating disease, has laid the Profession under no small or inconsiderable obligation. I have used this combination, in its several modifications, for about mine years, with every reasonable satisfaction. In dysentery especially, and in diarrhoca, it has proved itself invaluable; and in croup, in scarlatina, and even in variola, unmistakable benefit has been derived from its use. Such is its efficacy in dysentery, as ordinanly occurring in this neighbourhood, that our usual experience is, to order sin or eight powders for the patient, and to hear no more of the case, untul one chances to meet the quondam patent or some of has tamil) attervards, and then learns the favorable result, oftentumes so prompt as to render it unnecessary to use the whole number of doses sent.. And we constantly find persons conung to us and askmg tor the
"green powders," so obvious is the efficient action of the medicine to those who have seen it employed, especially in severe cases, which have previously baffled other and more familiar means of treaiment.

I am permitted to state that Doctors Lawrence and Dickson, of this town, have both used Dr. Kerr's digitalis and squill combinations for several years past, and are thoroughly satisfied of its results. Dr. Lawrence was for a time inclined to be sceptical,-attributing the results obtained entirely to the opium, usually combined with the medicine, in the treatment of dysentery and diarrhœea. But I am aware that, as he stated before the Association, his original distrust gradually gave way, as he continued to use the medicine. Cases have occurred to him, as to many of us, in which we failed to subdue the dysenteric symptoms, while giving the medicine combined with opium, as usual, but soon succeeded when the opium was left out. Indeed it is highly probable that the principal effect of the opium in this combination, is simply to lessen the frequency of the dejections.

Having learned that Dr. Kerr has consented to send some of his published papers for insertion in your next issue, I have not thought it necessary to refer at all to the several articles included in the combination, or to any details in regard to their administration. Nor shall I ask space in your excellent journal for reports of particular cases, - but simply offer my humble testimony, as one of a number of practitioners, who has used the medicine for a considerable length of time, and who has felt an ever-increasing confidence in its efficacy in appropriate cases.

Yours, \&c.,
WM. CLARIEE.
Paris, Ont., July roth, 1873.

## To the Editor of the Lavcet.

Sir,-The following unique case is worthy of record :-A few years ago a young man in this vicinity went out to hunt deer. He came to a chopping, and was mounting some tree tops to get a clearer view of the place. He was carelessly dragging his rifle after him, when it exploded. The ball passed through the limb of a tree about three inches thick, tore a portion of the integument off the inner side of the right thigh, passed through his trousers in three
places, and imbedded itself in the glans pentis. I extracted the ball and patch covering it, and in a few weeks his recovery was complete. He is now married and the father of ieveral children. I am not aware of cases having been recorded where the ball from any firearm lodged in this portion of the body, although the eccentric and remarkable course taken by these missiles when striking an animal body is well known to surgeons. Animal bodies seem to resist or deaden the force of bullets by simply yielding to a certain extent at the moment of contact.

JOHN H. GARNER, M.D.

Lucknow, July 5th, 1863.

To the Editor of the Lascer.
Sir,-I have this day been called upon to attend a surgical case of peculiar difficulty, and beg to report its nature.

Mr. B., a farmer, living four miles from my office, attempted to lower himself from a mow or loft, in which he had assisted to store his hay. In doing so, he swung his body off the mow, and to break the fall held on to the edge (which was composed of upright boards with rough sawn ends, nailed to a cross-beam) by his right hand. A splinter on the edge of a board caught the whole weight of the body and impinged on the flexed hand, just over the carpo-radial articulation. The splinter was forced through the skin and the patient fell from the mow, and felt that a serious injury had been done. His co-labourer attempted to remove the splinter, and broke it off; and after a few more efforts at extraction, the patient came hurriedly into town to seek surgical assistance. About an hour after, he presented himself at my office. He was cold and partially collapsed, showing some serious form of injury. All he had to show was a small wound, about a quarter of an inch in length, in front of the carpo-radial articulation. He complained of excruciating pain and partial numbness of the two middle fingers.

I probed the wound and could find no foreign substance. I must say, I avoided the joint of the wrist in my deep and serious explorations as much as possible. I enlarged the opening through the dangerous area as carefully as possible, and still could find only tendons, \&c. I was about giving up further explorations, but the "confidence of the patient that the sliver was there" induced me to
more earnest endeayours. I sent for my confrere, Dr. Battersby, to assist, and to administer chloroform, as the patient was becoming exhausted and excecdingly nervous. Dr. Battersby promptly came to my assistance, - it was now in the "dusk of evening." He quite agreed with me that further explorations should be made. After chloroform was administered, I enlarged the opening still farther, and explored the whole of the carpus and palm as far as careful dissection would permit. No foreign substance could be found. I was about to abandon further attempts, when (as the patient was in a state of complete anæsthesia) I introduced my finger, and explored all parts of the posterior carpus; but on flexing the hand on the forearm, and exploring above, I detected a moveable body under the anterior ligament of the joint; by my nail it was moved to the original aperture, and by means of forceps I was enabled to extract, from the carpo-radial articulation, a mass of wood $\frac{8}{8}$ of an inch long and $\frac{1}{1}$ of an inch in diameter.

After rallying from the chloroform, I applied water dressings, and gave directions to keep them perseveringly applied with anodynes until I saw the patient on the morrow. I need not mention my apprehensions ; every professional man will recognize them. The progress of the case will be mentioned in some future issue.

Yours, truly,
N. O. WALKER, M.D., M.R.C.S., Eng.

Port Dover, July r6th, 1873 .

## QUACKERY.

(To the Editor of the Lascet.)
Dear Sir,-I send you an extract from a local paper of the 16th inst., as a sample of how they do it in this locality :

IMPURTANT SURGICAL OPERATIONS BY DR. DOW.
A few days since Dr. Dow removed a large Tumor from the arm of Mrs. Moses Haris, of Blackville, Miramichi. The swelling extended from the elbow to the shoulder, and had been enlarging for some years past. Mrs. Harris said that it was too heavy for her to carry any longer. She is rapidly recovering.

Hare-Lip.-A child of Mr. Pearsons, living near Florenceville, Carleton County, was operated on for a deformity a few days ago. It was not considered a bad case. The little patient is nearly well.

Dr. Dow informs us that this was the one hundred and siateenth time ! that he has operated for satd deformety.

Accinxant--John llanigan, who had his leg so badly fractured, and linee dislocated, is doing very well. His health has not been good tor some time past, his lungs deing seriously affected. Dr. Dow thanks that there is stll a chance of saving his leg.

A daubhter of Mr. Fgan, school teacher at Ifamtown, had her arm badly broken last Saturday, by a fence falling while she was getung ovet it. The lonen of the dbow were completely crushed, and she will probably have a stiff am for life. Dr Dow has the patient in charge.

The author of the abuve has flourshed by this and similar means for the last twenty years in liredencton.

Yours, Ac.,
Fredericton, N. B., July 19th, 873 .
MEDICUS.

## MINUTES ANI PRUCEEDINGS OF THE SIFDICAI. COUNCH. OF UNTARIO.

 FIRST DAY'S PROCEEDINGS.The Council met in the Court House, Toronto, on the $25^{\text {th }}$ of June. Dr. Dewar in the chair. All the members were present except Dr. Morrison.

On motion, Dr. Wm. Chark was apponted President, and Dr. Muir (Eclectic) Vice-President.

Ur. Forrest Dewar, in leaving the chair, said that in retining from the postion as President of the College of Physicians and Surgeons there was one circumstance which he was sure each and every one of them would regret- the absence from their Board of an old and most esteemed member through death He had no doubt that some testimonial would be drawn out by the Counril expressing sympathy with the deceased's bereaved family. He regretted himself, owing to circumstances over which he had no control, that he could not pay that attention to the business of the Council that he should have done. He begged to thank the Vice-President of the Council for the active, hearty, and steady hard-working manaer in which he assisted him when he was unable to carry out his work. He really believed the confernng of the Presidency of that Council upon him was an hunor to which he was not entitled, and he could only say that he thought he would be better as a gladiator in the arena than as a judge in the carcus.

Dr. Clarke, on taking the chair, referred to the importance of
this Council, which represented $x, 600$ medieal men of the Province, and su his diffidence in ucciptin the prositun. Ife thenhed them for electing him, and he would endeavour to do all in his power to draw them toge ther and heep them su, for the benclit of the public as well as the profiession.

Dr. Brouse monct that Dr. W. T. Nihans and Thas. Tyne, respectionly Trasurse and Regasdar, should be reelenad for the ensuing yeur.

Dr. Camptecll moveal in amendment thite the 1 restures be in structed to hand over to the Reghtrar, when appomitu, tite munaes, papers, and other dur uments cunnected wath the Cuanuil. Ho contended that they could not comply strictly with the existing Act
 not competent for them to have tho porsun, perfunining tho e offices.

After some discussion Dr. Camplell put in the following charges condemnatory of Dr. Akins' conduct, as treasurer of the Council.
"That inasmuch as Dr. Aikins, Treasurer of the Collese of Physicians and Surgeons of Onturio, in reporting as to the limincial condition of the Council before a perial enmmattee of the Legisiature of Ontario on the 26th of February liash, asocricd that he had, within a period of ten days, pad a clam of Mesirs. Hamer, Rose \& Co. for printing papers at the last election, and inasmuch as that firm declared that no payment ot any kind had been made by Dr. Aikins, and threntened to institute proceedings for the recovery of the sad amount alleged to have been puad by hum, and tiat Dr. Aikins by suth statemiat walfully atod eradamaty andid the Pariamentary Committee of the House of Assembly, and materially led to the defeat of the ball bufore the . .forevid winmittee of the Legislature, by wheh defeat, it is confidently believed, that a Ioss of six thousand dollars has been sustamed by the Council, therefore be at resolecd that the sad int. hikins hav forfeated the confidence of the Council and is not a fit and yroper person to huld so responsible a pestion as that of treasurer to the Cullege, and that he be called upon to resign such office, and deliver up to the registrar withuut delay all muncys, receipto, papers, di. perlathing to the affairs of the Councal wheh he may hat recerved in his wapaty as treasurer."

Moved by Dr. Brouse, seconded by Dr. Grant, -"That the charges of Dr. Campleill be referred to a conamittec of fire members of the Councal, who shall investigate and report as speedily as possible, and that the said Committee be compused of Drs. Hyde, Hodder, Muir, Bethune, and Berryman." - Carricd.

Dr. Dewar moved, seconded by Dr. Berryman, "That this Ceuncil, at this carly period of as session, wuald bees ew cunder to the widow and family of the late Dr. Agnew its sincere and heartfelt
sympathy at his untimely death. The Council regrets the loss of one of such genial disposition, and energetic and zealous action in all matters connected with the working of this Cuunchi, and decm it their duty thus to record by this testimonial their scnse of his worth and that the said resolution be forwarded in prupers furm to Mrs. Agnew:"-Carried.
 past stesion with regard to the unuatio Mcdanal suc, and moved that the propused Act to amond the Ontario Mediudi Act Le taken as a report of the Commitiee apprinted for the purpose of considering the subject by the Execativi Cumnattee and be referred to a Committec of the Whole on the following day.--Carried.

A full teat of the Bill, as aructaded by the Councal, will appear in our nevt issue.

On the motion of Dr. Berryman the following gentlemen were appointed a Committee for the appointment of the Stinding Committecs: Drs. Dewar, Brouse, Adams, Bugart, Edwards, and Pamel Clarke.

The following are the names of the gentleman on the standing committecs:-Printing Committee-Drs. Camplell, Eastwood, Springer, Comell. Finance Committec-IJrs. Hyde, Vernon, Fields, Hillary, Coburn and McEonald. Rutes and Regulations, Committe-Dis. Adam, Lorneth and Berryman. Feducatoon Com-mittee-Drs. Brouse, Grant, Akkns, Hodder, Derryman, Dewar, D. Clarke, Bogart, Edwards and Lavel!. Registration CommattecDrs. Lawrence, Bethune, Hodder, Campbell, Bogart and Dewar.

On motion of Dr Benyman, secunded by Dr. Ailins, two reports on the recent examinations were refered to the Committee on Education.

Dr Campbell moved that the motion passed at the late annual meeting of the Council, with reference to Dr Carson, disqualifying him from sitting on any committee, be capunged from the minutes.

After some discussion, it was moved by Dr. Brouse, as an amendment, that the Council proceed to the regular business.Carried.

## sECOND DAY'S PROCEEDINGS.

Dr. Brousc presented the repigt of the Committec of Education. The following is the report of the Commatee as amended and adopted. "Yuut committee had under cunsideration the two communications from the Buard of Examiners, and they arrived at the following conclusion.: That at present it is nut advisabic to institute an extended cumpetitive system of carmination, that the examinations should le partly ural and partly written, that, if pussible, the examining body should be reduced, in order to lessen the expenses
of the Council, but that under all circumstances a certam standard must be exacted. As far as possible the marks made oret and above the required number should be recorded, in order to the tormang to some extent of a comparative estimate of the excelience and proficiency attained under the prevaling system of medical education. In all cases, too, where more than ordinary ability is cvinced, the camincrs should have the pewer to aceept the wnten answers of the candidates as Leing sufficent withum subjectang them in addativi, In the usuat utal caxamination. Sary narks vut of a protable hundred to le considered evidence of such profictency.
"The following are the names of the examiners appointed for April, $\mathrm{i}_{744}$-Dr. Aikins, Surgery and Surgical Pathology, Dr. Hoddir, Atutuluy. Descriptive ant Surgical, Ifr. Iaveli, Aldiwfery and Diseases of Women and Children, Dr. Berryman, Materia Medica; $\mathrm{Dr}_{r}$ Wm. Clarke, Medical Diagnosis, Dr. Daniel Clarke, Chemistry; Dr. Dewar, Medtcine and Medical Pathology; Dr. Edwards, Pinysiology, Dr. Macdonald, Medical Junsprudence and Toncology, Dr. Vemon, Sanitary Science ; Dr. Bogart, Botany.
"Homcoopathic Examisers-Drs. Vernon and Ficld. Eclectic Examiners-Drs. Comell and Bogart.
"In the event of any of the examincrs failin ${ }_{0}$ to attend, the President shall appoint onc in his place, and shall also arrange the programme of examinations. juur cummittec further recommend, that in the crent of any candidate synifying his intention to the Registrar to be eamined and registered as a homocopathic or eclectic pract:tioner, due notic of such must be submitted to the registrar, so that the examination may be conducted by the respective parties appointed for that purpose, but prior to the acceptance of such notice from the candidate, the usual fees must be paid. In the event of any candidates presenting themselves for such examination, due notice to be given by the Kegistrar to the special examiner. All regulations of the Council, inconsistent with the above, to be repealed. Your commattec further recommend that no change be mode in the curriculum for ${ }^{\prime} 72$-' $^{\prime} 73$.'

The committee appointed to anvestugate the charges made by Dr. Campbell, against Dr. Aikins, reported the followng resolution as the result of their deliberations :-

Resolved, That the gross ciarges that were made by Dr. Campbell as against Dr. Aihins, accosing him of having wittully and fraudulenily misted the Parlamenarry Cummattee of the Huase of 1.ocal Legislation, and thereby having deftamded thes Council of $\$ 6,000$, find that after proper and careful examination of the charges made by Dr. Campletl, they are proved to be enturely withuut fuundauon, and the Cummatiee dpponted to carry out the investighoun are of opinion that such rash and rechless charges wathuut mature evdence deserve the censure of this Council.

The report was adopted by a vote of 15 to 5 .
The following is the report of the Committee on Finance as amended and adopted:
r. That they have cammed the books of the Treasurer, together wath the vouchers and cheques attached, and found them to correspugd, leaving a halunce in the liadds of the Prabuter to the credit of the College of $\$ 1,196,46$.
2. Wh have pleasure in finding ener, thing so thuruthgly correct and satisfactury, and ac fech it vad duty torecord the indeletedness of this Cuuncil to him for his many dismbucsted and unrequited services.
3. Your Committoc have who caramned the buohs of the Registrat, and fuand thene waich, the buoks shomayg the amount received by the Rexistrar io le $\$ 0_{53} 75$, wh the amuant pad out $\$ 033$ So, leaving a balance in hand of $\$ 1995$.
4. We find that Dr. Wuud, Has M.aiculawon liwninur at King-

 lection of.
5. Your Committer yuld rewo and the payment of the accomnts presented for printing, advertising, icc.
6. The account of Mr. Rolph, Fine riect, .mivanting to \$74, as by agreement with Mr. Rulph, is kewhamediad to be phad, as moneys accrue from the sale of dijlomas.
7. The Commatee are of the opinton that in the present state of the finances of the Coilege the matriculation examuners fees should be reduced to $\$ 2$ per student.
8. Your Conimittee recommend that the examiners employed at the last examination be pad as follons:-The resident exammers, \$r5 each, and the tollowing named: Drs. Sullivan, MLorrison, Mfurr and Field, $\$=0$ each, travelling expenses exciasive.
9. Your Committec find that there will be a balance left to the credit of the College of about $\$ 550$, out of which they recommend payment to the members attendurg the present session of $\$ 6$ per day each, together with travelling expenses.
10. "Your Committee, an conclusion, would recommend that no accounts be pard on account of the College minture whout the direct orders and sanction of the President, and that the Registrar hand over all moneys ummediately on conung into his possession to the Treasurer."

Dr. D. Clarke moved. seconded by Dr. Hyde, that if sufficient funds come into the hands of the registrat, within one month of this date, $\$ 20$ shall be paid to the resident examiners, and $\$ 30$ to those from a distance, eaclusive of mileage.-Carrid.

## THIRD DAY'S PRULEEDINGS.

Dr. Aikins moved that Mr. Archibald Mr.Murchy, MLA., Rector of Toronto High Schout, be appuinted Matheulaton Examaner in place of Dr. Wickson, resigned.-Carred.

The Ankudments to the Ontaris Medicai Act were agan brought up for consideration.

Dr. Kantence mured, secunded by Dr. Hyde, that the report of the whol on the .imendments to the Mediat Bint be adopled, and that it be left to the Exccutive Commutee to carry it wut is a consolidated Medical Act, or othenvise as they may see best.-Carrat.

Mured Ly Ir. Aikins, seconded by Dr. Lawrence,--That Drs. Berrmana and MaDonald be upponted to audit and invesugate the books of the late Registrar, and report to the Prestent.

Moved by Dr. Dewar and seconded by Dr. Lavell, that the following ountlemen De the Executac Cubablec for the present year -The President, Vice-President, Drs. Berryman, McDonald, D. Clark, Dewar, Cobum, Aikins, Aduns, Huddet and havell, five members to form a guonem.

Dr. Camp, bell presented the fullumag Keport of the Commatee on Registration :-

Your Committee beg leave to present the fulluwang report.The $\mathrm{R}_{\mathrm{o}}$ istrar submitted a shatemcat showiug ihat by stadents had been wiured on the Register. The number of matriculants on the studert's registur is nuw ic 5.57 names haw been added to the number of registr. "iuns since late report. The mames of 32 members have been removed by death since the period when the registration of medical practitioners commenced in this Province. Also 39 persons have availed themselves of the opportunity of obtainag the diplomas of membership recommended by the Registratuon Committee last year.

Dr. Dewar mored, and Dr. Hyde seconded, the folloning resolution - " That this rouncil beg to insist on the absolute necessity of economy with reference to the carrying on of the examinations." Carrica.

Dr. Berryman moved, seconded by Dr. Dewar, the following resolution - "That during the past year much labour has been entailed on the shoulders of the late Vice-President, Dr. Campbell, in organizing many details of the proposed amendment to our Medical Act, that the non-passage of such amendment was due to certain circunstances over which the Committee, along with Dr. Campbell, had no control, but still the thanks of this Council are due to Dr. Camplell for his many and assiduous labours."

Dr. Cumpbell wished to return his thanks for this unexpected kindness. He said he had endeavoured to work harmonously with
every gentieman of the Council. He was foremost in trying to put down any fecling of an evil spirit, but the action he had taken had not the effect on his friends he expected. But he was about to sevez every connection with the Cuuncil. This was the last time that any Homopathists would ever sit witho these walls, for it was intended to send in the resignation of all the Homopathists in this Council to the Registrar; they had forever done with the Council. The reasons were, that after exerting himself as much as he could, and filling the office of Vice Iresident energetically, he had nut succeeded to the office of President, which he looked for as a matter of course. He was told indirectly that the reason of this was that it would be a monstrous thing to be said in the country that a homowpathost was at the head of the medical profession. He was also told by his friends ouside that he wuld never get the other members of the Council to look on him with cordiality. He wold them he was always met with courtesy and kindly feclings, and that any prejudice would soon wear off But when he mas told that in four yeurs there had not been one homeepathist who presented himself fur camnama. tion, he thought this was sufficient argument to go to the cuuntry and put an end to the Council, so far as the humuepalisto were concerned.

The President said he could not allow it for a moment to go to the country that it was because he (Dr. Campbeli) was a homocopathist he was refused the chair. (Members-No, nothing of the kind) He told Dr. Camplell that the reason why he was not chosen President was a persional consideration alone.

Dr. Grant remarked on the sudden resignation of Dr. Campbell. He consudered no person should withdraw from the Medical Councul on personal grounds, and because he was not elevated to any mportant position. If any member had the good of the Council at heart, he should still work as one of the body endeavounng to elevate the medical profession in the Province of Ontano (Hear.) The Legislature, when their Bill was presented, should be made aware of the important fact that Dr. Campbell withdrew from the Council on purcly personal grounds, and such withdrawal should receive the consideration of the Legisiature. (Hear.)

Some discussion ensued on the conduct of Dr. Cambell towards the Board of Examiners, and which the members present condemned in very severe tc ms.

The President drew the attention of the members of the Council to the matter of medical men being required to furnish particulars respecting the deaths of persons without any remuneration. He thought the Council should consider the matter.

After a vote of tharins to the Warden fus the use of the hall, to the President and members of the press, the Council adjourned sine die.

## Snlental Gltiths.

## OBSTETRICAI SOCIETY OF LONDON.

## Meeting, May 7tif, 1873.

 by w. ROSS JORDAN.
The woman, xt. 29, was a paticnt in the Brmuggham Hosputal for Women. In April hast she had inflammation of the bowels, which threatened her life. In July or dugust she first felt the chald, and in September she expectud and prepared for her confinement. From this tume she for sia wechs gradually bewame smailer in stze, afler when he fancied she was in labour, being in great pain for three or fuur days. After that she had frequent shovers and a cold secisation in the aldomen. On the 13 th Vecember a swelling in the abdumen nut larger than an udenary pregnancy at six months was discovered, lluctuating a little towards the left side, and on alceper camminationia a ruand mass like the placenta between the unibilicus and pelits and a lurder projection to the uppet and left border of the tumor. The cervan uteri was pushed up to the night side. The sumed penetrating thirec and .r-half inches pounted to the right grom and moved the round buly ich in the abdommal examnation The fecto varinal puuch was occupued by a hard rounded mass On December 2 ist a puritute with the asphrator was decided ufon, and a quantity of churuhateculured fluid maned with white ftakes was drann. Ar. Russ Jurdan, frum liss examunation on this occasion, came to the condusion that the case was one of extrauterinc foetation. Two hours after, cumplete collapse came on, and hemorrhage into the cyst or abdomen was suopucted. Five hours after the use of the dispiratur, an incasiun four inches long was made in the abdominal wall duwn to the peratoneum, when the cyst with the placenta under it presented. A clut of bloud having been removed, the cyst, with a foot near the external opening, was drawn forward, but the wall of the cyst beang thin, it ruptured, and through this opening the fuetus was extracted. The placenta was left undsturbed, and the openings of the cyst and the abdominal wall were brought together by sutures of carbolized catgut, leaving an open wound abcut two and a-half inches long, wheh was covered with a layer of tenax, etc. The patient progressed favorably, and on the Ist and and of January large fragments of placenta were discharged, and on the xoth of Ayral she came to the husputal looking well with he wound quite closed.

## Note on the Diagnosis of Extra-Utrine Prgnancy:

BY LAUSON TAIT, F.R.C.S.

The atahor thought that in these cases very hatic wofidence should be placed in the statemusts of patacnts of they wete not in harmong with physthat aigns. He had, a cursenfence of the hastory of her mase gien by a antient, been led to make an erronevis ditgnosis, mistaking a multucutar usanian tumor for a case of extrauterine futatan. Thete were two circumstances whels amarably accompanied extra-uterne gestation that has gotse past the pernud. The tirst was dut to the generat exchement and wingesuon of the organs invelved, specidily to the condergeracnt of the uterus, and the second to the , bourphon of the lequor athail after the danh of the chald. The condtuons whe what extat-uterane pregmancy may be confused lofore the dexth of the chatd, were displacement of the normally pregnant uterus duang the carls months, pregnancy wmpheated wah fibioting ona or cystie disease of the therus, and mure rarely presnasey of one-hadi of a double uterns. Ater the death of the chald, diagnovs was more difficult, the two points in the hestury already mentioned were most imporhat, tusculhitury sibis were of no use. The other conditions with which it might be confused were pelvic hematocele, ovarian tumors, especially dermoid cysts, cancer, fibro-cystic disease of the uterus, hydatids of the uterus, and phantom pregnancy. The uterus in extra-uteine pregnancy was alvays intimately associated with the tumor, and generally in front of it moveable to a dimitud catent and cnlurged The must important point was that the cervix is almays patulous. Under such circumstances, if a foital heart were audible, the case was clear. If the case were seen after the death of the chald, the tumor would be sott, and besides obscure bilotement possibly a part of the child might be made out by internai or external examination. Of the three cases which the author had seen, two had been first pregnancies, and in neither had there been any troublesome pain, in the third there was great pan, but the pauent was seen durng the false labor.

## A Casc of Giatritumy for supposed Eixtra-Uterme Gestation.

## hy alfred neadows, m.d.

The pauent, at. 58 , was admatted to the Hosputal for Women, and had passed tirough the chmachenc period nome years dyo. She had great pain in the aldumen, which wats enlarged by the presence of a tumur. slateen years since she fancted herself pregnent, and in due time had pains like those she had felt in her first confinement, these huncerer gradually declined, and nu chald nas bum, and since that due she had considered herself to be carrying a dead chald. Un admassion the abdumien was fuund to be occupned by a large tumor alvout the stee of the uterus ai term, tender to dee turh,
and apparently solid. The uterus was high up, and its cervix very small, the sound passed upwards and fonwards two and a-half inches. The balduce of opiaion among the athor's colleagues being that this was a has of eatra-uicrme gestation, it was determined to clast uy all duakto tupon the matter by making ath caplurd-
 A white frimble mass was then diowncou, hatak all the characters of malignant dismase, it Lruhc duwn andily, and two vunces of a thick bromish fluid coniped. Fimling it impussible to remove the mass, the ablominal nound was clused. Fifty-three hours after the operation the pationt diad, and, upon upoinmb the abdumen, the mass of malignant diseasc was furnd to be in the ontertum, which overlapped the tumor and was abutit an mhin in uchness. The tumur itself, whith was adhereat in wery drection, prowed to be a large fibrucystic tumur ar the uterus. The author culed this cise to show the difficuity of didionusim; aldummal tumurs. Eien with the aid of an caplutatory incision accurtut didgnusis of the chataket of the tumor had nut been amied at pretivus to dealla. He beliesed it to be the moral duty of cter) une to recurd his failures do well as his successes.-Obstctrical Fournal.

## ACTION UF THE VAGUS UN THE HEAKT.

Schifte old view that the vagus is really the motor, and not the inhibitory, nerve of the heart has lately ructied sume corroboration from some experiments performed by 1 . Mosso, and recordid in a late number of the Italian journal, $Z$ Sperimentate. Musso's experiments were peculiar in the circumstance that he employed chemical stimuli to excite the nerse. The animals were dogs, and the cardiac beats were made independent of blood-pressure by the subcutaneous injection of atropine. The vagi and recurtent neryes were excited by the careful application of a drop of caustic solution of potash. The conclusions arnved at by M. Mosso were that the excitation of the nervi bugh mureses the freyuents of the pulse, in conscapuence of the irrimition of the excitu-mutur fibres rumbing in
 be upened, atd the sympathetal be stanated fium the vargus, chemica, cacitation of the latter constandy prodaces an mercase of the [rulse frequencs, whatst cacitition of the sympathetic is whent perceptible ffect on the thythm of the heart. Mechatual arritution of

 of the blood pressure.-Lancte.

## "CATCHING COLD."

In this changeable climate of vars, hardly on weeh passes wathout ourselves or some of our dequainhances catcling wold. Our upportunities of studying the puthulugy of colds are thas only tov numerous, and yet we know su litth abrout it, that he aust either bea very wise or a very rash man who will undertake tusay why exposure to an east wind will give corgat to one man, sure throat to a secund, bronchitis to a thard, and so jll. Almust all that can be stated about the matere with any degree of curt.uaty is, that the shocases just mentioned, as well as a goud many wthers wheh are all pupularly ascribed to cold, are liable to cumb on after the whole budy, or parts of it, such as the feet, have been quichiy couled belun the nurmal, or, in other words, have been chilled. There are aluase twe butors concemed in the cooling ether of the body or of tis parts. Une of these is the nature of the external medium, such as arr or water, which is in contact with the budy, and the uther is the condition of the Dloud-vessels, by whan the warm Lived is Lrulghe from the interior of the body to the surface, and thus exposed to the influence of cold. Dry air has so littie power to abstrat hesa, that Arctic travellers can go alout comfurtably without a great wat when the thermoracter is standing fifty degrecs betulw zero, provided datt the air be still. A very hithe wad is sufficient to prevent them from duing thas, however, fur the constant inpact of fresh particles of cold air on the surface of the buly suon carnes off tis heat. The presence of mosture in the ar greatly ancreases ats puner of abstrationg heat, and when wind and moisture are combined, the challage eftect reaches its manmam. Wimay be ablic to face a cold thry wrad muhout feeling any anouvemence, but if the w ad be mosst, or, still worse, if our cluthes be wet, we shall feel challed cumpletely through, sherer, and prolably catch a severc cold. Heat has been constantly and rapidly alstracted from vur budies, and the Lloud whah brogss warmeth to the surface his stocif been at kength vooled. No one is astonished at catchong cold under such circumstances, but we are uften astumsted that we should du so during warm weather, and with hardly any apparent cause. Experience has shown us, in fact, that it is not so much the absolute lunness of temperature whah gives rise to culds as sudden changes from a higher to a luwer. The reason of the remaned unhnown all the recent researclies of I'rofessor Rosenthal cleared up, the mystery. It is well known that when culd is appled to the surface of a healty ammal, the cutuneous vessels contract. They thus prevent the blood from carculating in the skin, and by confining it to the interior of the budy, prevent ats cooling, and preserve the temperature of the nat organs, uniess the application of cold be contanued for a considerable tame. I'his is not the case, however, when the animal has been previuusly expused to warmith some tame before. The cutaneous vessels become para-
lysed by the heat, and remain dilated even after the cold has been applied. The blood is thus exposed over a large surface, and becomes rapidly cooled, even although the temperature of the surrounding medium is not very low. In Rosenthal's experiments, animals were kept for a little while at a temperature from about 97 deg. to 104 deg. Fahr. The temperature of the animals themselves quickiy rose during their confinement to ini deg. or 113 deg. Fahr. After their removal, it not only sank to the normal, but even below it, so that an animal which was from 107.6 deg. to in deg. in the warming apparatus fell to 96.8 deg., and remained at that for several days, although the room in which it was kept was moderately warm. Confinement in a choky office, hot theatre, crowded ball-room, will have a similar effect on man, and in the latter case it will be increased by the exercise of dancing. From such places people pass out into the cool open air, or will sometimes even purposely station themselves in a draught. The blood which is coursing not only o:er the flushed face, but through the dilated vessels of every part of the surface, is rapidly cooled below the normal, and, on its return to the internal organs, cools them much more quickly than it could have done had the person simply been exposed to cold without dilatation of the vessels by previous warmth. Rosenthal lays much stress, and we think rightly, on the great effect of sudden cooling in bringing on a cold, the sudcen change in the temperature of the blood producing an irritating effert, and inducing inflammation in any weak organ in a way that a gradual alteration would not do. It would seem, however, that the alteration must be from a temperature above to one below the normal temperature of the blood, and not a mere reduction from one considerably above the normal to one at or near it. When much heated, we may stand for a short time in a cool atmosphere with impunity; but it we stand long enough to carry the cooling process too far and produce a shiver, we run a great risk of catching cold. The fact that it is more dangerous to sit for a long than a short time in wet clothes, appears to indicate that a considerable and more gradual cooling, such as may then occur, will produce similar effects to a slight cooling suddenly effected by exposure to a cold draught after being in a warm room. The effect of a chill in causing inflammations may be partly due to the effect of cold on the tissues themselves, and partly to the hyperænia which will occur in some parts when the blood is driven out of others by the contraction of their vessels. Rosenthal is inclined to ascribe the chief power to the former of these causes. Everybody knows the beneficial effect of cold baths, cold sponging, etc., in "hardening" persons, as it is termed, so that those who employ them are able to face almost any weather, and to endure sudden changes of temperature without injury ; while those who coddle themselves and stop up every crevice lest a breath of air should blow upon them, are constantly suffering from culds. Rosenthal considers that this is due to the frequent
application of cold water or cool air increasing the tone of the cutancous vessels, so that they do not become so much relaned by heat as to be unable to contract with suficient force when necessary: The power of resulating the temperature is thus preserved, and the person prevented from catching cold.-Brit. Mid. Fournal.

## THE LADY MEDICAL STUDENTS.

Judgment has proved adverse to the bady students at Edinburgh on their appeat to the Court of Session. The tnbunal was a very competent one, and the arguments fro and con. Were reviewed with clearness and impartiality. Three of the judges hold, or have held, high offices in the Jniversities of Scolland, while seven others have taken an actuve part in academical administration. Our readers will remember that sume threc gears ago the Cniversity Court issued regulations under which ladies might be admitted as medical students. Accordingly Miss Jex Blake and six others matriculated after the usual camination; were enrolled as students; and attended the classes which qualify for the first course. $A$ number of the professors, however, in them protessonal capac:ty, and as memiers of the Sinatis
 them to graduation. After a goud deal of phatf rm and newspaper controversy, the ladics called upon the Chancellor and Senatus to defend their procedure before Lord Ordinary Gifford. His lordship pronounced in favour of the appellants; but his deciston has been reversed by the second division, after cunsuiting the wther judges. Uui of the thelve judges, five were in the apheilanto farur afact whath, it is said, nill hrupt the ladies to appeal to the House of Lords. It seems difficult, however to get rid of the argument that the original consitution of the university did not contemplate the admision of ladies, etther to studentship or to graduation. The remedy open to the ladies is surely a sufficiently whivious one. Let them dervie the atmply furds they have at thear dispusal, nut to fruiticss and vautivus litigation, Dut to the founding of a college of their own, where they may prosecute their medical studies, and qualify for such practice in the discase of women and childien as they may prove fit for. Soctety whit respect them the more, and even recounze their clams as yualified nurses and accouheuses the souner, if they reare fium a uscless and nut very feminini contest, and sech the athanment of their ambition by means at once legitimte and casy.-Lancet.

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# A Monthly Journal of Medtcal and Surgical Science, 

Isaned Fromptir on the Firt of ench Xonth.
 cases cerurring in pratice Adrertisements inserted on the most tiberal terms. All Letters and Comntuncations to be addresed to the "Editor Canda Lanct," Torento.

TORONTO, AUGUST $1,1873$.

## THREATENED DISRUPTION OF THE COUNCIL.

At the close of the last mectung of the Council of the College of Physicians and Surgeons of Ontano, the Homoopathists signified their intention of withdrawing from the Council, giving as one of therr teasuns the fact that Dr. Camptell-who was Viece-Fresident last year-was not apponted President this year, another reason bemg, that although the Councl had been in operation four years, no students of their persuasion had presented themselves for examination. In regard to the latter objection, cither of two things must have been the wase, wa, that thene is no longer any demand for practitioners of thetr school of fath, or else therr students are averse to the high standard of qualification required by the Council; for even Dr. Campbell will not say that, by any possible means, injustice could have been dune them by the camminers at the Board. In reference to the furmer, we melane strungly to the kehaf that persural feeling was the chtef obstacle in the way of Dr. Campleil's ptontotion to the presidentship of the Council. We are not aware that the Homocopathists have as yet offictally sent in their resignation, and we think it quite prubable tics will nut du so until they have bruught thear alleged gnevances before the Legthature, and have received a Guorably reply from that august body. Be this as at may, no one who understands the working of the det and who has the interest
of the profession at heart, but will regret that such action should be contemplated.

Whatever faults Dr. Campbell-the leader of this body-may have, or whatever of personal fecling he may have aroused against himself and his promotion to the office of President, no one who knows the circumstances wilt deny that he worked camestly and faithfully in the interests of the Council and the profession, and we regret to see him now contemplating the pulling down of a structure that he himself has worked so hard to build up, and especially on a pretext so frivolous as the one alleged.

All must admit that the Councal have a perfect nyht to select whom they please to preside over their deliberations. During the greater part of the year just past, Dr. Campbell was actirg as President of the Council, owing to the unfortunate illness of the President ; and while we have no particular fault to find, we beleve that many of his acts, while in that position, were such as to estrange some of his best friends from him. He was also unfortunate enough, while acting as the Chairman of the Board of Examiners, to place himself in direct antagomsm to the majonty of the members of that Board, and their influence was no doubt used against his candidature for the presidency; so that if Dr. Campbell was not made President of the Council, he has himself in great part to blame. We do not deny that some, both inside and outside the Council, may have felt that it would be inconsistent to have a Homocopathist as President ; but the majority of the members of the Council distinctly disclained any such fecling. In a mixed body like the present Council, there could have been nothing wrong or inconsistent in selectung the Prestdent from either wing of the profession, and were it not for the strong personal feeling that existed, Dr. Campbell would have been selected, and judged by the labors he has done in the interests of the Council, no one was more deserving of the honor.

And now that the Homocopathists, under the leadership of Dr. Campbell, have undertaken to organize for the purpose of upsetung the Bill and establishing a separate Board for themselves, we feel disposed to let them go. We do not mean by this that they are to return to the old licensing board, we never wish to see that revived; but we think that, owing to the different sectional interests, the Council might, without injury, be spht up into sections; each section have control of the final cxamanation and licensing of its own students.

Come what may, we niust insist upon a uniform standard of matriculation for all; als, a uniform curriculum and examination in all branche common to the various schools, on such subjects as anatomy, physiology; chemistry, diagnosis and pathology, medical jurisprudence and toxicology, sanitary science and botany. The students may then be passed to either section, to be dealt with as such body may deem proper. We believe this is the only plan which will give satisfaction; each section of the profession will then have full control of the final education and registmation of its own students; but the same matriculation and primary examication on the above subjects should be undergone by all, and the la ter may be passed at the end of the second year.

There can be no desire on the part of the general prefession, even if they had the power to do so, to force any of the $s$ ets to continue as they are; at the same time we hope we may never return to the state of affairs that existed prior to the passing of the Ootario Medical Act. We have just one remark more to make, and tinat is in reference to the appointment of the cxaminers for the ensuing year. Aecording to the spirit of the Act, we do not think that the members of the Council should have constituted themselves examiners. The examiners are the scrvants of the Council, and as suth should have been chosen outside of that body. It gives it too much the appearance of a close corporation, and is not calculated to inspire that confidence, which should ever exist between the profession and the Council.

## ADULTERATION OF PEPSIN.

This agent, winich is so invaluable to the physician in the treatment of many forms of dyspepsia and indigestion, from its expensiveness has been almost beyond the reach of many patients. A cheap article, under the name of Houghton's pepsin, has been in the market for several years, and has no doubt been used pretly extensively in many parts of the country. Tice genuineness of this preparation has been suspected for some time past, although no one has gone to the trouble of making a careful analysis of it. It has been remarked by many, that it possessed a very bitter taste, and did not seem to have any decided effect in aiding the digestive process, further than that
produced by any ordinary tonic. This led Mr. A. E. Fbert, of Chicago, to make an analysis of a sumple of the article; and although he did not succeed in proving its presence, he expressed his firm opinion at the mecting of the American Pharmaceutical Association at Baltimore, that the bitterness was due to strychnine. Since then, R. Rother, in the Chicajo Pharmacist, describes the method adopted by him for testing its presence. He says if the bichromate of potash and sulphuric acid test, which is so externely delicate for pure strychnine, is applied to a mixture of stryechnine containing sugar, the reaction is prevented or obscured by the reduction of the chromic acid to the state of a sciquioxide. But if the mixture contains uncombined strychmine, chloroform will extract it,-though not if it exists in the condition of a salt. The suspected pepsin is thereforc treated whe a few drops of ammoniz, and then with chloroform, filtered and evaporated, and the residue tested with sulphuric acid and bichromate of potash, when the beautiful violet color, chanacteristic of this test, is produced. Owing to the ready adulteration of this medicinal agent, great care is necessary in its sciection, and it has been recommended that pharmaceutsts should, when practicable, prepare it themselves. By the process given by Mr. Scheffer, of Louisville, Ky., it may be easily and expeditiously obtained, and at a very moderate price. This consists in precipitating it from its acidulated aqueous solution by saturatin- with chloride of sodiun.

The stomachs of pigs are the best sources of pepsin, the yield from which is said to be cnormous if the proper means are employed to secure it. The stomachs should be quite fresh and well cleaned. They are then cut into thin shreds by means of scissors, macerated for two days in a large volume of acidulated water, of the strength of half an ounce of muriatic acid to one gallon of water. This quantuty is sufficient for one stomach. The acid liquid is then poured off and the stomachs are again macerated for two days longer, with a similar quantity of acidulated water; and this operation may be repeated three or four times with profit. The liquid obtained from the several maccrations is treated with about one-fourth its weight of chloride of sodium, and the precipitated pepsin, which accumulates in flakes on the surface of the liquid, is skimmed off. strained, and pressed. The moist pepsin is then mixed with a weighed quantity of milk sugar, and dried. It is then weighed, and enough milk sugar added to make the final weight of the mixture
equal to ten times the weight of the real pepsin. Cold weather is the most suitable time for manufacturing pepsin, as the stomachs will remain fiesh a much longer tume than in warm weather. The yield of pepsin from sux stomachs is about four ounces, and when the milk sugar is added it will make about forty ounces. Thus it will be seen that the outhay ancurred is very little, and the semuntration, aside from the fact of having a genuine article, is sufficient to reward the labours of the chemist abundantiy.

Several attempts have been made to procure liquid pepsin in a concentrated form, having the same strength as the saccharated. For this purpose the moist pepsin is dried and then mixed with sufficient muriatic acid and glyeerine to nake the liquid weigh ten times as much as the original pepsin; but the results were not satisfactory. The acid and glycerine wier added to the pepsin without drying, and the strength proportioned as before as nearly as possible, but it was found that nether of the above would dissolve albumen, the ordinary test of the value of pepsin, and the minture did not form a clear soiution. It was found, however, that if the liqud uas increased to forty times the weight of the pepsin, a perfect solution could be obtained possessing the active properties of pepsin; but was only one-fourth the strength of the saccharated powder.

The interesting and important investigations oi Mr. Scheffer will develop a new cra in the manufacturing interest of pepsin, and sweep from the market all base and worthless imitations, both by virue of the genuinenes; and cheapness of the article produced. We particularly rewommend this subject to the attention of our pharmaceutical friends.

## THE APPROACH OF CHOLERA

Notwithstanding the uneasiness which has been felt in view of the probable approach of cholera, very little actual preparation, by way of cleaning the lanes and streets of our cuties, has been done by the authorities to ward off the discase. Several cases have been reported in some of the cittes of the Southern States of America, but no detaited statements of its ravages have reached us. It is also quite probable that many of the socailed cholem cases were nothing more than aggravated cases of diarrhoea in debilitated or
intemperate patients. The disease has shown itself in some of the cities of continental Europe, but it docs not appear to travel with its usual rapidity,-a few cases have occurred at Dantzic, Vienna, and in the north-westem part of Italy. In the latter place, twenty-four cases are reported, of which about half the number died. The Italian Government has adopted the most energetic measures to prevent-its spread. On the whole, the disease has not shown signs of wide migration anywhere in Europe; but it is nevertheless the duty- of the authorities to be watchful and prepared. The adoption of the most approved precautions against its attack is the bounden duty not only of the public, but alse of each individual.

Cholemat is not-generally looked upon by the profession as a very contagious malady,-so that under reasonable care it is not likely to attack even those who act as nurses or are in close attendance on the sick. Prompt disinfection, and the neutralization or destruction of all matters which contain any of the discharges of choleraic patients, are imperatively necessary. The water supply should be carefully examined wherever the slightest suspicion as to its purity exists. House refuse and other filth which may have accumulated about the premises should either be removed at once or thoroughly disinfected; the rooms whitewashed with fresh lime; all foul and rotten drains, esprcially those near or bencath the premises, should be attended to ; and the soil beneath basement floors examined, and, if necessary, thoroughly disinfected by means of lime or a layer of charcoal. Regularity of diet and rest, temperance in cating and drinking, are among the most important precautions, and should be strongly inculcated. All these precautions may be unnecessary so far as cholera is concerned, and we sincerely hope they may; but the good effects of such a regime cannot fail to be of invaluable service in anticipating and arresting the spread of other epidemics many of which are nearly as fearful in their ravages as cholera.

Apponimisent of Examiners-The following genticmen have been appointed examiners in medicine by the Senate of Toronto University:-Physiology and Comparative Anatomy, G. Wright, M. B.; Surgery and Anatomy, J. E. Graham, M.D.; Medicine and Thempeutics, J. W. McLaughlin, M. B.; Midwifery and Medical Jurisprudence, T. White, M.D.; Chemistry, W. H. Ellis,.M.A., M.D.


[^0]:    1 Prior to this all the ingredients were equal.

[^1]:    2 The possibility of any future report from Dr. Brown was cut off by his accidental death a few months afterwards.

[^2]:    - Ingtatis was the protabic saue of delinum. the winill sombination ought to have been sidentituted.

