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THE CANADA LANCET,

A MONTHLY JOURNAL OF

MEDICAL AND SURGICAL SCIENCE.

Vol. X.

TORONTO, OCT. 1ST, 1877.

No. 2.

Original Communications.

FORCIBLE FLEXION IN FIBROUS AD-HESIONS.

BY JOHN GARDNER, M.D., HESPELER, ONT.

Thinking it of interest, I will take the liberty of giving you a history of my own case with treatment employed. About fourteen years ago I was employed as a surveyor on the shores of Lake Superior. In my work I received a severe wound close to the inner margin of the patella of the right knee entering the joint, from which the synovial fluid escaped in considerable quantity. I was so situated that no medical aid could be procured, and merely bandaged it up and made arrange ments to start for home. Being many miles distant, it was very painful during my journey, and it was evident that synovitis had set in. On arriving home, a medical man was sent for and diagnosed synovitis. Hot poultices were applied week after week, the joint suppurating profusely all the time; the leg was kept perfectly straight and no attempt at motion used whatever. At my request the poultices were discontinued and other dressing employed. The wound gradually healed up, so that at the end of nine months I was able to leave my bed, but not the house for several weeks after.

Since then I have myself studied medicine, and have been employed in the practice of my profession in California and other parts; but my leg has always been a great trouble to me—being perfectly straight and stiff, I walked with a limp. If my toe came in contact with anything, it produced great pain in the knee, and while riding in my buggy it was very inconvenient, not being able to sit square on the seat or on a chair, owing to the amount of pressure that was produced on the back part of the thigh.

I consulted many eminent surgeons in the United States, some of whom thought by operating, some motion could be obtained in the joint, others did not favour any interference; but being myself desirous of gaining the use of my lunb, returned home with that intent. After coming here, I consulted Dr. Sylvester of Galt, and he considered an operation advisable. May 28th was fixed upon as the day, and the operation was proceeded with as follows: I was placed on a table and brought thoroughly under the influence of chloroform by Dr. Philips, I was then drawn well down over the end of the table and a block of wood was placed under the lower end of the femur to act as a fulcrum, the thigh was well fixed by assistants, and flexion was attempted. it was thought impossible to break down the adhesions that had formed. Dr. Sylvester informs me that the amount of force required far exceeded his expectations, but by continued pressure the adhesions gradually gave way with audible cracking sounds, and the leg was brought down to nearly right angles. It was worked up and down several times with ease. I was then placed in bed and the knee encased in rubber tubing, and water kept constantly running through, which kept the leg cool and prevented any inflammation. Morphia was administered, and very little pain followed, though the parts were somewhat tender. The leg was at first kept quiet and straight. At the end of eight days I was again chloroformed and the leg flexed; but little force was required to bring it down. This time my leg was kept bent at nearly right angles, and tubing used as before. After the bandages were removed, the leg gradually straightened out. I now procured one of Tiemann's anchylosis splints with a screw behind the knee, and used this twice a day flexing the leg to nearly a right angle. It is now three months since the operation, and I am able to walk by the aid of a cane, and can flex my leg by muscular action to an angle of 45 degrees. I might here add that the extensor muscles of the thigh were very much atrophied, but are gaining in size and strength. I am confident that in the course of time, I will walk as well as ever.

I take this opportunity of thanking those who assisted in the operation, and especially Dr. Sylvester, whose attention has been untiring.

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CASE OF EMPYEMA.—TREATMENT BY CARBOLATED IODINE LOTION.

BY J. FULTON, M.D., M.R.C.S., ENG., L.R.C.P., LOND.

In the number of this Journal for October, 1875, is reported a case of Empyema occurring in a man aged 70 years, under my care, in which recovery took place; and I now have to report a similar case occurring to a patient 23 years of age, which resulted in death. The fatal result, however, was not immediately due to empyema, but rather to the occurrence of an obstinate diarrhæa, with which the case was complicated, and which resisted all efforts at treatment until the patient was completely worn out by the long continued and exhaustive discharges from the bowels. lowing is a history of the case :--Wm. H., æt 23; born of healthy parents; a

lather by trade; mother, brothers and sisters all llving and healthy; father died of pneumonia; says he had gonorrhœa and chancroid; general health good up to the time of attack; no visible signs of constitutional syphilis; slightly addicted to intemperance, tall, muscular, weight about 160 pounds On or about the 24th of last May he caught a severe cold by lying on the damp grass, and was soon after seized with pleuritic pain in the right When I first saw him he was suffering acute pain in the right side, with difficulty of breathing, pulse 120, skin hot and dry, and symptoms indicating acute pleuritis of the right side. I put him under appropriate treatment, and in a short time he was relieved; he breathed more easily, and in a few days began to sit up. There was evidence of effusion in the pleural cavity on physical examination, but there was very little difficulty in breathing, and the patient was able to assume the horizontal position. There was no bulging of the intercostal spaces, nor increase in the measurement of the right side of the chest. The symptoms were not urgent, and I fully believed the absorbents would in a short time remove the fluid. With that end in view I placed him upon iodide of potassium combined with diuretics, and gave him occasional doses of sulphate of magnesia, compound jalap powder, &c. Blisters were also applied to the side of the chest, and repeated at intervals. Under this treatment he seemed to improve for the first eight or ten days, after which the fluid increased,

and at the end of a week or ten days the chest was eompletely filled. The patient was now obliged to remain in the upright position. There was only slight bulging of the intercostal spaces, and no appreciable increase in measurement of this side of the chest. The pulse was, and had been for some time from 96 to 100. At this juncture I proposed tapping the chest in order to get rid of the fluid to which the patient consented, and desired to have Dr. Russell of this city called to consultation We accordingly met on the 18th of June, and after a careful examination, he coincided with me in the propriety of paracentesis, which was done by mean of an aspirator and twenty ounces of lemon colored serum was removed. This gave immediate relief, and the patient improved for a few days but the fluid began to re-accumulate, and in about eight days the chest was as 'full as before when again introduced the aspirator needle, and to m astonishment withdrew fifty ounces of cream looking pus! Although every precaution was taken to prevent it, some air may have gained entrand during the first operation. This operation gave great relief, and the patient was better and con tinued so for about a week, during which he wa able to get up and go out once for a drive. fluid, however, soon began to accumulate again and caused him more distress than before. before the chest was half full of fluid, he complaine of pain and tenderness in the abdomen, chieff in the epigastric and right hypochondriac regionso much so that I began to fear pointing through the diaphragm into the abdomen. I now decide to employ drainage by the introduction of an Indig rubber tube in the chest. Dr. Russell was again of not called in consultation, and a tube was introduced between the 8th and 9th ribs below the angle of the arrest About thin from t scapula, and allowed to remain. ounces of foul smelling pus escaped on the contin introduction of the tube, and on the following difference in the following difference about as much more was withdrawn. The tube walso su introduced by means of a trocar and canula—the out rubber tube having been selected to fit exactly this tro canula through which it was slipped after wwith lo trocar was withdrawn. The tube used was about tharyn fourteen inches in length, two inches of it bein covered within the chest. It was prevented from slipping out by tying a string around it close to the che sufficiently firm to prevent slipping, and making . This secure by strips of adhesive plaster. The tubbleaches

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was tied at the extremity, coiled up and retained adhesive plaster after use. in situ also by Through this tube the pus was withdrawn and the cavity washed out once every day with a lotion containing carbolic acid and tincture of iodine* in the proportion of half an ounce of each to the pint of warm water, a combination which had been so successfully employed in the former case. process was accomplished by means of a Da.idson's syringe attached to the extremity of the tube. Under this treatment the formation of pus rapidly diminished, the lung began to expand, and great hopes were entertained of his speedy recovery. The internal treatment consisted of tonics of quinine, iron, and strychnine, together with syrup of the iodide of iron, cod-liver oil, and suitable diet. A few days after the tube was inserted, diarrhoa set in, and continued with more or less severity until his death, which took place on the 13th of August. The diarrhoa was preceded by tender ness in the iliac regions, and was attended more especially towards the close wit discharges of pus, no doubt from extensive ulceration of Peyer's There was no hemorrhage. glands. charges from the bowels were also very offensive. The condition of the chest after the introduction of the tube was, on the whole, very satisfactory, and but for this untoward complication the patient would in all probability have made a good recovery. One strange feature in the case was the uniform character of the pulse, which varied very slightly during the whole progress of the case never reaching higher than 120—generally about 12-15. He was also able to take a large amount of nourishmemt for a person in his condition. Every known means was resorted to, in order to arrest the diarrhoa, but without avail. It seemed t think from the very outset to be beyond control, and its continuance produced great emaciation. He was ving direduced to a mere skeleton before his death. He tube walso suffered very much from dysuria, especially at ula—the outset of the diarrhœa, and near the close of actly his trouble the throat became extensively ulcerated, fter with loss of voice. The posterior surface of the as abo pharynx, the fauces, and the soft palate were it bein covered with superficial greyish ulcers. Tincture of iodine was applied to the throat every second ie che day, supplemented by a wash of liq. sodæ,

chlorinatæ in the interim, with marked benefit. There was no post mortem examination.

REMARKS.—The plan of treatment adopted in this case and in the one previously reported, has many advantages over the ordinary drainage tube. The tube is very easily introduced, and fits the opening so tightly, during the first few days, that it can be made entirely to exclude the air from the chest, during a most critical period. accomplished by allowing the pus to flow under water, and after a sufficient quantity has been removed, the extremity of the tube is tied firmly, coiled up, and retained in situ by strips of adhesive plaster. The whole of the pus need not, and should not be removed at once. If any signs of faintness occur during the withdrawal of the fluid, the tube can be tied and further removal discontinued until the next day, or next again. The tube becomes loose in the chest, and air passes in by the side of it, but not until the lapse of several days, when the greatest danger is passed. To the extremity of the tube a Davidson syringe* can be easily attached, and will be found indispensable in emptying the chest of contained pus, or of pumping in fluid for the purpose of washing out or disinfecting the cavity. In both these cases this apparatus was used for removing the accumulated pus from day to day, and for the subsequent washing out of the chest, with the carbolated iodine lotion.

Correspondence.

THE MEDICAL PROFESSION IN MICHI-GAN.

To the Editor of the CANADA LANCET.

Sir,—A few years ago quite a number of medical men of Ontario were opposed to the best medical law the world has ever seen, notwithstanding, perhaps, some little imperfections, which will be remedied in due time. I believe, however, the number of croakers at present is insignificant, yet there are a few still left to harp on the injustice of fees, taxes and the general tyranny of the Council. I wish one or two of this class could be prevailed

naking . This lotion is perfectly transparent; the carbolic acid bleaches the tincture of iodine.

^{*} A Davidson's syringe can be made to take the place of an aspirator by connecting an aspirator needle to its extremity by a piece of rubber tubing. If the syringe is filled with water before the needle is introduced and the delivery tube kept under water while the fluid is being drawn off, no air can possibly enter.

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upon to cross the borders into one of the States where exists unrestricted liberty or free trade, in all matters medical. I am convinced the worst of such croakers would be cured of his malady by a tour into Michigan, for example, extending over so short a time as four weeks. Should any of these sore-heads see fit to act upon my suggestion, I would recommend him to invite Mr. Gordon Brown of the Globe to join him on his tour of observation.

Business, of a non-professional character, demanded my attention recently in Michigan, where I remained for a few months. I improved the time as much as possible by inquiring into the state of society, more especially as regards education and the professions. The common school system is not as good as ours was twenty years ago. There is no regular standard of qualification for Any one may be a superintendent, and teachers. is elected on town meeting day as are our Council-Such superintendents, often illiterate men. are the examiners of candidates for school certifi-The schools are not open more than twothirds of the year. Male teachers are employed in winter and a female in summer. A poor highschool they call a college, and from such places issue forth yearly a host of "graduates."

As a class, the lawyers are ignorant and unrefined, although the law requires an examination on entering the profession—such examination being limited to a knowledge of law, time and education being counted only-and is conducted in open court by a circuit judge. It is strange that this should be the case when no such test is applied in medicine. But if we look at home, we shall find, that amongst those who advocate free trade in medicine, not one has demanded free trade in law. Which is the most valuable, a man's property, or his life?

As might be expected in a country enjoying free trade in medical practice, the State is overrun by quacks, both regular and To one educated practitioner there are at least six or seven who can lay no claim to being educated. I know of one beautiful town of two thousand inhabitants situated in the midst of a rich agricultural country, and far from competition, which has six quacks and only one educated doctor. ratio will stand good all over the State. Many of these quacks have some kind of diploma obtained

and are loud in the denunciation of quackery. Bill after all they are very little above the ordinary quack in their education, their manners and their The larger number, however, have no practice qualifications for the profession further than the brazen-facedness so essential to the successful Nothing strikes the Canadian mon charlatan. forcibly than the uncouthness, general shabbiness an the transparent lack of dignity and all refinement in the class of men, taken as a whole, addressed " doctor." In Canada, a hod-carrier would ashamed to go "down town" in the garb in which I have often seen these "professional" gentleme go about on the streets.

The majority of these men are of low task and habits, and would disgrace any calling. being their only motive power, they do not scrup to resort to any trick, or crime I may add, th will promote their ends. Just fancy the anno ances the six quacks above mentioned can dai bring to bear on the life of the one educated at refined practitioner with whom they are in comp tition. This gentleman would give half a year income, besides a liberal annual tax to get rid his tormentors. Think of that, ye croakers Ontario. All the educated practitioners with who I came in contact would joyfully make any reas able material sacrifice to have the Ontario Medi Act transcribed on the Michigan statute book.

However desirous the medical schools may of elevating the standard of professional edu tion they are unable to do so. Our own past perience teaches us that most young men will t the nearest cut. If the schools were to requir long course they might as well close their do The result is that the vast majority of reg graduates are far below the average standard Ontario. Nor can there be a change before laws set a premium on education and practraining, as is the case in our own coun There is a re-action going on all over the Unio reference to this matter. A few of the States enacted laws restricting medical practice, but process will be a slow one at best, and the fits will come tardily even where such laws It will take a long time to educate the people to the necessity of enforcing such laws, how much they may approve of them in theory. the bars are down it is hard to put them up a in Indiana or elsewhere, and claim to be regulars, We Canadians should draw from this a useful

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son. As medical men, we should value the inestimable privileges conferred upon us by the State, and manifest our gratitude by, not only respecting our special laws, but also by uniting to make them more effective for the accomplishment of the good and worthy ends for which they were enacted.

The fact that here and there a quack may be found plying his vocation, is but a weak argument against our laws. The man who so contravenes the law is a law-breaker, and his vocation is thereby made so odious that but few will follow his example. • A few more short years and the quack will for ever disappear.

The people, even more than medical men, are interested in this question. It is appalling to think of the amount of suffering, physical and mental, daily superinduced or prolonged by the hundreds of quacks who prey on the sick and suf fering in the state of Michigan alone. I will give one illustration. A medical friend asked me to ride with him to see an elderly lady said to be suffering from ovarian tumor. We found her in bed. She stated that she had suffered for eight years, from what the seven or eight physicians whom she had consulted in that time, called ovarian tumor. She informed us she had been recently treated by wo physicians, one of them from a city some fisteen miles distant. They told her that an operation would be necessary—of course they had no dea of operating, that was a mere blind, and that in any event her case was extremely floubtful. After listening to this history, we proceeded to take the dimensions of the tumor, but a most diligent search failed to reveal either its size or location. In short, there was no tumor at all. nor had there ever been. The woman suffered from chronic congestion of the kidneys, and was peedily relieved by suitable treatment. Who can estimate the amount of mental suffering endured by this woman during the long eight years she believed herself to be the victim of an incurable and atal disease? This is the unhappy condition of a people enjoying, what some amongst us would gall, the blessing of free trade in medicine.

the people are held in high esteem, their superiority being aws, how treely acknowledged. As a consequence, all worthy neory. Canadian practitioners locating there, are in imnem up as a useful as a

munerative employment. The compliment thus paid to Canadian talent and Canadian institutions, was to me a source of much pride and gratification. Canadian practitioners are to be found all over the State, and there is room for hundreds more. Most of the medical talent of the State is concentrated in the larger centres of population, while pleasant villages and beautiful country places are left the almost undisputed preserves of the charlatans.

OBSERVER.

October 13th, 1877.

Selected Articles.

THE DOCTRINE OF CONTAGIUM VIVUM AND ITS APPLICATIONS TO MEDICINE.*

Gentlemen,—The notion that contagious diseases are produced by minute organisms has prevailed in a vague way from a remote age; but it is only within the last twenty years—since the publication of Pasteur's researches on fermentation and putrefaction—that it has assumed the position of a serious pathological doctrine. In the last decade startling discoveries of organisms in the blood have given this doctrine the support of actual observation; and its application as a guide in the treatment of wounds by Professor Lister has made it a subject of universal interest to medical practitioners

The resemblance between a contagious fever and the action of yeast in fermentation—or the action of bacteria in decomposition—is in many points so striking that it is difficult to avoid the impression that there is some real analogy between them. If, for example, we compare the action of yeast with the small-pox, this resemblance comes out very distinctly, as the following experiment will show. I filled two pint bottles, A and B with fresh saccharine urine, and inserted a delicate thermometer in each. A was inoculated, with a minute quantity of yeast, but nothing was added to B. Both bottles were then placed in a warm place in my room, at a temperature of about 70° Fahr. In order to get a correct standard of temperature for comparison, I placed beside these a third bottle, c, filled with water, and inserted a delicate thermometer in it. All these bottles were carefully swathed in cottonwadding, for the purpose of isolating their individual temperatures, and to obviate as much as possible the disturbing effects of the varying tempera-

^{*}Address in Medicine by W. Roberts, M. D., F. R. S. Manchester, delivered at the British Medical Association August 9th.

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ture of the room. For twelve hours no change took place; but at the end of this time A began to ferment, and the thermometer marked a distinct elevation of temperature. On the second day A was in full fermentation, and its temperature was 2.7 deg. above B and C. This disturbance continued for five days, the temperature ranging from two to three degrees above the companion bottles. The disturbance then subsided, and the temperature fell to an equality with B and c, and a considerable sediment, composed of yeast, settled at the bottom. In the meanwhile B showed little altera tion; but on the sixth day it began to ferment, the temperature went up, and for more than a week its thermometer stood about two degrees above A and c. Finally, the temperature in B declined, the disturbance subsided, and the newly-formed yeast settled to the bottom of the vessel.

The fever in a bottle resembled small-poxin the following points:—A period of incubation intervened between inoculation and the commencement of disturbance; then followed a period of disturbance accompanied by elevation of temperature; this was succeeded by a subsidence of the disturbance and a return to the normal state. Great multiplication of the infective material (or yeast) took place during the process, and after its conclusion the liquid was protected from further infection with the same contagium. We likewise notice that the contagium of termentation, like that of small-pox, may take effect either by direct purposive inoculation or by fortuitous infection through the atmosphere. In both cases the infective material has the power of preserving its activity for an indefinite period. The comparison fails in at least one important point-in the fermented urine sugar is replaced by alcohol and carbonic acid, but we are not aware that any pronounced chemical changes occur in the blood or tissues during the attack of small-pox. I would, moreover, carefully guard myself against being supposed to suggest that the enhanced temperature in the fermenting urine is a leal analogue of the preternatural heat of fever.

Let us direct your attention to another example — kind of partial decomposition or fermentation which takes place in boiled hav-infusion when it is inoculated with the Bacillus subtilis. The Bacillus subtilis is a very common bacterium, found in vegétable infusions and in curdling milk. I hope you will take note of this little organism; for I shall have to refer to it more than once in the course of this address. I took a flask containing hay-infusion which had been sterilised by boiling, and inoculated it with a drop of fluid swarming with Bacillus subtilis. After the lapse of twenty-four hours the previously transparent infusion became turbid. This turbidity increased, and on the second day a film or crust formed on the surface of the infusion. On the third and subsequent days, the crust broke tures which have been rendered sterile by a sum

In about a fortnight the turbidity passed away, and the origional transparency of the infusion was now a sediment consisting of the spores of the little or ganism at the bottom of the flask. In this case, again, there was the same succession of events—a period of incubation, followed by a period of disturbance, succeeded by a period of subsidence and, finally, restoration to the normal state. There was also great increase of the infective material and immunity from further attack by the same contagi

The yeast-plant and the Bacillus subtilis may be taken as representatives of a large class of organisms, in regard to which we are only beginning to realise their vast importance in the economy of Nature and in the life of man. They are as I shall presently show, the essential agents in all ferment tations, decompositions, and putrefactions. We may group them together, for the convenience of description, under the general designation of safe rophytes—a term intended to include, under on heading, all the organisms associated with the de composition and decay of organic matter. The yeast-plant and its allies, and all the numerous species and varieties of bacteria, belong to th group. In size and form, they are among the smallest and simplest of living things, but their vitage endowments are wonderful.

All the organisms hitherto found associated will infective inflamations and contagious fever belong to the tribe of bacteria, and we cannot advantage ously enter on a study of that association without knowledge of the origin and attributes of these of ganisms. This brings us into a field of active con troversy. It has been alleged, as you know, on high authority, that these organisms, under certain com ditions, depart entirely from the universal law generation, which is expressed in the aphoris omne vivum è vivo, and that they may arise spos taneously by a process of abiogenesis. alleged that these organisms are not the actual agents of decomposition, but are merely associated with that process as secondary or accidental accord paniments, I propose to lay before you evidence that both these allegations are unsustainable, and to prove that bacteria, like other organisms, and from pre-existing parent gems, and in no other was prote-and that they are the actual agents in all decorations position and putrefaction.

The first proposition I shall endeavour to estage lish is this: that organic matter has no inhere do no power of generating bacteria, and no inhere power of passing into decomposition.

I have placed before you samples of three st of preparation, out of a large number in my po session, which serve to substantiate this propo tion.

The first set consists of organic liquids and m up, and fell in pieces to the bottom of the vessel. ently prolonged application of the heat of boiling

water. able ar fish, a They : protect ton wo freely (and or as you though for sev

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have b unglaz include urine, As the which you. inches by ind the litt tillatic water, serted briski cotton clearir might away, sealed boilin flask i The : tobac tered. withi. draw flask. takes a suff move the p ised. the e: of a l Aflask -Cotto if due ation not e

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They are composed of infusions of vegetwater. able and animal substances, fragments of meat, fish, albumen, and vegetables floating in water. They are contained in oblong glass bulbs, and are protected from the dust of the air by a plug of cotthough most of them have been in my possession tion. for several years.

As these preparations were obtained by a method, bacteria and to become decomposed. the little flasks used by chemists for fractional distillation. The flask is first charged with distilled water, and then a tight plug of cotton-wool is inserted into its neck. The flask is next set a-boiling briskly over a lamp. The steam rushes through the cotton-wool plug and through the tobacco-pipe, clearing both these passages of any germs they away, the end of the tobacco-pipe is hermetically sealed with melted sealing-wax. After a little more boiling the flame is withdrawn, and the neck of the flask. The process of filtration is very slow: it takes two or three days to charge the flask. When a sufficiency has come over, the apparatus is removed and placed on a shelf for a few days, until the pressure inside and outside the flask is equalthe exit-tube is separated and sealed in the flame of a lamp. In this way you obtain a sterilised flask charged with the filtered organic liquid, and is no inherence do not appear in them, and decomposition does no inherence not ensue

cient to say that, by the use of proper precautions, it is possible to convey blood, pus, urine, ascitic fluid, pleuritic effusion, blister serum, or the contents of an egg into sterilised glass vessels without contact with any infecting agency. Preparations ton wool inserted into the necks of the bulbs, but thus obtained are exhibited in these flasks; they freely open to its gaseous elements, which pass in are protected from air-dust by a simple covering and out through the cotton-wool. They are all, of cotton-wool. All of them are absolutely free as you see, perfectly transparent and unchanged, from organisms and from any signs of decomposi-

What meaning can we attach to these prepara-The second set consists of organic liquids which tions? You all know that liquids and mixtures have been simply filtered under pressure through such as these speedily decompose, and swarm with unglazed earthenware into sterilised flasks. They organisms, when left to themselves exposed to the include acid and neutralised urine, albuminous air. They are of the most varied composition, urine, diluted blood, infusions of meat and of hay. and the most apt of all known substances to breed which is in some respects new, I will describe it to been exposed to the most favourable conditions in you. A piece of common tobacco-pipe, about six | regard to warmth, moisture, and air. Many of inches long, served as the filter. This was secured them have been in my possession several years, by india-rubber piping to the exit-tube of one of and all of them for several months, yet they are wholly barren and without sign of decomposition. I venture to say that these preparations substantiate in a most positive manner the proposition with which we started, namely, that organic matter has no inherent power of generating bacteria, and no inherent power of passing into decomposition.

A second proposition is likewise established by might contain. When the water has nearly boiled these preparations, namely, that bacteria are the actual agents of decomposition.

In all the preparations, the absence of bacteria coincides with the absence of decomposition. If flask is instantly closed with a tight vulcanite cork. I were to cause bacteria to appear in them, either The apparatus is now ready for action, and the by purposive infection or by exposing them to the tobacco pipe is immersed in the liquid to be fil- unfiltered air, decomposition would infallibly foltered. When the flask cools, a vacuum is created low. The filtration experiments supply a new and within it, and this serves as a soliciting force to telling argument on this point. Some of the liquids draw the liquid through the earthenware into the became decomposed and full of bacteria while the filtration was going on, but the part which came over into the flasks remained without further change, showing that decomposition cannot go on without the actual contact of the living organisms.

We have next to ask ourselves, What are the ised. The vulcanite cork is then withdrawn, and sources and what is the nature of the fecundating influence which causes organic liquids, when abandoned to themselves without protection, to become no other was protected from outside contamination by a plug of the answer is not doubtful. If I remove the covpeopled with organisms? In regard to their source, cotton-wool. Preparations obtained in this way, ering of cotton-wool from any of these preparaif due precautions have been used in the maniputions, and admit unfiltered air, or a few drops of dation, remain permanently unchanged; organisms any ordinary water, however pure, or anything that has been in contact with air or water, organisms make their appearance infallibly in a few hours. The third set of preparations are in some res- As to the nature of the infective agents, we can say pects the most significant of the three. They con- positively that they must consist of solid particles, sist of organic liquids which have been simply otherwise they could not be separated by filtration removed from the interior of the living body, and through cotton-wool and porous earthenware. Is transferred, without extraneous contamination, into it not a most natural inference that they are the purified glass vessels. I will not detain you with parent germs of the brood which springs up at the methods employed to obtain them; it is suffi- their impact? They are, however, so minute that

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we cannot identify them as such under the microscope; but Professor Tyndall has demonstrated that air which is optically pure—that is, air which is free from particles—has no fecundating power.

It is contended in some quarters that these particles are not living germs of any sort, but simply particles of albuminoid matter in a state of change which, when they fall into an organic liquid, communicate to it their own molecular movement, like particles of a soluble ferment, and so produce decomposition, which, in its turn, provides the conditions necessary for the abiogenic generation of bacteria. Filtration through porous earthenware furnishes a complete answer to this theory; for I found on trial that the soluble ferments passed with ease through the porous earthenware. If, therefore, this theory were true, the filtered liquids, if already commencing to be decomposed, would go on decomposing, and would develope bacteria after infiltration; but instead of that they remained unchanged and barren. We are absolutely driven to the conclusion that these particles are living terms: no other hypothesis squares in the least degree with the facts of the case.

* * * *

We now approach the more practical side of our subject—that which concerns us as practitioners of medicine and students of pathology. I have already directed your attention to the analogy between the action of an organized ferment and a contagious fever. The analogy is probably real, in so far, at least, that it leads us to the inference that contagium, like a ferment, is something that is alive. We know of nothing in all our experience that exhibits the phenomena of growth and self-propagation except a thing possessed of life.

This living something can only be one of two things; either it is an independent organism (a parasite) multiplying within the body or on its surface, or it is a morbid cell or mass of protoplasm detached from the diseased body and engrafted on the healthy body. Possibly, both these conceptions may have their application in the explanation of different types of infective diseases. In regard to the latter conception, however—the graft theory --- which has been so ably developed by my friend Dr. Ross, I will only say that it has not, as yet, emerged from the region of pure speculation. lacks an established instance or prototype; and it fails to account for the long enduring dormant vitality so characteristic of many contagia, which conforms so exactly with the persistent latent vitality of seeds or spores, but which contrasts strongly with the fugitive vitality of detached protoplasm.

If, then, the doctrine of a contagium vivum be true, we are almost forced to the conclusion that a contagium consists (at least, in the immense majority of cases) of an independent organism or parasite, and it is in this sense alone that I shall consider the doctrine.

It is no part of my purpose, even if I had the time, to give an account of the present state of knowledge on this question in regard to every contagious disease. My object is to establish the doc trine as a true doctrine—to produce evidence that it is undoubtedly true in regard to some infective inflammations and some contagious fevers. In an argument of this kind it is of capital importance to get hold of an authentic instance, because it is more than probable-looking to the general analogy between them—that all infective diseases conform in some fashion to one fundamental type. If septic bacteria are the cause of septicæmia—if the spirilla are the cause of relapsing fever-if the Bacillus anthracis is the cause of splenic fever-the inference is almost irresistible that other analogous organisms are the cause of other infective inflammations and of other specific fevers.

I shall confine my observations to the three diseases just named—septicæmia, relapsing fever, and splenic fever—merely remarking that, in regard to vaccinia, small-pox, sheep-pox, diphtherial erysipelas, and glanders, the virus of these has been proved to consist of minute particles having the character of micrococci; and that, in regard to typhus, scarle fever, measles, and the rest of the contagious fevers, their connection with pathogenic organisms is a yet a matter of pure inference.

SEPTICEMIA.—We will first inquire how it stands with this doctrine in regard to traumatic septicæmia and pyæmia. You are all aware that foul, ill-conditioned wounds are attended with severe, often fatal, symptoms, consisting essentially of fever of a remittent type, tending to run on the formation of embolic inflammations and secondary abscesses.

The notion that septicæmia is produced by back teria, and the *rationale* of the antiseptic treatment which is based thereupon, is founded on the following series of considerations.

1. It is known that decomposing animal substances-blood, muscle, and pus-develope at a early stage of the process a virulent poison, which when injected into the body of an animal, produce symptoms similar to those of clinical septicæmia This poison is evidently not itself an organism; it is soluble, or at least, diffusible in water, and it is capable, by appropriate means, of being separated from the decomposing liquid and its contained of ganisms. When thus isolated it behaves like any other chemical poison; its effects are proportion ate to the dose, and it has not the least power's self-multiplication in the body. To this substant Dr. Burdon-Sanderson has given the appropriate name of pyrogen. It is the only known substance which produces a simple uncomplicated paroxys of fever-beginning with a rigor, followed by rise of temperature, and ending, if the dose be no too large, in defervescence and recovery.

2. We know further, from the evidence I have laid before you, that decomposition cannot take

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place without bacteria, and that bacteria are never produced spontaneously, but originate invariably from germs derived from the surrounding media. We are warranted by analogy in regarding pyrogen. as the product of a special fermentation taking place in decomposing albuminoid mixtures, but we cannot name the particular organism nor the particular albuminoid compound which are mutually engaged in the process.

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3. In the third place, we know that when a wound becomes unhealthy, as surgeons term it, the discharges become offensive-in other words, decomposed-and when examined under the microscope they are found to swarm with organisms resembling those found in all decomposing fluids. fers from the train of symptoms which we call septicæmia.

It is a natural inference that what takes place in ! decomposing blood or muscle in the laboratory takes place also in the serous discharges and dead tissues of the wound. These become infected. from the surrounding air, or from the water used fin the dressings, with septic organisms; on that follows decomposition and the production of the septic poison, or pyrogen; the poison is absorbed into the blood, and septicæmia ensues.

It was the distinguished merit of Lister to perceive that these considerations pointed to a means of preventing septicæmia. He argued that if you could prevent the access of septic organisms to the wound, or destroy them there, you would prevent decomposition, prevent the production of the septic poison, and thus obviate the danger of septicamia. It is not within the scope of this address to describe the means by which Lister attained this object, still less to pass judgment on his practice, but I may be permitted to express my belief that the principle on which the treatment is founded is unassailable.

We should probably differ less about the antiseptic treatment if we took a broader view of its principle. We are apt to confound the principle of the treatment with Lister's method of carrying it out. The essence of the principle, it appears to me, is not exactly to protect the wound from the septic organisms, but to defend the patient against the septic poison. Defined in this way, I believe that every successful method of treating wounds will be found to conform to the antiseptic principle, and that herein lies the secret of the favourable results of modes of treatment which at first sight appear to be in contradiction to the antiseptic principle. Take, for example, the open method of treating wounds which is sometimes compared in its results with Lister's method. What is this treatment but another way (only less ideally perfect than Lister's) of defending the patient against the septic poison? Because, if the surgeon succeeds in providing such free exit for the discharges that the healthy blood and healthy tissues. (a) athere is no lodgment of them in the wound, either

they pass out of it before there is time for the production of the septic poison, or if any be produced, it escapes so quickly that there is not enough absorbed to provoke an appreciable toxic effect.

Before we can understand the pathology of septicamia we must have clear ideas on the relation of septic bacteria to our bodies. We see in old laboratories that dead animal tissues, when exposed to ordinary air or ordinary water, invariably breed septic organisms; in other words contact of the septic germs with the dead tissues never fails to produce successful septic inoculation. But it is quite otherwise with the same tissues when alive and forming part of our bodies. You cannot successfully inoculate the healthy tissues with septic Meanwhile the patient becomes feverish, and suf-bacteria. It has been proved over and over again that these organisms, when separated from the decomposing medium in which they grow, can be injected in quantity into the blood or tissues of a healthy animal, or applied to a sore on its skin, without producing the least effect. The healthy living tissues are an unsuitable soil for them; they cannot grow in it; or, to put it in another way, ordinary septic bacteria are not parasitic on the living tissues.

This fact is of fundamental importance in the discussion of the pathology of septicæmia. We have a familiar illustration of its truth in the now common practice of subcutaneous injection. Every time you make a subcutaneous injection you inject septic germs into the tissues. I had the curiosity to test this point with the morphia solution used for this purpose in the Manchester Infirmary. I injected five drops of this solution into four flasks of sterilised beef-tea which had remained unchanged in my room for several months, taking care to avoid any other source of contamination. In forty-eight hours they were all in full putrefaction. But we know that no such effect follows when similar injections are made into the bodies of our patients.

It seems also probable that septic organisms enter constantly into our bodies with the air we breathe and the food we take; they pass, presumably, like any other minute particles, through the open mouths of the lymphatics and lacteals, and penetrate some distance into these channels; they certainly come in contact with the accidental cuts. sores, and scratches which so often bedeck our skins. Notwithstanding all this, our bodies do not decompose; indeed, if ordinary septic organisms could breed in the living tissues as they do in the same tissues when dead, animal life would be impossible, every living creature would infallibly How these organisms are disposed of when they do enter our bodies accidentally, as it were, in the various ways I have suggested, we cannot say; we can only suppose that they must speedily perish, for we find no traces of them in

Bearing in mind, then, that ordinary septic or-

least, they are reduced to near the moribund state; bearing also in mind that there is a sharp distinction to be drawn between the septic poison and the organisms which generate it, we are in a better position to consider the course of events in a wound, which leads on to septicæmia and pyæmia. What probably takes place is this: An unprotected wound receives infection from the septic organisms of the surrounding media. If the discharges are retained in the sinuosities of the wound, decomposition of them sets in with production of the septic poison. This is absorbed into the blood, a toxic effect follows and septicæmia is established. As this effect increases with the continuous absorption of the poison, the vitality of the system is progressively lowered, and especially the vitality of the tissues bordering the wound, which may be topically affected by the pois n which percolates through them. These tissues at length become moribund or die outright; the septic organisms then invade and breed in them, more septic poison is produced and absorbed; the toxemia becomes intense, embolic centres of inflammation and suppuration are formed and the end comes. In all this history there is no necessity to assume, or even a probability, that septic organisms invade, or at least multiply in, the They may do so at the near approach of death, but scarcely before that period.

In the course of traumatic septicæmia there sometimes occurs an event of great importance which imparts a new feature to the disease; I mean infectiveness. How this arises is a rutter of speculation. To me it appears probable that, under a certain condition of occurrence of conditions in and about the wound, medification takes place in the vital endowments of the septic organism, whereby is acquires a parastic habit, which enables it to breed in tissues of degraded vitality or even in the healthy tissues, and in this way to produce the infective endemic pyæmia which we sometimes witness in the wards of our large hospitals.† I shall develop this idea more fully bye and bye.

Before leaving the subject of septicæmia, I may allude to the possibility of wounds being infected with septic organisms from within. As a rare occurrence, I am inclined to think that this is possible, and that it may account for the occasional alleged infection of protected wounds. From an observation by Chauvea, it may be inferred that septic organisms, when injected directly into the blood, are able to survive for two or three days, although unable to breed there. ‡ It is conceivable that oc-

ganisms cannot breed in living tissues, unless, at least, they are reduced to near the moribund state; bearing also in mind that there is a sharp distinction to be drawn between the septic poison and the organisms which generate it, we are in a better position to consider the course of events in a wound, which leads on to septicæmia and pyæmia. What probably takes place is this: An unprotected wound receives infection from the septic organisms of the

RELAPSING FEVER.—In 1872, Dr. Obermeier, of Berlin, discovered minute spiral organisms (spirilla) in the blood of patients suffering from relapsing fever, This discovery has been fully confirmed by subsequent observations. The organisms are found during the paroxysms; they disappear at the crisis; and are absent during the apyrexist periods.

The drawings represent the various appearance presented by these little parasites. They consist of spiral fibrils of the most extreme tenuity, vary ing in length from two to six times the breadth of a blood corpuscle. In the fresh state they move about actively in the blood. They have not been detected in any of the fluids or secretions of the body except the blood, nor in any other disease than relapsing fever. In form and botanical cha racters they are almost identical with the Spirochatt plicatilis of Ehrenberg, (Spiritlum of Dujardin), species of bacteria found in dirty water and occasionally in the mucus of the mouth. Cohn design nated the variety found in the blood S. Obermein! in honour of its discoverer.

In the beginning of the current year, Dr. Herdenreich (e) of St. Petersburg, published an elaborate monograph on this subject, which, I think goes far to reconcile the conflicting statements and opinions put forth by previous writers in regard the connection of the spirilla with relapsing fever It is based on forty-six cases; these cases were studied with the most minute care; the blood was examined, and the temperature observed from two to six times each day. Altogether, over a thousand examinations of the blood were made.

Relapsing fever still prevails extensively in cer tain districts of Germany and Russia, but it is a most a forgotten disease in this country; and pro bably the majority of those in this room have never seen a case. It will, therefore, not be amis if I remind my hearers, and myself, of its principal features. It is a contagious epidemic fever, characteristics. terized by a sharp paroxysm of pyrexia, which last about a week, and ends with a severe critical sweating. This is succeeded by an intermission also of about a week, during which the patient; apyrexial; then follows a second paroxysm, or 16 lapse, which lasts four or five days, and ends, before, in a critical sweating. Recovery usually follows the second paroxysm, but not unfrequent a third paroxysm occurs, and sometimes a fourth

The paroxysms are occasionally broken by

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[†] Such a modification or "variation" might be correlated with a modification of the ferment action, whereby a more virulent septic poison is produced. Would not such a view explain the sudden intensification of the infecting vitas which was found by Chauveau and Dr. Sanderson in their experiments on infective inflammation?

[‡] Comptes Rendus, 1873, p. 1092.

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are sometimes interrupted by slight temporary rises of temperature.

Bearing these charactersistics in mind, we shall be able to understand the significance of Heydenreich's observations. He found that every rise of temperature, whether that of the true paroxysm, or that following a pseudo-crisis, or those occurring during the intermissions, was invariably preceded by the appearance of spirilla in the blood. disappeared shortly before the crises, and remained absent during the deferescence and the subsequent apyrexial periods. During the whole of the main paroxysms spirilla were usually to be found in the blood, but their number varied in the most puzzling manner from day to day. One day they were abundant, the next day they were scanty, and the day after they were again abundant; they even varied at different hours of the same day; some times they vanished altogether for a time, and then reappeared in vast numbers a few hours later. Throughout these variations the temperature remained steadil; high, or with only slight and moderate oscillations.

These discrepancies had been observed by previous inquirers, and had led some to doubt, whether the spirilla had anything to do with the virus of relansing fever; but a happy idea suggested itself to Hydenreich which seems capable of explaining them.

He found that when a little blood containing spirilla was abstracted from the patient and kept at the ordinary temperature of the room, the organisms lived in it for several days; but if the blood was placed in an incubator and maintained at the normal temperature of the body, they died in from twelve to twenty hours, and if the temperature was still shorter; they only survived from four to during the main paroxysm, not one, but several sucwould overlap each other more or less, the new by Davaine and other inquirers in France. brood making its appearance before the last surviperished before the new brood reached maturity; glands, and in some other tissues. vent of a transient rise of temperature from the re- search.

missions or pseudo-crises; and the apprexial periods appearance of spirilla in the blood, although at the time the patient presented no other indication of what was about to happen.

If these observations are to be relied on—and they appear to have been made with the most scrupulous care—we are led to the conclusion that the spirilla are the actual virus of relapsing fever.

The same conclusion is also strongly indicated by the results of inoculation experiments. Relapsing fever is easily communicated to a healthy person by inoculation with the blood of a patient suffering from the disease. Experiments made in Russia on individuals who voluntarily submitted themselves to this practice, show that the blood is only infective during the paroxysms, but not at the crises or during the apyrexial periods. None of the fluids or secretions of the body except the blood are infective. All this shows that the virus is intimately associated with the spirilla, and is absent or present in exactly the same circumstances as the latter.

The occasionally observed vanishing and re-appearance of the spirilla during the paroxysms, without a possibility of new infection, seems to indicate that when the spirilla disappear they leave behind them something in the nature of seed or spores, from which the new brood spring forth. Ocular evidence of such germs is, however, still Several observers have noticed minute particles in the blood of relapsing fever which might pass for spores, and Heydenreich observed that some of the spirilla had a dotted appearance. But hitherto all efforts to cultivate the spores out of the body have failed, and their power of developing spores is more an inference than a demonstration.

SPLENIC FOVER.—The first trustworthy observation of the presence of organic forms in the inkept up to fever heat (104 deg. F.) their life was fective disease was made in splenic fever. This formidable disorder attacks sheep, cows, and twelve hours. This led him to the conjecture that horses, and is not unfrequently fatal to man. In 1855, Pollender discovered minute staff-shaped cessive generations of spirilla were born and died bacteria in the blood of splenic fever. This disbefore their final disappearance at the crisis. He covery was confirmed in a very extensive series of surmised that in the usual course, the broods researches by Brauell, and has been corroborated

The bacterium of splenic fever is a short, straight, vors of the old brood had passed away. This ex- motionless rod, about as long as the breadth of a plained the variable number of spirilla found on blood-corpuscle, and so far as is known, it exists different days and different hours of the same day. in no other form in the living body. It is found, Sometimes the old brood would have altogether besides the blood, in the spleen, in the lymphatic That this this explained the occasional temporary absence of organism is the true virus of splenic fever, has long spirilla from the blood; it also explained the re- been probable: and the labours of Davaine, Bolmissions of pseudo-crises sometimes observed in the linger, Tiegel, Klebs, and, most of all, of Koch, course of the paroxysms. So precise was the cor- have removed the last doubts on the subject. The respondence found to be between the appearance work done by Koch is not only valuable as a of the spirilla and a subsequent rise of temperature, triumphant demonstration of a disputed pathologithat Heydenreich was able to predict with certainty, |cal question, but is noteworthy as a model of during the apprexial periods, the approaching ad patient, ingenious, and exact pathological re18817

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We have come across an example of scientific which is worth notice. It had been remarked by several observers that the contagium of splenic fever, as it existed in the blood, was comparatively short-lived and fugitive, but that, under some unexplained circumstances, the contagium was very persistent, and lurked for years in stables, and Sanderson, writing in 1874, inferred from the cirof the perishable bacteria found in the blood and some other more permanent form, like seeds or spores, in which they were capable of surviving for an indefinite period. In like manner, Professor Cohn, guided by the botanical characters of the rods found in the blood, classed them in that group of bacteria name by him Bacillus; and as he had inferred that the Bacillus anthracis—for so he named the bacterium of splenic fever—would also be found to produce spores. These previsions were proved by the researches of Koch to be per- and scarlet fever, it might be said that the variafectly exact.

The laws of variation seems to apply in a curiously exact manner to many of the phenomena of contagious diseases. One of these laws is the tendency of a variation, once produced, to become permanent and to be transmitted ever after with perfect exactness from parent to offspring; another and controlling law is the tendency of a parents of many of our cultivated flowers and vegevariation, after persisting a certain time, to revert tables have disappeared, leaving behind them only once more (under altered conditions) to the original | their altered descendants. The sporting of the nectarine from the peach is known to many horticulturists. A peachtree, after producing thousands and thousands of hybrid forms and subqarieties of eruptive and peach-buds, will, as a rare event and at rare intervals, produce a bud and branch which ever after bear only nectarines; and, conversely, a nectarine at long intervals, and as a rare event, will produce ables us—if it does nothing else—to have coherent a branch which bears only peaches ever after. ideas about the origin and the spread of zymotic Does not this remind us of the occasional apparent diseases. sporting of diphtheria from scarlet fever? My friend Dr. Ransome, who has paid so much at-lisms-or pathophytes, as they might be termed-to tention to the laws governing the spread of epidemics, relates the following instance:—A general outbreak of scarlet fever occurred at a large public school. One of the masters who took the infection exhibited diphtheritic patches on the throat. This patient was sent to his own home in Bowdon. Six days after his arrival, his mother was attacked, not with scarlet fever, but with diptheria; though to assume the parasitic habit, and the possession there were no cases of diptheria at the time, by some of them of a special ferment action. Both neither at the school nor in Bowden. (a)

Take another illustration: cholera suddenly prescience on the part of two distinguished men breaks out in some remote district in India, and spreads from that centre over half the globe. In three or four seasons the epidemic dies away and ceases altogether from among men. A few years later it reappears and spreads again, and disappears as before. Does not this look as if the cholera virus were an occasional sport from some other places where cattle were kept. Dr. Burdon | Indian saprophyte, which by variation has acquired a parasitic habit, and, having run through countcumstance that the organisms of splenic fevers less generations, either dies out or reverts again to must have two states of existence; namely, that its original type? Similarly, typhoid fever night be explained as due to a variation from some conmon saprophyte of our stagnant pools or sewers, which, under certain conditions of its own surrounding, or certain conditions within the humanbody, acquires a parasitic habit. Having acquired this habit, it becomes a contagious virus, which is transmitted with its new habit through a certain observed that all the Bacilli produced spores, he number of generations; but finally, these conditions ceasing, it reverts again to its original nonparasitic type.

> In regard to some contagia, such as small-pox tion was a very rare one, but also a very permanent one, with little or no tendency to reversion: while others, like erysipelas and typhoid fever, were frequent sports, with a more decided tendency to reversion to the original type. In regard to some pathogenic organisms, it might be assumed that the parent type had disappeared, and the parasitic variety only remained-just as the wild

How aptly, too, this view explains what used to be called the "Epidemic Constitution," and the other fevers.

I must not pursue this vein further. I have said enough to indicate that this conception en-

In applying the doctrine of pathogenic organthe explanation of the phenomena of infective diseases, we must be on our guard against hard-and-fast lines of interpretation. So far as our very limited knowledge now extends, the pathophytes hitherto discovered all belong to that group of the fungi which are called bacteria. Now, fungi have two marked characteristics, namely, the tendency these characteristics may bear a part in the action of pathogenic organisms. In the complex phe nomena of septicæmia such would appear to be the case—a poisonous ferment-product first intox selves prey upon the dead or moribund tissues

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⁽a) Complex cases of mingled scarlet fever and diphtheria are sometimes seen. Similarly the peach-tree will occasionally, among a multitude of ordinary fruit, produce one fruit of which one-half has the peach character and the other half cates the system, and then the organisms then he nectarine character.—DARWIN.

⁽a) Abstr tion, (Brit. 1877.

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There is, as Dr. B. Sanderson has pointed out, a marked distinction to be drawn between those common processes of infective inflammation which are shared in by animals generally-such as septopyæmia, erysipelas, and the diphtheritic processand those specific contagia which are strictly confined, like ordinary parasites, to particular species. There is nothing in all nature more wonderful than the intimate and subtle nexus which unites a parasite to its host. A hundred examples might be given. Even different varieties or races of the same species have different and exclusive parasites. It would seem as if this nexus depended on some delicate shade—a nuance—something like an odour, or a sayour, or a colour, rather than on differences of structure or chemical composition. The same minute correlation is seen in specific contagia—all are strictly confined to one or a few species. Vaccinia is confined to man, the horse, and the cow; scarlet fever is confined to man, and perhaps the swine; most of our specific diseases are absolutely confined to man. The human and bovine small pox, although so wonderfully similar, are not intercommunicable. I am, therefore, inclined to believe that, in regard to specific contagia, we shall find more guiding analogies in parasitism than in fermentation. Our information at present is, however, so defective that it is not wise to enter into further speculations on this subject.

Gentlemen, I have brought my task to a conclusion. I believe that the doctrine of a contagium vivum is established on a soild foundation; and that the principle it involves, if firmly grasped in capable hands, will prove a powerful instrument of future discoveries. And let no man doubt that such discoveries will lead to incalculable benefits to the human race: our business in life is to do battle with disease, and we may rest assured that the more we know of our enemy the more successfully we shall be able to combat him.—Medical Press and Circular.

SURGERY PAST AND PRESENT. (a)

BY T. SPENCER WELLS, F.R.C.S.E.

The author commenced his address by tracing the progress of the science from the Elizabethan age to the present time. He contended that the science of surgery had in the period mentioned advanced as much as any other art or science; great as those advances had been, and considering how the advances might be further carried on, he drew attention to the subject of anæsthesia and anæsthetics. He reminded his hearers of the anæsthetics at present in vogue, and remarked

that in 1872 he made known his opinion that all the advantages of anæsthesia, with fewer drawbacks, could be obtained by the use of bichloride of methyline or chloromethyl than by any other known anæsthetic. It was the result of an experience of five years and of 350 serious operations. The experience of the five succeeding years, with more than 600 additional cases of ovariotomy, and many other cases of surgical operation, had fully confirmed him in that belief. Perhaps they were hardly aware how much the public expected from them in this matter. Deaths from chloroform were alarmingly frequent, yet no substitute for it had found universal or even general acceptance in this country; and he was not speaking too strongly if he said it was the duty of the Association at once, without any unnecessary delay, to satisfy the public that all that was possible was being done to discover the means by which anæsthesia, effectual now, might be rendered safe for the future. A certain section of the community, well meaning it might be, but led astray by thoughtless enthusiasts or self-interested itinerant lecturers, vehemently asserted that if medical men were to perfect themselves in these or in other modes of saving human life or lessening human suffering, they must only do so by practice upon the human subject; they must not, as a surgeon or a physiologist, take the life of a dog or a cat, a rabbit or a sheep, a pigeon or a frog, for any scientific purpose, or with the object of benefitting the human race. Anybody might slaughter oxen and sheep by thousands for human food in any way he pleased, oysters might be eaten alive—the pheasant or the partriage, the fox or the deer might be expressely reared to supply the sportsman with exercise or the amusement of killing; in a word, the lower animals might be devoted to the use of man for any purpose that was not scientific. But if a surgeon experimentally sacrificed half a dozen dogs or rabbits in the hope of improving some operation which might prevent the loss of human life or lessen human suffering, he was branded as inhuman, and barely escaped the supervision of the police. Possibly some of those benevolent individuals would voluntarily offer up themselves to the committee on transfusion, in the hope of perfecting the practice. Until they did so, they would perhaps be a little less clamorous if a few sheep or rabbits were used in the cause of humanity. With regard to splenotomy, pancreotomy, and nephrotomy, accident had proved that the spleen, or the pancreas, or a kidney might be lost without great injury to the human being. Surgeons had removed wounded pancreas and enlarged spleens, and a diseased kidney had been extirpated on two occasions at least, but the operative proceedings were still imperfect. Were surgeons to be allowed to excise the spleen or a kidney of a dog or a rat, or would zealous members of some anti-vivisection society enrol themselves as candi-

⁽a) Abstract of an address delivered in the Surgical Section, (Brit. Med. Association), at Manchester. August 9th, 1877.

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dates for that immortality which was gained by anyone who immolated himself upon the altar of science? It would be false modesty if he were not to say boldly before the Association that he was proud of the share which British surgeons had had, and of the share which he himself had had in placing ovariotomy upon the roll of successful surgical operations. Great leaders among them, Simpson and Syme, Stromeyer and Billroth, Velpeau and Nélaton, had shown a generous appreciation of their work. And could they imagine a greater pleasure to a surgeon than to hear the president of the Medical and Chirurgical Society speak of his improvements in the operation of 1850, Lawrence had asked whether this operation trust to the future. lives of European women.

morality is outraged." When German princes' of members of their profession into royal and noble families, and look with more hope for recog- | Press & Circular. nition by the Government of services rendered by medicine and surgery to the nation. They would not then have to notice anything so disheartening to a learned profession as the fact, that while for the affair of Magdala Lord Napier was honoured by a title and rewarded with a pension, the extended average duration of life of the whole population, and its actual increase, due to sanitary and medical science, and far exceeding in importance the annexation of a province, or even of a kingdom, had earned for Simon the barren right, shared by many less honourably known men, of putting the magic letters C.B. after his name, and William Farr still remained without any mark of national gratitude. Why should a baronetcy be the highest titular distinction conferred upon members of their profession? Was Jenner or Paget less worthy of la drastics, emmenagogues, emetics or opiates.

a life-peerage than anyone of the eminent men who now sit on the bench of bishops -or any of the lawyers, soldiers, or sailors who had been rewarded by hereditary peerage? None of their leaders had time for electioneering or the turmoil of party struggles in the House of Commons; whereas many of them were well fitted for the more dignified position, and would be quite able to devote their time and energy to sanitary legislation in the Senate.

If, in the 40 years since the Association was

founded, the great progress which he had so has-

tily and imperfectly endeavoured to review had been made, what might they not augur for it in ovariotomy as "one of the greatest achievements years to come? The Association had its early of surgery in this century, and the influence for struggles, and had passed through them. The good extended through every department of oper-history of the past and the study of the present, ative surgery?" While at the same ociety in alike helped them to look forward with hope and He further urged the import-"can be encouraged or continued without danger ance, or rather the absolute necessity, that the surto the character of the profession?" less than a geons of the future must be educated gentlemen; quarter of a century after that denunciation Lord that schemes of education should be so ordered as Selborne publicly stated the result of a calculation, to bring into the profession, as far as possible that by his (Mr. Wells's) first 50c operations he young men who had had the advantage of the had added something like 10,000 years to the highest general culture to be obtained by any English education. Until this was secured the What number of operations had been done by flower of the University youth would still choose other surgeons he knew not, but supposing that the church or the bar, the army or the navy, or the same probability of the duration of life applied some branch of the Civil Service of the State, to the women who have recovered from operations where they at once took an enviable social position he had done since the results of his 500 cases were as members of an honourable profession, and, published in 1872, the gain would be about 18,000 where a successful career might lead to a seat in years, and this by one surgeon alone, and by an the House of Lords, to the pensions and tithes operation which only thirty years ago was defreely granted to the fortunate soldier or sailor, nounced as so fearful "in its nature, often so and more sparingly, to the meritorious Civil serimmediately fatal in its results," that, whenever vant of the Crown. It was rather surprising that performed, "a fundamental principle of med all without any of those inducements, and in spite of the taint of trade forced upon the profession by practise surgery, and a brother of an English Earl, the powers of the Apothecavies' Company, and its, a Cabinet Minister, was met with as a practising continued alliance with their colleges and univerphysician, they might think less of the admission sities, they still had abundant evidence of a rapid rise of the profession in the social scale.—Med.

> THE LOCAL TREATMENT OF PSORIASIS, as recommended by Auspitz (Allg. Med. Cent-Zig.), differs decidedly from the scraping recommended by the junior Hebra and Bardenhever, for their plan is place The best re withe a almost always followed by relapses sults, he claims, have been obtained from brisk cases, frictions with fine sand, followed by the local applications with fine sand, followed by the local applications. cation of liq. ferri sesquichlor.

> The Renewal of Prescriptions in Germany has recently been forbidden by law, except on the woost order of the physician originating the prescription whenever it shall contain powerful medicines, such

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INVERSION OF THE UTFRUS; RE-COVERY.

Inversion of the uterus is a lesion sufficiently rare to justify the publication of every case, however simple. The grave nature of the injury and the dangers both immediate and remote attending it, the fact that it may occur without attracting the notice of the physician, and that even when attention is called to it there may be failure to recogrelief, are good reasons why every physician, in obstetric practice at least, should be familiar with its signs and symptoms. That acquaintance with the accident is not general, the number of cases of unreduced inverted uteri related in current obstetric literature makes sufficiently evident. Cases are recorded varying in duration from a few hours to fifteen years,-Dr. White (Buffalo) relating one which was reduced by him after that lapse of time. Fortunately, however, this is exceptional, and relief is usually sought and obtained within a few weeks for months from the time of the injury.

The difficulty of returning the organ to its normal position is sometimes very great, and we may all draw courage from the fact that the most eminent men in American gynæcology have devoted ¡ hours at a time, and sometimes performed repeated

coperations before finally succeeding.

The methods of reduction usually resorted to may be briefly sketched here. By the first, the patient being etherized and placed upon her back with her legs drawn up, the uterus is grasped by the hand with the fingers extended, and lateral compression is exercised upon the organ, the vagina being first placed upon the stretch. By applying again appeared externally. pushed upward and backward, the part last invert- up at the time of the second prolapse. dependent part of the fundus, the portion of the uterus first inverted is first pushed up. A third process, which may be termed a modification of the second, is suggested by Dr. Noeggerath, namely to apply pressure to each cornu of the uterus, and so effect reduction in that way. In cases of long standing it may even be necessary to open the abdominal cavity and distend the cervix before replacement is possible. Various modifications of the above measures may be required in special cases, to which no allusion is necessary in a paper application applic esting and instructive article on this subject in the American Journal of Obstetrics, by Dr. Thomas, of New York, and to the writings of Drs. Emmet, Wooster, and others on the same.

Dr. Thomas's differential diagnosis between complete inversion and fibroid polypi is so clear and conclusive that I take the liberty of quoting it

If it be a polypus,—(1.) The probe will pass by its side into the uterus. (2.) Conjoined manipulation will reveal the uterine body. (3.) Rectal touch will reveal the uterus. (4) Recto-vesical exploration will reveal the uterus. (5.) The pedicle will usually be small. If it be inversion,—(1.) The probe and finger will be arrested at the neck. (2.) Conjoined manipulation will reveal the ring where the body should be. (3.) Rectal touch will not nise its character and take immediate steps for discover the uterus. (4.) Recto-vesical exploration will not discover the uterus. (5.) The pedicle will be large.

The following case illustrates some of the most frequent symptoms resulting from inversion;—Mrs. H., aged twenty-five years, American, in good health until present illness; married three years, and mother of two children. Nursed first child until it was thirteen months old. Second child was born May 7, 1876. Labour of only three hours' duration terminated naturally. During labour she took ergot, and was urged to make undue exertion by the attending physician. child was very large. Delivery of the placenta followed in a few minutes and was not hastened by traction on the cord or by introduction of the hand into the vagina. Is not aware of suffering any severe shock at the time. Continued to feel weak during seven days, and at the end of that time noticed that "her womb came down" while straining at stool, appearing outside of vulva. She "put it back" herself and sent for her physician. He, it appears, did not recognize the nature of the difficulty. She had retention of the urine for the week following. Two weeks later the uterus She remained in bed steady and continued pressure the uterus is thus for two weeks after the birth of her child and was ed being first reduced. In the second or so-called rhage constant from the time of delivery until dimpling" process, by pressure upon the most visited by me eleven weeks afterwards, and she had been confined to her bed, except at short intervals, during the whole period. So far, the patient's statement. Her physician considered the case to be one of polypus of unusual character, and postponed operative measures until her health improved.

When first seen she was very much enfeebled by loss of blood and complained of a feeling of weight and dragging about the back and loins. examination revealed a tumor filling the vagina and appearing just inside the vulva, somewhat pyramidal in shape, of firm consistence, white color, and having much the appearance of a fibroid. It did not, however, have the stony hardness of the lat-The finger passed high up could be swept around the cul-de-sac, and the diagnosis could be made with tolerable confidence. The rectum was distended by fæces, preventing a complete examina-Next day was appointed for attempting re-

* Volume iii., page 423.

and some looking up of the subject impaired my ing a few minutes, and placing her in the recum-confidence in the diagnosis, and began to make bent posture, I commenced the administration me fancy it might be a fibroid polypus. I suppose The chloroform I used was Duncan and Flock many of us experience similar doubts in cases where hart's, upon the purity of which we can always de absolute certainty does not exist. Dr. Fitz kindly pend. I poured a measured drachm upon a piece saw her with me next day, and the rectum having of lint, enveloped in a towel. I held it some little been thoroughly evacuated and a thorough exam- distance from her mouth and nose, and let her in ination made possible, a correct diagnosis was hale slowly. My friend noted her pulse, whilst l

easily made. method was followed. snap of spontaneous return mentioned in the books | Marshal Hall's method, but without success. none of any consequence after. The patient was again restored; the woman being rescued 4 kept in bed for a week and then allowed to sit up. parently from the very article of death. Nothing important occurred afterward; there was time, the anæsthesia seeming tolerably profound Fournal.

DEATH FROM CHLOROFORM AVERTED BY THE INHALATION OF NITRITE OF AMYL.

We have received from a physician, (Brit. Med. | peril. I am thankful to say I have never with Journal), the following interesting report for publi-jed a case of death from chloroform; but, from cation. On the 29th instant, I was asked by a accounts published in the medical journals, both professional friend to administer chloroform to a and my friend inferred that, in the present instant patient of his, from whom he was about to remove there was syncope arising from paralysis of a fatty tumour, situated in the left lumbar region. heart, and that this was met by the nitrite of any The patient in question was about forty-nine years which, in accordance with its physiological effective patients. of age, married, the mother of several children, of gave a direct fillip to the arrested circulation. thin spare habit, but otherwise in good health. She was nervous, and apprehensive of the result, entreating me not to give her too much chloroform. Having previously examined the heart and taverns is now strenuously advocated in me found all the sounds normal, I gave her about two places, as supplementary to the temperance more

An interview with the former physician teaspoonfuls of brandy undiluted; and after wait

carefully watched the respiration. The first dose The patient was etherized by Dr. W. A. Dunn, did not produce any effect, and I then used as firmly by the hand, the vagina put upon the stretch the patient striving several times to snatch the in

and having been placed upon her back the first other drachm, which soon caused a good deal of The uterus was grasped excitement, incoherent talking, and strugglingand steady pressure was made obliquely upwards haler from my hand. This gradually subsided and backwards in the axis of the pelvis, lateral com- and she appeared to be passing into the third stage pression being made at the same time, with the end of anæsthesia, when she made an abortive attempt to reduce first the part of the uterus inverted last. 1 to vomit, raised her head from the pillow, and, to After ten minutes' continuous effort without appar-ing friend's great alarm, the pulse flickered and ently effecting anything, my hand became fatigued stopped altogether; she gave a gasp; foam gather and Dr. Pitz took hold. After the expiration of ed on her lips; her jaw became rigid; and to a another ten minutes the organ began to diminish appearance she was dead. I immediately with in size and to return to its normal position, so that drew the chloroform; my friend dashed some coll when I again resumed the completion was a mat- water on her face and pulled her tongue forward ter of only a few moments. There was none of the whilst I commenced artificial respiration, after in this case; the fingers were not only obliged to then poured some nitrite of amyl on lint, and help follow the fundus and push it into place, but to re-lit to her nostrils. In such emergencies, it is in main in utero until the cervix began to contract. Ex-possible to judge the flight of time correctly; $\mathfrak b$ ternal manipulation hastened this, and within half I should say in ten seconds there was a flushing an hour the organ was fairly contracted. There the face, the pulse was again felt, and, to our green was very slight hamorrhage during the operation, joy, the all-important function of respiration a lame back and a sense of soreness in the right my friend proceeded to remove the tumour, while iliac region, but no pain or leucorrhoea. There the did in a rapid and skilful manner, whilst, as " also remained for some time more or less vertigo, patient grew restless. I gave an occasional while referable to excessive loss of blood, which time and chloroform. It proved to be an ordinary a tonic treatment wholly removed.—Boston Medical tumour. Only one small vessel required to ligatured. The wound has since healed rapid and the patient has made a good recovery. looking at the order of symptoms, I cannot he forming the opinion that, had it not been for nitrite of amyl, this poor patient would assured I have never seen, either in surgice or obstetrical practice, any one in such immine

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TREATMENT OF FRACTURE OF THE PATELLA.

All who have had much experience in the treatment of transverse fracture of the patella must have found the different methods recommended in the text-books inefficient and unsatisfactory to both surgeon and patient. Having treated a considerable number of cases by the most approved appliances with no better results than those obtained by "position" alone, I had concluded to relieve my patients of the annoyance of straps, bandages, and the like, and myself of the trouble of applying them, and to trust to simple treatment by position.

Upon hearing good reports of the method recommended by Dr. Sanborn, of Lowell, I gave it a trial, but found that the twisted plaster over the patella caused pain and excoriation of the skin; that the plaster was drawn into a string for some distance above and below the patella, and that the skin was dragged into a great fold, while the fragments were but little if at all acted upon. To obviate these objections I modified the appliance as described below: a tinsmith was employed to bend a piece of No. 13 wire to the shape and to surround one side with a tin roller like that of a common harness buckle; to this was sewed one end of a strip of plaster two and one half inches wide and about a foot long; the plaster was then applied to the thigh, with the wire exactly over the upper extremity of the upper fragment. A similar strip of plaster was applied to the leg below the lower fragment, to which a strip of strong cotton cloth, about a yard long, had been sewed; a strip of plaster around the limb and splint, above and below the patella, served to secure the limb to the splint and to hold the ends of the other plasters down against the broken bone. The end of the cloth being passed around the pulley and drawn upon, the fragments were held together with the greatest ease and with comfort to the patient. The end of the strip of cloth was then split in two and tied around the end of the foot piece of the splint in a bow-knot. This was quite as efficient as a weight would be, and much more convenient. The smooth cloth, passing over the broken bone, caused no pain and prevented tilting; the circulation was not interfered with, and easy control over the fragments was maintained.

I have now treated three cases in this way, with excellent results and with comfort to the patients. It is important that the plaster should be of good quality.—Dr. Galloupe in Moston Bed. Fournal.

[The weight and pully might also be used with this contrivance.]—ED.

The British Parliament appropriates \$10,000 a d in my year to scientish Parlie d in my processes of disease. year to scientific investigations into the causes and

POPLITEAL ANLURISM CURED BY THE APPLICATION OF ESMARCH'S BAND-AGE FOR FIFTY MINUTES.

Michael M.—, aged thirty-six, a grocer, was admitted into Mr. Tyrrell's ward at the Mater Eisericordiæ, Dublin, on the 20th of April, with an aneurism of the left popliteal artery. He stated that up to the preceding March he had enjoyed good health, except for a short time in September, 1872, when he had a slight attack of rheumatism. He had been in America for a year, and while there was very intemperate.

On the 10th of March, when kneeling, he was seized with a most violent stinging pain in the back of his left knee. He stood up at once, and the pain ceased until he went to bed, when it returned with increased violence. The pain continued during the night, to disappear again in the On examination he noticed a small morning. hardish lump in his lest arm, but did not feel it throbbing. For about a month after this he continued quite well, except for a dull pain in the left arm which attacked him on and off.

On the 8th of April, as he was returning home from a long walk, he was again attacked with a most violent racking pain, and the lump, which had up to this date been slowly increasing in size, now increased rapidly, and commenced to throb. He painted it with tincture of iodine, and rested for some days; but, not finding himself getting better, he sent for Dr. White. That gentleman, at once recognizing the nature of the disease, sent There was no history of him to Mr. Tyrrell. syphilis.

On examination, a large pulsating tumour was felt and seen in the left popliteal space, measuring five inches from above downwards, and five inches and a half from side to side. It was soft, and a slight bruit was audible with the stethoscope ever The superficial veins of the leg were swollen, and the whole limb was slightly cedematous. Neither the anterior nor the posterior tibial arteries could be felt on the left side but were palpable on The circumference of the left knee the right. immediately above the patella was fourteen inches, on the right side twelve inches and a half; half an inch below the patella on left side fifteen inches, on the right side eleven inches. The tumour was principally in the inferior portion of the popliteal space. The heart sounds were normal. He required large doses of morphia to give ease from the violent pains, shooting from the toes to the hip, which came on at night. He was ordered to remain in bed, and to take immediately a full saline cathartic draught. He was put on a restricted meat diet, got very little to drink, and was allowed ice and oranges to allay his thirst. He had a subcutaneous injection of morphia at night.

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march's bandage. Commencing at the toes, the long. Some great omentum protruded from it bandage was wound tightly round the limb as high The boy vomited whilst the necessary questions as the tumour, then lightly over it, and again up were asked, and part of the stomach, about the the thigh. The elastic tourniquet was also put on. size of an apple-about two and three-quarter The patient complained of considerable pain inches in diameter—was gradually forced out of Tyrrell allowed the bandage to remain on fifty allowed food to escape from the stomach. During minutes. On its removal all pain ceased. The the vomiting, Dr. Brand kept up gentle pressure Digital compression was kept up for two hours, united the stomach-wound-peritoneum to peritumour was found absolutely pulseless. As a ligatures, he brought out at the external wound matter of precaution a compressor was applied Two sutures, passing through the peritoneum, over the femoral artery at the pubes, and the pa-closed the external wound, after careful cleansing, tient was directed to keep it moderately tight. Strips of plaster were also applied. The very pa-After the elastic bandage was taken off, the leg tient little sufferer was much exhausted. His skin and thigh were enveloped in a flannel bandage was cool; his pulse 108. He was put to bed, and elevated on pillows.

On the 25th April, the patient, having slept all night, said he was free from pain, but complained of numbness in the toes and foot. The articular arteries around the knee could be both seen and felt to pulsate. In the evening pulsation was felt in the anterior tibial on the dorsum of the foot. The tumour felt very solid; no trace of pulsation. Next day the patient was better in every respect; the ædema of the leg was nearly gone, and sensation was normal in the foot. He slept well, and the tumour was apparently smaller. On May 1st the patient got up and dressed himself, and was anxious to be allowed to walk about, but Mr. Tyrrell would not allow this, as he thought it more prudent to rest the leg for some time longer. Ordered a pair of crutches. On May 2d the patient went home.—Lancet, June 30, 1877.

RECOVERY FROM A WOUND PERFOR-ATING THE STOMACH.

In the Aerztliches Intelligenz-Blatt for December 26, 1876, Dr. Brand, of Fussen, records the following case. He was sent for on the 22nd of July to see a boy, aged five years, who was said to have fallen down, and received a wound in the abdomen, from which something was hanging out. On arrival he found that the boy had fallen from a table to the floor with an earthen pot de chambre, and had cut himself with one of the pieces of the broken vessel. His father drew the broken piece from the wound. This was soon after supper, and his stomach must have been pretty full at the time. On examination, a somewhat jagged wound was found on the left side of the abdomen in the lower part of the epigastric region, one and a quarter inches from the median line. The wound itself was almost even arrest the febrile exacerbation.

On the 24th of April Mr. Tyrell applied Es- vertical, and about one and three-quarter inches while the bandage remained on, but it was not so the wound. In this there was a "solution of consevere as to call for the use of an anæsthetic. Mr. tiuity " of three-fifths of an inch in length, which ging; but tumour had sensibly diminished in size, was quite on the abdominal walls, then carefully cleansed the hard and globular, and had a very slight pulsation. extruded part, ligatured a small spirting artery, When examined at the expiration of that time the toneum-with a stitch, the end of which, with the matters. of the insi tention is **ü**nderstoo the liver, i iced compresses applied to the wound, small doses **al**ter its re

of opium ordered, and ice to be sucked to relieve

SALICINE EOR CHILLS.—Dr. Thompson reports,

in British Medical Fournal, a number of cases

agent. He used large doses, grs. xxx every two

thirst. Next day his pulse was 92; temperature life. almost normal. He felt pretty comfortable. There 🕸 With re was slight redness round the wound. In the next of hepatic few days there was some abdominal tenderness, where thes but not distension: and gradually, with very moderate febrile symptoms, a circumscribed abscess **Eot**her, tho formed from which, after removal of the stitches, on the sixth day, a considerable quantity of good As to the thick pus escaped. At the same time gentle trac sadvises at tion removed the suture and ligature belonging to the side, w the stomach-wound. All bad symptoms vanished great, and from this date, though some pus was discharged mercurials, until the 9th of August, when the external wound mentations, cicatrized. On August 21st the boy was brought vious that again with a swelling in the old site. Pressure matter must caused a small quantity of pus and a caraway seem most seed to escape from the distended cicatrix. Three ported, and days afterwards, the wound again healed. After sees is suff a year, the boy was seen again in good health, not provide the control of the con a year, the boy was seen again in good nearth, and it ap Med. Press suffering the least from the accident, and it ap Med. Press peared that the stomach was firmly attached to the abdominal wall. The slight nature of the symptoms all through is very remarkable.—London Medical

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showing the superior effacacy of salicine in the The tenth treatment of intermittents. Cases wherein quining was held on had utterly failed were promptly relieved with the Presiden hours. Usually the fourth dose was sufficient to was a large a break up the chain of morbid action, after which inion. The a few doses at regular intervals completed the cure delegates fro It may be given when the chill is on, and will states: Dr.

usually shorten the chill, and greatly mitigate of Boston;

inches ABSCESS OF THE LIVER.—In the Practitioner for om it. the current month, there is a good practical paper estions on this subject, by Sir J. Fayrer, K.C.S.I., M.D., ut the in which the author draws attention to the insidiiuarter bus manner in which these abscesses are often deout of feloped. As a rule, the early symptoms of suppuf con-Tation are those of congestion, with bulging of the which side, either between or below the ribs, with chills During or well marked rigors, high temperature and sweat-'essure ing; but sometimes none of these symptoms are ed the well pronounced, and yet an abscess may have artery, formed and escape detection until the bulging and perifluctuation, or until the sudden evacuation of its th the contents through the bowels, the lung, or stomach, vound. r into the peritoneum reveals the true state of neum, matters. Several cases are quoted in illustration nsing. of the insidious invasion of this affection, while atry pa-**Rention** is also drawn to the fact, not so generally s skin understood, that a man may have an abscess of bed, the liver, which is not evacuated, and yet recover after its removal by absorption, or by its remaining ·elieve in a state of quiescence for the remainder of his rature Mile. There

There With regard to the vexed question of the priority e next of hepatic abscess, or of dysentery, in those cases rness, where these affections occur together, Sir J. Fayrer, y modification of the priority of dysentery, in those cases rness, where these affections occur together, Sir J. Fayrer, y modification of the case affections occur together, Sir J. Fayrer, y modification of the priority of dysentery in those cases and the outset of dysentery in those cases rness, and due to the treatment of liver abscess, the author at the outset local depletion by leeches on the priority of t

good As to the treatment of liver abscess, the author extract advises at the outset local depletion by leeches on ing to the side, when the symptoms are acute, the pain ished great, and the fever high. Also free purgation by larged mercurials, salines, and ipecacuanha, with hot fowounds mentations, rest, and a light diet. When it is obrought vious that pus is formed, the evacuation of the essure in the must be favoured by such channels as may raway seem most favourable. The strength must be suptime ported, and irritation allayed; and when the abatter Seess is sufficiently near the surface to justify exh, not ploration or puncture, it should be evacuated.—
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CANADA MEDICAL ASSOCIATION.

FIRST DAY'S PROCEEDINGS.

n the The tenth annual meeting of this Association ninite was held on the 12th and 13th ult., in Montreal, 1 the President, Dr. Hingston, in the chair. There ent to was a large attendance from all parts of the Domwhich ninon. The following gentlemen were present as cure delegates from medical societies in the United 1 will States: Dr. Kimball, of Lowell, Mass., Dr. Wing, te of of Boston; Drs. Brodie and McDonald, De-

troit, and Dr. Adams, and were invited among others to seats on the platform.

Dr. David, the Secretary, read the minutes of the last annual meeting, which were approved.

A large number of new members were duly proposed, and admitted as members of the Association.

Letters of apology were read from absent members of the Association.

The President then read the annual address which showed deep research and a close acquaintance with the subjects treated upon.* After acknowledging tersely the compliment paid him in calling him to preside over the convention, he said, that much as had been done by the Association, since its formation in Quebec ten years ago, all the advantages hoped for by its founders had not yet been realized, although sufficient had been done to show every member that a greater degree of energy pervading and agitating the whole would have led to the achievement of a greater degree of success. Notwithstanding difficulties arising from social and geographical conditions, much good had been done. It had been the custom at the opening addresses before Societies in Europenotably so in Great Britain—to take up some department of the healing art, or some master or explorer that had passed away; but in an association like that he addressed, limited time did not admit of discussing abstract questions of historic interest. Thus they were confined to those politic-medical questions which concerned them most. He depied the insinuation that the Association had no objects sufficient for the existence worthy the labor, expense and time of meeting together, insisting that this was the opinion of the ill-informed, who failed to perceive its advantages. Alluding to the growth of the Medical Association of our "American cousins," he (Dr. Hingston) said that although now after an existence of only thirty years found to be almost too large for practical purposes, the society must be admitted to have accomplished an amount of good not to be achieved by any other It had brought the medical profession of means. the United States into one body and encouraged the State institutions, thereby improving the tone in them. So with the association he addressed, which had existed for only one-third of that period. Legislation had imposed geographical boundaries and endeavored to make a fit practitioner of one Province disqualified in another. The association defied all efforts to fix limits as of a boundary, and rubbed out those unsightly enclosures. matter for gratification that the work of the session would be divided into sections—surgery and medicine—the other branches of the healing art to be

^{*} The following extracts are taken chiefly from the Montreal Gazette.

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subdivided in these sections. Alter alluding to matters of routine, he touched upon the question of legislation in the Province of Quebec, where three bills went in last session to satisfy three orders of mind, and came out as one bill, and in a shape that satisfied no order of mind. The Province of Ontario system—a central Examining Board—had been favorably pronounced upon by the medical press and profession of that Province. The Province of Quebec had no such system; yet nothing short of it would satisfy those who looked only to the well-being of the profession and the community. The compulsion, requiring persons licensed in one part of the Dominion to procure license in another, seemed an anomaly; it was one, however that could only be remedied by a parity of medical legislation in the several Provinces. Much more liberal was the action of the English College of Physicians in Great Britain, which had passed a by-law legalizing even foreign practitioners in England, and on certain conditions exempting them from re-examination. It appeared to him the duty of the Canadian Association to endeavor to obtain such legislation as would lead to a like generous action. It was useless to speak of medical legislation for the whole Dominion, but local legislation could easily introduce measures simultaneously so that a practitioner in one could be a practitioner in all the Provinces. This could be done by central examining boards and a uniform system. In drawing attention to the act as at present existing, he showed that by the manipulation of proxies one active man might control matters at any time for the whole Province, making practitioners in the country and towns, unknown to themselves, his instruments in so doing. ing called attention to the refusal of the British Board of Trade to recognize Canadian qualifications for emigrant and passenger ships, so recently before the public, he explained that although the Board of Trade had rescinded the order, it was nevertheless a law, to be used by the British authorities at any time. The diplomas were not recognized, but their holders were allowed to be employed. And how could Canadians ask for the recognition of their diplomas in Britain while they refused to do so in their own country. Alluding to the ungenerous act of a member of the profession in Ontario towards a surgeon of distinction from Detroit, he was certain that his associates in convention would allow him to interpret their views in assuring Dr. Jenks, and through him the members of the profession in the adjoining Union, of their honest offered courtesy, and of their continued desire for reciprocity in matters which even governments cannot control, and in which science and humanity demanded the most unfettered civility.

Coming from the question of the education and qualifications of a medical student before entering

what should be his qualifications on entering our me ical schools? he said the education he would adv cate should give a delicate taste, a candid, equitable dispassionate mind, a noble and courteous bearing in the conduct of life; should open the mind, con rect, refine, enable it to master, know and digest rule and use its knowledge, and give it power over its own faculties, application, flexibility, method critical exactness, sagacity, resource, address With the intellect thus tutored, the student might enter into the study of that most difficult profession of which we are members and pursue with advantage tage a particular course of study that might issued some definite and perhaps remunerative work. shared not with those who advocated a low util tarianism, but rather with those who think the sta dent should be formed "not by a parsimonion admeasurement of studies to some definite futual object, but by taking a wide and liberal compassion and thinking a great deal on many subjects with better end in view, perhaps, than because the exc cise is one which made them more rational and is telligent beings." But this was not what had be thrust upon them recently in an ill digested lawn lating to their profession, in an important Province of this Dominion, where our colleges and sem naries of learning have been degraded from the gained, position. The graduate in arts, the student will patients had completed his eight or nine years curriculus at any of our colleges should by that fact alones qualified to enter upon the study of medicing But no, our universities may grant degrees in and but the colleges and affiliated medical schools ova ride them and subject the candidate to a new deal, from which he should be exempt. In the dis of Samuel Johnston the physician was admitted be the most cultivated and learned in any socie Could this be said to-day of many countries in world—of Canada? There were cases, and notal Ireland, where the physician is still among the educated gentlemen, and his social standard reg lated accordingly. Dr. Stokes in a conversation had with him (Dr. Hingston) in 1867, explain this by saying: "Nearly all our graduates in mag icine are graduates in arts. Of the last 98, all la degrees in arts." In some other countries same condition of things obtains. Continuing this theme, he discriminated in favor of a liber as in contradistinction to a crummed education They must be above their knowledge, not under It was with medicine as with politics. There we two classes of those—one versed in the science art of government, and capable of an abstract vi of the contentions of parties—the other in transcript or copy of the last editorial in the jos nal of his party, and unequal to methodically ranging or digesting facts. To which class show the guidance of the affairs of the country be entired He could easily anticipate their answer. upon the practice of his profession, to the question, | question of far more moment than party which

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bhysician was called to consider—the health and life of the people—and if the cultivation of the intellect was necessary when men were content to observe and base practice on observation, how much more hecessary was it now when the most acute logical minds are sorely puzzled between what are scienfific truths and bold and reckless assumptions? Here he remarked that this is unquestionably the age of bold, reckless—he had almost said impudent-assumption in matters of science. While it was generally conceded that "our ideas of the infrinsic elements that constitute beings in the physical as well as in the moral order are very limited and imperfect," they boldly assume the mutual dependence of things upon each other when we could logically establish nothing more than coexistence or succession, as if co existence or succession necessarily implies connection or relation. He quoted the writings of Huxley and Spencer in proof of his statement. Speaking of synthesis in medicine, he quoted past events and writings of Schenck, of Vienna, and later our own Erasmus Wilson, in support of it, saying that "the tyro in medicine has, or thinks he has, a half dozen gemedies for every disease; but as experience is gained, he learns, and with advantage to his patients, to make a fewer number of remedies to Suit a much greater number of disorders." He had always thought and the belief was strengthened with his years, that the work of grouping diseases for therapeutic purposes was yet to be done. He freated on the importance of state medicine which should investigate the air breathed, the water drank and all that pertains to our habits as communities—to protect the public health was the duty of state medicine. There could be no more important work than this. The work of educating communities, and States was to be done through the people, and to the physician fell the philanthropic though perhaps somewhat thankless task. The conviction was gaining ground that a Board of Health should be established for the Dominion, for the Provinces, and for the Municipalities,—one to each. He went into this question at considerable length, enforcing earnestly upon his hearers their duty and that of their successors in the education of public opinion to a better knowledge of the principles of health as the means for achieving a proper position for state medicine, and passing on, touched upon the union with the American Medical Association, quoted the original resolufion passed at Niagara in 1875, alluding to the joint resolution of 1876, in Philadelphia, "That a junion of the two Associations into one is desirable," &c., and praising the admirable manner in which Dr. Bowditch, of Boston, had performed his duty at Chicago in June of the present year, and centius his arguments pro and con, along with his final r. It was deduction against the union as inexpedient bey which cause of the impossibility in working machinery so

unwieldy as that organization would necessarily be. He explained, however, that Canada never asked for union of the two bodies, that the proposition came from the Americans themselves in the first What the Canadians did ask for, was "a conference at some central point," so as to Lecome "more intimately acquainted and discuss medical and surgical questions on a common basis." the Canadian representatives at Philadelphia asked for a "union" of the Associations, they expressed their own views, and did not speak for the Canada Medical Association, which at Niagara in 1875 asked merely for a "medical conference," without either Association losing its identity. Here the questions connected with the birth-rate of countries was taken up. Before concluding his address, by special request he referred to the evil which was prevalent—more particularly in certain states of the adjoining Republic-amongst some classes of the community—the crime of futicide. He dwelt upon it in its social, moral, legal, religious and scientific aspects, and condemned it in the most unmeasured terms.

The address occupied upwards of an hour in delivery, and was listened to with marked attention. A vote of thanks was moved by Hon. Dr. Parker, seconded by Dr. G. W. Campbell, and tendered to the president for his very able and interesting address.

Dr. Ross, chairman of the committee on "Medicine," read his annual address, and Dr. Howard, chairman of the committee of "Medical Education and Literature," also presented his report.

Dr. Howard, seconded by Dr. Bell, moved that the Convention resolve itself into two sections-Medicine and Surgery—to meet for business at two o'clock. Carried.

The President named Hon. Dr. Parker, and Dr. Canniff as chairmen of the respective sections.

Dr. Grant moved, seconded by Dr. Gibson, that the following gentlemen be named a Committee on Nominations: Drs. Parker, Botsford, Canniff, Workman, Fulton, Sweetland, Fenwick, Osler, F. W. Campbell, Worthington, and Rottot. The meeting then adjourned for an hour.

The members met again at two o'clock, and divided into two sections-medical and surgical.

The following papers were read in the medical

section:

Tricuspid Stenosis, by Dr. R. P. Howard, Montreal; treatment of empyema, by Dr. J. Fulton, Toronto; plea of insanity, by Dr. Hornibrook, Mitchell, O.; economical aspects of public sanitation, by Dr. Playter, Toronto.

The following papers were read in the surgical

Epithelioma of the eye, by Dr. Alt, Toronto; gastrotomy and ovariotomy, by Dr. Robillard, Montreal; nasal polypus, by Dr. Reeve , Toronto. Discussion was had upon all the papers, but of the remarks.

In the evening the members of the Association and their ladies were entertained by the President, an "at home" having been given in their honor by Mrs. Hingston. It is needless to say that the evening was spent pleasantly.

SECOND DAY'S PROCEEDINGS.

The chair was taken by the President at 10 The minutes of the previous day's meeting were read and approved. Several new members were elected and took their seats.

It was moved by Dr. Fenwick, and seconded by Dr. Robillard that Sir John Rose, M.D., of Edinburgh, and Dr. Cormick, of Paris, be elected

corresponding members. Carried.

Dr. THAVER gave notice that at the next meeting he would make a motion with regard to vaccination and the keeping of heifers from which to obtain pure vaccine for supplying the profes-

The Rt. Hon. Lyon Playfair, M.D., C.B., LL. D., M.P., for the University of Edinburgh, was introduced to the Association by Dr. Hingston, and was requested to take a seat on the platform.

The Rt. Hon. gentleman made a suitable acknowledgement of the honour paid him. Taylor, of Edinburgh, was also requested to take a

seat on the platform.

Dr. Fulton then read the report of the Committee on "Therapeutics and New Remedies." Dr. Botsford next reported on the subject of "Climatology;" and Dr. Osler presented his

report on "Necrology."

Dr. Workman, at the request of the Association, read his paper on "Crime and Insanity," in general session. A short and interesting discussion followed the reading of this paper, at the close of which Dr. Hornibrook moved, seconded by Hon. Dr. Parker, "That in the opinion of this Association it is desirable in all criminal trials, when medical opinion suggests the probability of mental unsoundness, the accused should be placed under the supervision of experts for a sufficient time to enable them to determine whether he was insane or not at the time the crime was committ-

Dr. Botsford moved, seconded by Dr, Reddy, that the thanks of the Association be given to Dr.

Workman for his able paper.

Dr. HOWARD gave the following notice of motion: "That it is in the interest of justice that when ante-mortem examinations are to be made, experts familiar with such scientific work should be employed by the Crown when procurable."

The meeting then adjourned.

The meeting of the Sections commenced at

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The following papers were down for reading in the Medical Section:—Addison's Disease, by Dr.

want of space compels us to forego publishing any Ross; Acetate of lead in post partum and other hemorrhages, by Dr. Workman; Pernicious Ang mia, by Drs. Osler and Bell; Vital Statistics, b A. B. Laroque; Supposed Case of Gummy Tumb of the Brain, by Dr. Proudfoot.

> In the Surgical Section, the following paper were on the programme :- Optical Defects, by D Reeve; Vesico-Vaginal Fistula, by Dr. Trenholm Excision of the Knee, by Dr. Fenwick; Embolish of Central Artery of Retina, by Dr. Buller.

For want of time many of the above paper were not read but handed to the Committee Publication, and will appear in the volume

Transactions.

The Association convened in General Session the afternoon. Reports were received from the medical and surgical sections.

Hon. Dr. PARKER called attention to their crease of papers sent in, and the necessity for the session lasting three days instead of two.

A motion to that effect was carried.

Dr. OSLER then read the following report of the committee on nominations:

President, Dr. Workman, of Tolonto; Secretary Dr. David, Montreal; Treasurer, Dr. Robillar of Montreal.

Vice-Presidents.—Dr. McDonald, of Hamilton Dr. Worthington, of Sherbrooke, Que.; Dr. Cowie Halifax, N. S.; Dr. McLaren, St. John, N.B.

Secretaries.—Dr. Sweetland, of Ottawa; Dr. W. Campbell, of Montreal; Dr. John Black, Halifax, N. S.; Dr. Atherton, of Fredericton.

Committees.—On Publication, re-appointed; Medicine, Drs. Mullin, of Hamilton, and Rossa Lamarche, of Montreal; on Surgery, Drs. M. loch, of Hamilton, Grassett, of Toronto, and R rell, of Halifax; on Obstetrics, Drs. Rosebrugh, Hamilton, U. Ogden, of Toronto, and Trenholm of Montreal. On Therapeutics—Drs. J. E. Ke nedy, of Toronto, A. H. Kollmyer, of Montre and Woodhill; on Necrology, Drs. Ridley, Hamilton, Lachapelle, of Montreal, and Burge of London; on Medical Education and Lite ture, Drs. Reddy, of Hamilton, Michaud, of A mouraska, and Howard, of Montreal; on Clin tology, Drs. Playter, of Toronto, Larocque, Montreal, and Jennings, of Halifax.

Hamilton was chosen as the next place of my ing, on the second Wednesday in Sept., 1878.

Dr. Mullin moved the following gentlement the Committee of Arrangements, with power add to their number. Drs. Malloch, McDon Ridley, G. McKelcan and the mover, which carried.

A report of the Auditing Committee showed receipts for the year to have been \$221.33; bursements, \$195.68; balance in hand, \$25.65; of Sanderso

bursements, \$195.68; balance in name, \$250 Koenig's It was decided to print the transactions of intervals of Association at an early date, and a subscript irritation was opened for that purpose.

Dr. Bell gave notice that at the next meg

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In the and frier Club, b Hingsto Campbe been do loyal ar sponded gave the was re Canniff. by Dr. C and Rec "The M Workma Chairma ing," elic Playfair, Dr. Park responde

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he would move to so amend the by-laws as to admit members of the profession in British Columbia, Manitoba, and Prince Edward Island.

Votes of thanks were tendered to the Windsor Hotel Company and Railway and Steamboat Companies, to the resident members of the profession; to the Committee of Arrangements; and to the retiring President; after which the meeting adjourned sine die.

In the evening the members of the association and friends were entertained at dinner at the City Club, by the Medical Profession of Montreal. Hingston occupied the chair, and Dr. F. W. Campbell the vice-chair-after full justice had been done to the good things provided, the usual loyal and standard toasts were proposed and responded to. Dr. Howard, in a very able speech, gave the toast of "Our Liberal Professions," which was responded to by Drs. Desjardins and "Our Medical Schools," was replied to by Dr. Geo. Campbell, Lamarche, F. W. Campbell and Reeve. The Mayor of Montreal proposed "The Medical Association," responded to by Dr. Workman, the newly elected President. Chairman then proposed the "Guests of the Evening," eliciting replies from the Right Hon. Dr. Playfair, Drs. Taylor, Brodie, of Detroit: Hon. Dr. Parker, and Dr. Grant. The "Press," was responded to by Drs. Fenwick, Campbell, Zimmerman, Bessy and Mullen, and the "Profession of Montreal," by Dr. Osler. A very pleasant levening was spent by those present.

A most interesting feature of the Association was the exhibition of scientific apparatus of various kinds. Dr. Wilkins exhibited Physiological apparatus, for use in the study of Practical Physiology and Histology, to which subjects he has devoted a great deal of attention, while his vivisections and demonstrations of the circulation in the mesentery and lungs of the frog, were most interesting. He also showed members present the use of the following instruments, and gave social interesting demonstrations. Sanderson's Kymograph for recording tracings of arterial pressure, and other tracings, by means of a canula in the carotid or crural artery of an animal, and connected with the kymograph, the influence of the vagus and other nerves on the circulation can be readily demonstrated. This apparatus has three axles for three different rates of speed.

Marey's Tambour and Lever, for demonstrating the influence of the vagus and other nerves on gespiration, by means of a canula in the trachea which the canula being connected with showed the tambour by means of rubber tubing—the \$21.33) Koenig's Kymograph.

Koenig's Diapason, used for marking minute

tions of intervals of time that elapses between the moment subscript of irritation of a muscle and the moment it com-

mences to contract in response to the irritation or stimulation. This instrument measures accurately the 1-200 part of a second. It is really an immense tuning fork which makes two hundred vibrations in a second; these vibrations are recorded by means of a fine piece of steel spring on a blackened cylinder, which revolves on the quickest axle of Sanderson's Kymograph.

Besides the above, various other instruments and apparatus were exhibited such as the Cardiograph, Bernard's knife for the productions of diabetes in the rabbit, by puncturing the floor of the fourth ventricle; Electrodes of various descriptions, moist chambers; Stricker's hot stage, apparatus for artificial respiration in animals, Bernard's dog holder, Czermack's rabbit holder, &c., &c.

Demonstrations under the microscope were shewn of the circulation of the blood in the mesentery of the frog, also the circulation in the lung of the frog; in both these cases the animals were under the influence of curare. The circulation of the lung of the frog is shown by making a slight opening in the thorax of the animal and then with a smallest-size catheter introduced into the larnyx of the animal, the lung is blown out beneath a stage specially made for that purpose.

Dr. Roddick exhibited Dr. Lister's antiseptic apparatus, including the most approved steam atomiser for projecting carbolic spray, the carbolized dressing, &c. He also communicated many new and interesting facts concerning surgical practice in Europe, explaining to the members, among other things the modus operandi of the thermo-cautery, of Paquelin, which he has imported. This certainly is a beautiful instrument and is destined to supersede electricity, as it is quite as certain in its action, cheaper and more portable than the latter.

During the convention the following houses exhibited very fine displays of new medicinal preparations manufactured by them:

Kenneth Campbell & Co., of Montreal, a firm well known to most of the profession for the reliability and elegance of their pharmaceutical preparations, exhibited a number of samples. Their display of elixirs, syrups and fluid extracts numbering over fifty, of their own manufacture showed to what perfection the art of pharmacy may be carried. Among these we must particularly commend their Elixir of pepsine, Elixir of beef with pepsine, so useful in cases of extreme prostration, as in wasting fevers and consumption. Their syrup of the Iodide of Iron and Quinine also deserves mention. While their sample of Norway Cod Liver Oil, collected and imported by them direct from the Norway coast, is equal to any preparation of this valuable and much used remedy that we have ever seen

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est to many strangers who found it well worthy of a visit, where they were shown all the latest improvements in the pharmaceutical art. branch establishment, Phillips' Square, (there being two establishments belonging to the firm) visitors had an opportunity of seeing the new wonder, "The Telephone," in constant use, the two establishments being connected by telegraph for the rapid transmission of messages, orders, and exchange of prescriptions. Among their specialties may be mentioned the new method of administering medicine by way of "wafer capsules," whereby the most disagreeable medicines may be readily swallowed by either adult or child.

Messrs. McKesson and Robbins, of New York, exhibited through the firm of Kenneth Campbell & &c., an assortment of 300 varieties of their gelatine coated pills, which are reliable and elegant preparations. These pills are of the spheroidal or capsule shape and it is claimed that in this form they are best adapted for swallowing and obviate the sickening sensation so universal in swallowing the round pill. This house has acquired a high reputation in the United States and Canada, for the reliability, elegance and purity of their prepara-

Messrs. John Wyeth & Bro., of Philadelphia, made a very large and interesting exhibit of very elegant new and useful preparations including the latest idea in pharmacy, namely compressed powders in pills. By this means powders are made to assume the form of small lozenges and are convenient for carriage and easy of administration. Under this form they exhibited pills of arsenic, salicylicacid, podophyllin, bismuth, opium, calomel, quinine, cinchonidia, morphia, phosphorus, pil. cath. co., &c., &c. Their preparations of dialyzed iron, lacto-phosphate of lime with cod-liver oil, elixir of beef iron and wine, syrups, medicated wines, &c., in great variety—displayed a high degree of excellence in the art of pharmacy. Their pharmaceutical preparations are excellently prepared with much skill. The usual nauseous taste of the drugs are greatly disguised and prescriptions which extemporaneously prepared would present an inelegant appearance, are rendered clear and pleasant to the taste, without detracting from their medicinal value, as evidenced in their elixir gentian and tincture of iron, bark, iron and bismuth, valerianate of ammonia, iron, quinine and strychnine, emulsion of cod-liver oil and lime, while the elixir of beef iron and wine is more agreeable to the stomach than beef tea.

The compressed powders or pills can be readily swallowed on account of their flattened shape. The bulk of the powder is considerably reduced by pressure, yet as neither moisture nor excipients are employed, the medicine disintegrates readily in most cases, the most prominent exceptions being the potassium chlorate and ammonium muriate

which are purposely compressed with greater force as they are mostly employed for local effect upon the throat, and are convenient for singers and

public speakers.

Messrs. W. H. Schieffelin & Co., of New Status as York, made a very interesting exhibit of soluble These pills are coated with a tasteless transparent soluble covering, readily melting away in the mouth. Among the list are pills of phos phorus, quinine, sulphur, morphine, pil. cath. ca and other standard pills. Preparations of remedia in soluble form is a triumph of no mean value in pharmacy.

All the preparations exhibited were of the most perfect character and deserve the attention physicians in prescribing, for the more agreeable the form in which a medicine is administered, the better pleased will the patient be, and the greater sion.

the success of the practitioner.

We were very greatly pleased to observe the rivalry that now obtains between the better class of pharmaceutists in their determination to vie with each other in their endeavour to place at the dis posal of the profession, medicines at once elegant accurate and reliable and withal so palatable that any child or lady may take them without the slight est repugnance. This fact, in itself, will remove was in mo one of the great objections of the day to regular was in mo practitioners, for there can be no doubt but una toms being the careless, crude, and to many, disgustingly discoursed well practitioners, for there can be no doubt but the agreeable way in which so-called Allopathic remediate curred we have been administered in the past has been against and light with the past has been against a light with the past has been against the great source of weakness, which taken advantage by Homeopathists has enabled its votaries to obtain a very large army of converts which they could of fresh never have gained had such preparations as those or y iso never have gained had such preparations as those inhey had exhibited by the pharmaceutists above name corn to be been in general use by the profession.

We welcome this new era in pharmacy and thank our pharmaceutists for the displays made thank our pharmaceutists for the

character possible in medicinal preparations.

The Galvano Faradic Manufacturing Co., Sowner, had New York, represented by Mr. Reid, exhibit of molten some very powerful and elegantly made electric the "dress apparatus for medical use. The medical use of electricity is becoming better understood, and more than a tricity is becoming better understood, and the perfect was by no character of the instruments exhibited by the millston company leave no room to company of with force to room. company leave no room to complain of will fore, to rep of adaptability in the matter of appliance public migl Their Pifford Galvano-Cautery is an elegant of poisonir very perfect instrument, in testimony of the practical upon cal value of which we can speak from actual ob cavaties we vation, having seen it used in a case of paint a. Clinic urethr. I carbuncle, by Mr. Reid, while in Monte in the presence of several eminent practitioners. Ergot," o The Electro-Galvanic Truss is a new idea in the same pu

construction exhibited by the patentee and proceed success

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Sprietor, J. R. Alexander, M. D., who claims to have reached at a bound the ultima thule of perfec-Sion in his trusses. Time will give this its proper status as it has every thing else in the past.

Mr. Gross, of Montreal, exhibited a fine collection of surgical instruments and appliances.

We have thus been at considerable pains to give a full account of the general proceedings with a notice of the several very creditable and expensive exhibits made by large manufacturing establishments, some of these being valued at several thousand dellars, and we trust the attention of the profession being thus drawn to ention de what they have missed by not being present will agreeable cause the next convention, in Hamilton, to be more stered, the numerously attended by members of the profes-

Medical Items and Iews.

SINGULAR SOURCE OF LEAD POISONING. -- A Singular instance of lead poisoning, says the Medi-ical Times and Gazette, is reported by Dr. Alford, Medical Officer of Health for Taunton, in his last annual report. The disease, as observed by him, to regular was in most cases of a very marked character, the tout the state of the toms being unmistakable. The first cases that ocstingly discurred were in an isolated farm-house. Repeated visits and analysis of water, preserves, etc., threw no light whatever on their origin, no lead being found. Then, in quick succession, a large number es to obtain of fresh cases were reported in various houses, they could moo 'y isolated, several of which were very severe. is as the They had all in common, it appeared, sent their ve name com to be ground at the same mill. Dr. Alford accordingly visited and inspected the mill, and the cy and points of all the mischief was at once apparent. On plays made having the millstone raised, he found the surface second of each stone honeycombed with lead. The milling the stone being of a loose nature, large spaces had octions. Curred, which of late, during the illness of the ng Co., owner, had been filled up by pouring in quantities, exhibit of molten lead. The first grinding of wheat after le electric the "dressing" contained, no doubt, large quantituse of electric the "dressing" contained, no doubt, large quantituse of electric the metal. Dr. Alford ordered the lead to, and more be at once removed, but from what he heard this the period was by no means an uncommon method of repaired by this millstones. He considered it his duty, therein of was fore, to report the matter fully, in order that the accordingly visited and inspected the mill, and the in of will fore, to report the matter fully, in order that the appliance public might be made aware of a dangerous source elegant of poisoning. There were about ten pounds of

BILIOUS ATTACKS .- Dr. Fothergill (in Medical Times) says the treatment of bilious attacks to which dark-complexioned persons of the biliary diathesis are most subject: Rarely do persons of other diathesis and fair persons suffer from those disturbances which may fairly be said to be connected with the presence of bile acids in excess; while as to those forms of biliary disturbance where the urine is laden with lithates, the condition Dr. Murchison calls lithæmia, persons of other diathesis seem equally liable to them, and they are found in fair and dark people alike. For those bilious attacks, then, which occur chiefly in those of the bilious diathesis nothing is so good as alkaline saline purgatives taken in some vegetable infusion immediately on getting out of bed in the morning. This should be washed down with some warm fluid which excites the peristaltic action of the bowels, and, if necessary, a vegetable laxative pill should be taken the night before. After a couple of liquid motions—the more copious the better the bilious person feels pretty equal to the day's work before him. Rochelle salts with a little sulphate of magnesium in infusion of buchu forms a most excellent morning purge, in my experience. Sir Joseph Fayrer has found in his Indian experience sulphate of magnesium, with quinine or gentian, sufficient to produce two or three loose motions, an efficient measure in biliary congestion.— Southern Med. Record.

TREPHINING THE TYMPANUM WITH SUCCESS FOR DEAFNESS.—Dr. Bonnafont, the well-known aurist, has just published the particulars of the above case, which had excited much interest here at the time the operation was performed. He trephined the tympanum a year ago in a young girl of twenty, who was suffering from deafness, which nothing could remove. She could hear the ticking of a watch when applied to the skull. The tympanum was perforated by means of a special trocar, and an accompanying cannula, provided with small wings, which could be pushed out ad libitum, was left in the tympanum. Restoration of hearing took place instantly. Twenty days after, symptoms of inflammation, swelling, and abscess showed themselves; but as they were confined to the middle and external ear, and as there was no headache or fever, poulticing and injections were ordered, and the cannula was left in its place. A month afterward all these phenomena had disappeared, and the cannula fell out. It was then seen that the elegant of poisoning. There were about ten pounds of the practical upon the surface of the millstone, and the actual observaties were all filled up with the same metal.—; of fair Ex. Clinic.)

in Montre Ustilago Maidis, by which is meant the smut or cititioners of Ergot," of Indian Corn, has been employed for idea in the same purposes as ergot of rye, and with repule and particular same purposes as ergot of rye, and with repule and particular same purposes. Considerable attention is bestowed

hole made by the trocar in the tympanum was perfect and unimpaired. The patient is now quite right and hears well. Dr. Bonnafont thinks that this is a great triumph in aural surgery, and that trephining of the tympanum will take the same rank and render the same service as removal of the cataract in eye surgery.—Paris Letter to the Lancet, July 28, 1877.—The Clinic. 訓:

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CHANGES OF THE PUPILS IN CHLOROFORM NARcosis.—In the surgical clinic in Göttingen during the past winter, the changes in the pupils during the administration of chloroform were carefully ob served in 122 cases. Previous to and during the stage of excitement, the pupils were, in most of the cases, of the usual width; in a few cases, just before the stage of complete insensibility, they were quite wide and sensitive of light. During the stage of complete insensibility they were closely contracted in 120 of the cases, and were absolutely immovable in 119. An instantaneous dilatation of the pupils in this stage was found to be a threatening symptom of chloroform poisoning. occurred in two of the cases, in one of which the trouble seemed to be located in the heart, and in the other in the lungs; in both, life was restored by pulling forward the jaw and resorting to artificial respiration.

The following practical lesson has been deduced from these observations: When, during the stage of tolerance the pupils begin to dilate slowly, it is a sign that the patient is recovering from the narcosis, and more chloroform must be given: when, on the other hand, the pupils become suddenly widely dilated, the administration of chloroform must be at once stopped, and further trouble guarded against.—Centralblatt for Chirurg.k, June 23d. (Medical Record.)

THE IMPORTANCE OF CINCHO-QUININF AS A REMEDY.—The Supervising General of the Marine Hospital Service has issued a circular letter to the medical officers of that branch of the Treasury in which he calls their attention to the extraordinary increase in the market price of sulphate of quinia, and at the same time alludes to the success attending the employment of the other alkaloids of the bark.

In the year 1866 the Madras Government appointed a Medical Commission to test the respective efficacy in the treatment of fevers of quinine, quinidine, cinchonine, and cinchonidine, and the remedial value of these four alkaloids as deduced from their experiments is shown by the following statement:

Quinidine, ratio of failure pr 1000 cases, 6 Cinchonidine, " " " " " " 10 Quinine, " " " " " 7 Cinchonine, " " " " " " " 23

Cincho-quinine contains all these alkaloids, and the combination has proved more efficacious than any one alone; and the price of this article being less than one half the present price of sulphate of quinine, the physicians of this country are substituting it for the sulphate. The medical officers of the Government service should give this subject due consideration in preparing their requisitions for medical supplies.—Washington, D. C., Daily Nation, August 8, 1877.

A New Method of Curing Popliteal Anniers.—Dr. Martin Burke, of Bellevue Hospital reports three cases of popliteal aneurism, that we cured by compression of the femoral artery is means of a conical bag filled with shot, which we suspended from a height in such a way that the apex of the cone pressed on the artery in Scarpat triangle. In the first case pulsation in the aneutrism ceased in eight days; in the second, in sixteet days; and in the third, in six days. The curves slow in the second case, on account of the patient's neglect to keep the apparatus in plant During the treatment little or no pain or uneasines was complained of in any of the cases.

The shot-bag was made of canvas, in the for of a flattened cone, the apex measuring one ind in diameter. A rounded piece of cork or Indi rubber, one inch in thickness, was fitted accurate into the apex of the cone, and a long thin m reaching down to and resting on the rubber or co was then inserted and held in the middle of cone while the shot was poured around it, un the bag weighed about twelve pounds. of canvas, with a hole in the centre for the pass of the rod, was then stitched over the base of t bag, and a stout wire hook fastened to its cent The bag was suspended to a pulley in the ceilig by means of a rope, with which it was connect by a piece of rubber tubing and a large-link The tubing made the apparatus elastic and the chain enabled the Doctor to regulate mo easily the amount of pressure employed.—A York Medical Fournal, June, 1877.

Gour Successfully Treated by Salicia Acid. — Dr. Ruhe contributes to the Data Zeitschr. f. fr. Med. the account of an exceeding obstinate case of gout, which had resisted all of forms of treatment, but which was promptly relied by the free administration of salicylic at About two and one-half drachms were given ing the first twenty-four hours. By the third the patient was entirely free from pain, and again able to walk about. His appetite was regarded, and at the time of the report, seem months after treatment, no relapse had the place.—Allg. Mel. Cent. Ztg., No. 64, 1877.

A PULSE OF TEN BEATS PER MINUTE IS 19 ed in the Paris Gaz. Medicale. The case pernicious algid fever. After several hours at stated rate, it rose to twenty-five, and confirm twenty to twenty-eight for three days. patient died.

ESMARCH'S BANDAGE is already losing farmamputation, owing to frequent excessive cap hæmorrhage following its use. Surgeons assuming the old tourniquet.

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THE CANADA LANCET.

A Monthly Journal of Medical and Surgical Science

Issued Promptly on the First of each Month.

Communications solicited on all Medical and Scicommunications solvetted on all medical and ste-entific subjects, and also Reports of Cases occurring in practice. Advertisements inserted on the most liberal forms. All Letters and Communications to be addressed to the "Editor Canada Lancet," Toronto.

AGENTS. - DAWSON BROS., Montreal; J. & A. McMillan, St. John N.B.; J. M. Balburn, 805 Broadway, New York, and Balbiere Tixball & Cox, 20 King William street, Strand, London, England

TORONTO, OCT. 1, 1877.

CANADA MEDICAL ASSOCIATION.

The Association held its tenth annual meeting at Montreal, on the 12th and 13th ult., and was preided over by Dr. Hingston, the worthy president, with his usual grace and ability. The meeting surbassed in success and general interest all that have breceded it. The attendance, although not large. made up in quality what it lacked in numbers, for eldom have we seen such an array of distinguished men assembled together, as on this occasion. Gods seemed to have been propitious for the weather was Elysian itself, while from over these as fere present the Right Hon. Dr. Lyon Playfair, C.B., and his fellow traveller, Dr. Taylor, of Edin-From the neighbouring Republic were such men as Kimbail and Brodie, representatives If the American Medical Association, and from Sur own fair Dominion we had a goodly array of epresentative m n. The President's Address, an epitome of which will be found in another column, gas masterly and exhaustive. To follow him through the various subjects and lines of thought bggested would be a work of supererogation, but there is one or two points to which we desire to draw attention. First, his advocacy of a higher tandard of general educational attainments before entering upon the study of the profession, preferaing that all should be possessed of a degree in he case arts, if possible, was in the right direction. It has geen too painfully noticeable among many medical students during the past, and among numbers of practitioners that their early training must have

been either woefully misdirected or altogether ne-

dected, and hence we have numbers of men in the

profession to-day who, in everything aside from

many skilled artizans are infinitely their superiors, and yet we have known such men occupying professional chairs in teaching bodies. This ought not to be, and in a profession that is ranked as one of the learned professions there should be admitted no literary ignoramuses. A good preliminary training is the surest diciplinary preparation for the study of an exact science, besides affording a vast fund of useful collateral information which is of infinite value to a well instructed practitioner.

Another subject alluded to, viz., the prevention of offspring, is becoming a growing evil among some portions of society, even in Canada, as well as in the bordering States where the evil has assumed alarming proportions. The duties of motherhood are repugnant to many of the respectable (?) women of modern society,-and not alone among the unmarried unfortunates are these evils to be looked for-but also among the middle and upper classes, where too often the husband is quite as intent upon the evil course, out of considerations of false kindness towards the woman, as the woman is herself.

In other matters the address abounded with information and valuable suggestion, and altogether was quite in keeping with the author, the circumstances and the occasion.

In the Medical Section over which Hon, Dr. Parker so ably presided, several very interesting papers were read and discussed. The paper of Dr. Howard on "Tricuspid Stenosis." accompanied by the specimen preparation was most interesting, and the explanation following the discussion cast much light upon what to most practitioners is a very rare and little understood affection. Dr. Hornibrook's paper on the "Plea of Insanity," was thoughtful, clearly defined and interesting. Owing to the importance of the subject, and also as a mark of respect, Dr. Workman's paper on Crime and Insanity was reserved for reading in the It was the paper of the Assogeneral session. ciation, and deserves to be widely circulated not only in the medical but also in the popular press, from its valuable information and suggestions respecting the relations between crime and insanity. Its reading was followed by the passing of a resolution in regard to the "plea of insanity," brought forward by Dr. Hornibrook, and amended in the general session. It will be found in our report dinary mechanics, indeed, in general attainments of proceedings. Dr. Ross's paper on "Addison's

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sing faru geons are as illiterate as orDisease," with illustrations and specimens, excited a good deal of interest, and brought out several new and important facts concerning this rare disease.

The most interesting discussion took place in the Surgical Section, presided over by Dr. Canniff with his usual ability. In this section some of the papers on the programme, for want of time, could not be read; among others, one by Dr. Canniff on the "Treatment of Wounds." A letter was received from Dr. Rosebrugh expressing regret at not being able to be present to read his paper on "Ovariotomy." The paper by Dr. Alt, of Toronto, was brief, but of an unusual degree of Dr. Reeve, of Toronto, was down on the programme for two very interesting and practical papers, one on "Optical Defects," and the other on "Nasal Polypus." Dr. Robillard's paper upon "Gastrotomy and Ovariotomy," in which he exhibited Pean's instruments, used in the operations of ovariotomy and hysterotomy, excited considerable interest and discussion, which brought out the fact that hysterotomy had been performed for the first time in Canada by Dr. Hingson, of Montreal, who frankly admitted, however, that in doing it, he was doing more than he had intended or expected to do. It appeared from the statements of Dr. Kimball the veteran ovariotomist of Lowell, U.S., that Pean not unfrequently commenced ovariotomy by la petite operation, but finished with la grande operation.

The criticisms on the different papers were sufficiently pungent in this section, but without taking from the interest or value of any, it must be admitted that the kind and sensible criticisms of Dr. Kimball were perhaps the most interesting His voluntary criticisms were lengthy, but even after these were closed, he continued to reply to the questions of various members pre sent. Dr. Kimball seems averse to the operation of hysterotomy, and advises its performance only when intense suffering, with the importunities of the patient and friends, would render it warrantable. Neither did he consider either ovariotomy or hysterotomy as operations to make the reputation of a surgeon, since recovery often follows where least expected, and vice versa, failure ofren attends where everything seemed to indicate a reasonable hope of recovery. The addresses, papers, criticisms and illustrations, were appro-

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priate, pointed, pithy, and full of suggestion and instruction, while nothing could have exceeded the enthusiasm with which Dr. Lyon Playfair was received by the Association, or the pleasure and gratification felt by the members in listening to the very suggestive and eloquent address of one whom they had read and heard so much. was elected an Honorary Life Member. public dinner was a grand entertainment, and was largely attended. Everything, in short, passed of in the most satisfactory manner and reflected mud credit upon the committee of arrangements, and its active and obliging Secretary. Dr. Osler, of Montreal. We can hardly say, however, that we approve of splitting up the Association into two sections. It is rather premature. It makes the attendance in each section too small, and thu detracts from the interest which would arise from a more extended criticism of the papers read When the Association numbers by hundreds, will be time to think of these and other subd visions.

THE POISON IVY AND ITS REMEDIES

Poison ivy, rhus toxicodendron; poison vine climbing ivv, rhus radicans; poison sumach swamp sumach, rhus vernix; and poison elde poison dogwood, rhus venenata; are all plants the same family. Their juice, when applied to the skin, has the effect of producing inflammation ar vesication; and the same poisonous property. possessed by a volatile principle which escap from the plant itself, and produces, in certa persons, when they come into its vicinity, an ceedingly troublesome erysipelatous affection, p ticularly of the face. There is frequently itchi and redness, a sense of burning, with tumefaction vesication, and ultimate desquamation. effects begin immediately after exposure and ually decline within a week.

The principle of treatment should be based up the fact that the milky juices of these shrubs neutralized and made harmless by alkaline was and these washes may be used as preventives well as remedies. Our fore-fathers in the profesion depended upon a light cooling regimen, washine purgatives, and the local use of cold less water. Experience has proven alkaline washes

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be the most reliable remedies, such as a solution of pure carbonate of potassa, or salt of tartar. Carbonate of potash procured from cream of tartar, is preferable to that obtained from pearl-ash in these cases. It should be used of the strength of two ounces to eight ounces of water, and applied to the affected parts several times daily. Strong suds, made from soft or lye soap, white lye, ammonia water-two to three desert-spoonfuls to a a pint of water-or a little saleratus dissolved in water, are excellent washes. White lye is made by throwing two quarts of hardwood ashes into a pail of water, stirring and then allowing it to settlethe clear supernatant liquid is white lye.

When a person is exposed to the influence of these plants, which when bruised or cut, have the power of affecting some skins when several feet distant, although most persons require to touch the plant before it affects them, he should wet every part of the skin that is likely to be exposed or uncovered, with one or another of these washes, allowing the wash to dry upon the skin, by no means wiping it off. This plan is said to protect the skin from the poisonous influence of these plants. In the same manner, if one has been exposed, or fears he has, let him follow the same plan and allow the was!. to dry upon the skin.

Where the skin has already become red and swollen, and there is itching and stinging, these lotions should be freely applied by means of cloths wet with them, allowing them to dry upon the skin. Keep the patient cool and quiet, let the diet be spare and cooling, and keep the bowels gently open. Where the skin is very extensively inflamed, and the applications are made too perseveringly, it may happen that metastisis to the bronchial mucous membrane may take place, and great oppression of breathing with urgent sense of suffocation be felt. In such cases the application of mustard over the lungs affords relief. As prevention is always better than cure, persons should shun the immediate neighborhood of these poisonous plants when practicable to do so.

SMOKING ARSENIC IN PHTHISIS PUL-MONALIS.

It is a notable fact that many of our most important discoveries in medicine have been borrowed or developed from general proverbs or pre- with respect to the Chinese arsenic-smokers, called

vailing prejudices of the common people in some district or country. Thus was it with the discovery of vaccination. Sir Wm. Jenner merely deduced an important scientific truth from the vague notions and common prejudice of the dairy people of Gloucestershire, in England, who strenuously held that no one who had ever had sore fingers or hands from catching the cow-pox while milking, ever took the small-pox or could be inoculated. And this was very easily remarked, for this fell disease in those days ravaged and laid waste whole cities and districts of country, destroying its tens of thousands, without any check or relief being afforded from the physicians of the day. In like manner has it been with most of the important remedies of the now extensive materia medica, natives or common peasants in most instances affording the information which, being developed, has led to the discovery and classification of many invaluable agents for the relief of disease.

Following up this line of observation, we find the roving gypsies and horse jockeys of most countries giving arsenic as a remedy for broken wind and heaves in horses, and with astonishing success. improving the general condition of the animal, giving him a fine healthy skin and sleek coat, also removing the difficulty of breathing. The only difficulty with its use was, as they say, that once begun, it must be continued. In these cases it seems to act by stimulating the secretions generally, especially that of the skin, and improving the digestive function. This practice has been found common among the Arabs and wandering Tartars.

The northern Chinese use arsenic daily, mixed with their smoking tobacco. And according to M. Monteguy, formerly French Consul in China, tobacco free from arsenic is not sold among the northern Chinese. The Consul was assured by missionaries who had lived a long time among the natives, that the arsenic-smokers were stout fellows, with lungs like a blacksmith's bellows, and rosy as cherubs." The last statement brings to mind the fact that in Syria, Persia and Arabia, the use of arsenic is indulged in by ladies, desirous of beautifying the complexion and improving the general appearance. It is an ingredient in almost in every cosmetic of the eastern countries.

The publication of M. Monteguy's statements

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forth a letter from a Dr. Loude, who announced that some years previous in a course of a discussion at the Academy of Medicine, Paris, on the agents to be employed to cure tubercular consump-He told the assembled doctors that he had found but one successful means of combating the dreadful disease-that means, was the smoking of arsenic. He reaffirmed his commendation of the remedy. Trousseau, than whom few are more eminent, recommends the inhalation of arsenic, by means of cigarettes saturated in a solution containing from 3ss.-3j. to the 3j. of arseniate of soda, in the treatment of phthisis pulmonalis. In weak states of the system, as in the course of phthisis where dropsy of the cellular tissue supervenes, arsenic is found beneficial in removing the anasarca, apparently acting as a tissue stimulant. While not forgetting the dangers of an over dose of thist remedy, we feel from personal observation of its beneficial effects in lung troubles, including phthisis with emaciation, especially bronchial phthisis, spasmodic asthma, bronchitis and catarrhal affections, when smoked in the form of the arsenious acid commingled with a just propertion of stramonium leaves and lobelia, with nitrate of potash to secure combustion, that it cannot be too highly recommended in the treatment of lung affections,

Contagion of Typhoid. — At the close of a series of lectures on the laws of health, recently delivered in London by Dr. W. H. Corfield, Professor Tyndall made a few remarks upon the germs of disease. Referring to the action of decomposing animal matter in giving rise to disease, he said that for twenty years he had been in the habit of visiting the upper Alpine valleys, where, among the Swiss chalets, there was the most abominable decomposition constantly going on, and there were also exceedingly bad smells; but in that region such diseases as typhoid fever and small-pox were ordinarily entirely unknown. If, nowever, a person suffering from typhoid fever were to be taken there, the disease would spread like wildfire from the infected focus, and would run through the whole population. He agreed with the lecturer that the contagion of each of these diseases is unchangeable in its nature, since we never find the virus of one

when its administration can be regulated by a

competent physician.

of them producing the other.

THERMOMETERS FIRST USED. - \ corresponder sends us the following copy of ar advertisement 77 years old, showing that to our grandsires the honor of introducing thermometrical aid in pra tice of medicine is fairly due, and not to the wiseacres of the present age, as generally believed The following is a verbatim copy of a notice pul lished in the Medical and Physical Fournal, January 1800. MEDICAL THERMOMETERS.—Dr. Currie, his excellent work on fever, having evinced the gre benefit often derived from the affusion of col water, practitioners in the army and navy, as wella physicians to public institutions, became desired of availing themselves of the use of a remedy cheap, pleasant and efficacious. For this purpo it was necessary to ascertain the heat of the box with a degree of precision, for which the hand the practitioner can seldom be relied on; therm meters were therefore recommended, and we have at length obtained a specimen that appears perfect satisfactory. The scale is attached to the tube and the whole instrument is contained in a cylindric case about five inches long, and a quarter of inch in diameter; therefore sufficiently portable. As the instrument is designed for the purpod

is so sensible that it will indicate the heat applicapills, of : to it in less than ten seconds, and the scale my be read to a quarter of a degree. It will bottle pate scarcely necessary to caution our readers again, New medicated immersing it in fluids of a temperature higher the was repres 112°, as it might endanger the instrument. Gentlemen in the country may be supplied w Ont., who such thermometers as above described, or will

those of more extensive scales, if desired, by All

and Howard, Chemists, Plough Court, Lombig

Street, at about 18 shillings each.

of ascertaining the heat of the human body,

range is very limited in order to obtain the requisit

sensibility; it extends from about 80° to 112°, and delphia, s

ETHER AS AN ANÆSTHETIC.—It cannot be BRANT often repeated that ether is a much safer anæsil the regular tic than chloroform. The danger of ether is fig held in the the side of respiration, that of chloroform from following go heart, and this fact explains their relative safety jing year: In chloroform narcosis, the danger resident; much mcre sudden; ether gives warning. TORONTO former produces syncope, which is sudden has resigned unexpected, the latter asphyxia, which is a st process, and being plainly visible can be remediation.

at any moment by admitting air to the lungs.

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AMERICAN PHARMACEUTICAL ASSOCIATION .esponder The 25th annual meeting of this Association, met ertisemen at the City Hall, Toronto, on the 3rd ult., Mr. idsires the Chas. Bullock, President, in the chair. d in prac ot to the believed

Several of the manufacturing chemists exhibited their preparations in the Temperance Hall. Powers & Weightman, of Philadelphia, made a most magnificent display of chemicals, covering 180 square feet, and valued at \$11,000. Their table extended across the hall, and was flanked by a byramid of sulphate of quinine weighing over 150 ounces at the one end, and by a pile of sulphate of morphia, weighing over 300 ounces, at the other. Wyeth & Bro., Philadelphia, make a specialty of compressed medicinal powders, (so-called pills) of the United States and British Pharmacopœia. These embrace the principal formulas in use for pills, and are compressed dry in lenticular shape, are porous, and hence disintegrate and dissolve readily. W. H. Schieffelin & Co., New York, howed a complete list of soluble coated pills, prepared according to the United States Pharmacopæia. McKesson & Robbins, New York, showed perfumery, chemicals, and alkaloids, but make a specialty of gelatine coated pills. Of these they make all the varieties of British and United States pharmacopœias. Wm. R. Warner & Co., Philadelphia, showed a large variety of sugar-coated pills, of soft substance and hard coating; also, scale manufuid extracts, and a handsome druggists' shop bottle patented by themselves. Seabury & Johnrs again son, New York, showed a large assortment of igher the medicated, court, and surgeons' plasters. Canada was represented by Wm. Saunders, of London, Ont., who showed a fine lot of fluid extracts.

A conversatione was held in the Normal School , by All in the evening, and was a pleasant affair. Mr. Lombe Saunders, of London, was chosen President for the ensuing year, and the place of meeting, Atlanta, Georgia, on the 3rd Tuesday of Sept., 1878.

BRANT COUNTY MEDICAL ASSOCIATION.—At the regular quarterly meeting of this Association held in the Kerby House, Brantford, Sept. 4th., the e salety kering men were elected officers for the enstiing year: Dr. Philip, President; Dr. Burt, Vice-President; Dr. Harris, Secretary-Treasurer.

> Toronto Eye and Ear Infirmary.—Dr. Reeve has resigned his position as surgeon to this Institu-

A WELL DESERVED PUNISHMENT.—At the Court of Queen's Bench held at Sweetsburg recently, Sears, who made an outrageous assault on the liberty and person of Dr. Baigham, of Phillipsburg, Missisquoi, Que., was convicted of robbery. On the pretence of bringing the doctor to see a patient a number of miles away, Sears decoyed him in the middle of the night to his (Sears') house, and there attempted to force him to sign some papers under threats of murder. His Honour Judge Dunkin condemned the prisoner to ten years in the penitentiary for the crime.

HYOSCYAMIN IN INSANITY. - The use of this remedy in the treatment of the insane has been tried by Dr. DeWitt, Medical Superintendent of the Longview Asylum, Ohio, who speaks very highly of its value. He contrasts it with chloral and opium, and says that it has, in addition to the hypnotic effect, a curative action. It appears to be especially indicated in recurrent mania and melancholia with depression. He gives it in doses of one grain of the alkaloid.

DEATH.—It is our melancholy duty to record the death of another young and prominent member of the profession, J. D. Cline, B.A., M.D., house surgeon of the Montreal General Hospital. He was deservedly held in the highest estimation by the profession, and all who knew him. His death resulted from an attack of malignant diphtheria which is now prevalent in Montreal.

Cause of Disease.—Sir Henry Thompson says: I have visited rich and poor, high and low, all my life, and I solemnly declare that the great bulk of the diseases with which I have had to deal arose from the drinking of intoxicating liquor. I do not mean what people call drunkenness, but the regular steady customs in which most of us indulge every day of our lives.

ARTIFICIAL EYES.—Between 8,000 and 10,000 artificial human eyes are sold annually in the United States. The average cost of an eye is \$10, and the color for an eye most in demand is what is known as "Irish blue." Christian Hohn, a New York German, makes glass eyes for horses that will defy detection by all except accomplished experts.

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BEWARE OF GAS.—The last number of the Lancet reports the death of a surgeon in Manchester who inhaled gas for the purpose of having teeth extracted. The patient insisted on having the gas given to produce its full effect. When the operation was completed it was found impossible to rouse him. 'The post mortem showed fatty degeneration and valvular disease of the heart.

Appointments.-J. Mahaffy, M. D. of Clarksville, to be an Associate Coroner for the County of Simcoe. Dr. Wm. McNaughton Jones has been On the use of Large Probes in the Tr appointed Medical Superintendent of the British Columbia Insane Asylum. Dr. J. D. Bryant has been appointed lecturer on Anatomy in Bellevue Hospital Medical College, in place of Prof. A. B. Crosby, deceased. J. S. McCallum, M.D., of Smith's Falls, to be an Associate Coroner for the County of Lanark.

Personal.—Dr. G. S. Ryerson, of Trinity Medical School has been appointed house surgeon of the Royal London Ophthalmic Hospital, Moorfields. He is also clinical assistant at the Central London Throat and Ear Hospital, Gray's Inn Road.

INTRODUCTORY LECTURES OF THE MEDICAL Schools.—The introductory Lecture of the Medical Faculty of McGill College, Montreal, was delivered by Prof. Osler; Bishop's College, by Prof. Kollmyer, and Trinity Medical College, Toronto, by Prof. Kennedy.

VITAL STATISTICS.—The number of births, deaths, and marriages registered in Toronto during the month of September, are as follows: births, 178; deaths, 162; marriages, 96.

Books and Lamphlets.

AIKEN AS A HEALTH STATION, by W. H. Geddings, M.D., Aiken, S. C.: Walker, Evans & Cogswell.

Some General Ideas Concerning Medical REFORM, by David Hunt, M.D.: Boston: A. Williams & Co.

Excision of the Lower End of the Rectum IN CASES OF CANCER, by John B. Roberts, M.D., Philadelphia: Sherman & Co.

COSPULENCE TREATED WITHOUT STARVA or, How to Get Thin, by M. M. Gr M.D., Parsons, Luzerne County, Pa.

THE USE OF OBSTETRIC FORCEPS IN ABREVIA THE SECOND STAGE OF LABOR, by Edward Dunster, M.D., Ann Arbor Medical College

PATHOLOGY AND TREATMENT OF SPRAINS Richard O. Cowling, A.M., MD., Prof. of O ative Surgery, University of Louisville: P. Morton & Co.

MENT OF STRICTURES OF THE NASAL DI by Samuel Theobald, M.D., Baltimore Eye Ear Dispensary; Faculty of Maryland, 1877

THE MEDICAL INTELIGENCER, containing a of new books, and a classified list of other w Also a condensed classified list for the poo (Free.) Philadelphia: Lindsay & Blakiston

PRACTICAL HINTS ON THE SELECTION AND TO USE THE MICROSCOPE, for beginners John Phin, Editor of the American Journa Microscopy. Second edition, illustrated enlarged. New York: Industrial Publication

This is a small but very useful and pract book, wholly intended for beginners. It give full description of the various parts of the mi scope and their uses, together with information regard to the preparation and mounting of mens, dry and moist. The work is an almost dispensable accompaniment of the microsom and should be in the hands of all who are mencing their microscopical studies.

Births, Marriages and Deaths.

In Toronto on the 8th ult., the wife of Drill Burns, of a son.

In Toronto on the 9th ult., the wife of Dr. T. Fisher, of a daughter.

At Embro, Fitzgerald Sutherland, M. D Norwich, to Jean eldest daughter of D. Mathe

On the 18th ult.., by the Rev. G. G. McR of Tilsonburgh, (brother-in-law of the bride) H. Newton, M. D., to Helen, fifth daughter Robert Thomson, Esq., Port Stanley.

^{*} The charge for notice of Births, Marriages and less is fifty cents, which should be forwarded in postage is with the communication.