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CANADA LANCET.

WILLIAM EDWARD BOWMAN, M.D., EDITOR,

WHOLE NO., 15.

MONTREAL, MAY 15, 1864.

SECOND YEAR.

TRICHINA SPIRALIS.

BY W. KELLER OF DARMSTADT.

logatains, in Germany. Upwards of a hundred ersons sat down to an excellent dinner, and havnd went to their homes.

Of these hundred and three persons, mostly men the prime of life, eighty-three are now in their raves; the majority of the twenty survivors linger ritha fearful malady; ar I a few, only, walk appaenly un-cathed among the living, but in hourly per of an outbreak of the disease which has carried was such numbers of their fellow-diners.

They had all eaten of a poison at that festive card, the virulence of which far surpasses the reorted effects of aqua lophana, or of the more tan-ible agents described in toxicological text-books. I was not a poison either dug out of the earth, exacted from plants, or prepared in the laboratory the chemist. It was not a poison administered r design or negligence. It was a poison unnown to all concerned; and was eaten with the est in which it was contained, and of which it med a living constituent.

When the festival at Hettstädt had been deterined upon, and the dinner had been ordered at the otel, the keeper of the tavern arranged his bill of The introduction of the third course, it was ttled, should consist, as usual in those parts of ecountry, of Rosewerst und Gemuse. The Rose was therefore ordered at the butcher's, the cessary number of days beforehand, in order to low of its being properly smoked. The butcher, his part, went expressly to a neighboring pro-tetor, and bought one of two pigs from the stewwho had been commissioned with the transacm by his master. It appears, nonever, that the ward, unfortunately, sold the pig which the mas-had not intended to sell, as he did not deem it Exceptly fat, or well-conditioned. Thus the roag pig was sold, carried on a barrow to the teher, killed and worked up into sausages. The reages were duly smoked and delivered at the real. There they were fried and served to the ut at the dinner-tuble.

On the day after the festival, several persons who participated in the dinner suffered from irritaof the intestines, loss of appetite, great prostra-and fever. The number of persons attacked dily increased; and great alarm was excited in East instance, by the apprehension of an impend-Repidemic of typhus, or continued fever, with lich the symptoms observed showed great simrity.

intercostal muscles and the muscles in front of the neck, the hypothesis of septic fever, though sustained in other cases, had to be abandoned with A few months ago there was a festive celebration respect to these particular ones. Some unknown t fletistalt, a small country town near the Hartz poison was now assumed to be at the bottom of the outbreak, and an active inquiry into all the circumstances of the dinner was instituted. Every g enjoyed themselves more majorum, separated article of food and material was subjected to a most rigid examination, without any result in the first instance. But when the symptoms in some of the cases invaded the muscles of the leg, particularly the calves of some of the sufferers, the description which Zenker had given of a case of fatal trichinous disease was remembered. The remnants of sausage, and of pork employed in its manufacture, were examined with a microscope, and found to be literally swarming with encapsuled triching. From the suffering muscles of several of the victims small pieces were excised, and under the microscope found charged with embryonic triching in all stages of development. It could not be doubted any longer, that as many of the one hundred and three as had partaken of Restewarst had been infested with tri-chinous disease by eating trichinous pork, the parasites of which had, at least in part, escaped the effects of smoking and frying.

This awful catastrophe awakened sympathy and fear throughout the whole of Germany. Most of the leading physicians were consulted in the interest of the sufferers, and some visited the neighborhood where most of the afflicted patients remained. But none could bring relief or cure. With an obstinacy unsurpassed by any other infectious or parasitic disease, trichiniasis carried its victims to the grave. Many anthelmintics were arrayed to destroy, if not the worms already in the flesh, at least those yet remaining in the intestinal canal. acid was employed until its use seemed as dangerons as the disease; and benzole, which had promised well in experiments upon animals, was tried without avail. Subsequent dissections proved the parasites to have been unaffected by the agents employed

But medical science had unravelled a mystery; and if it could not save the victims, it was determined, at least, to turn the occasion to the next best account. The cases were therefore observed with care, and chronicled with skill. All the multifarious features of the parasitic disease were registered in such a manner, that there can hereafter be no difficulty in the diagnosis of this disorder. A valuable diagnostic feature was repeatedly observed -namely, the appearance of the flesh-worm under the thin mucuous membrane on the lower side of the tongue, and the natural history of trichina in man was found to be the same as that in animals.

All observations led to the conviction that the but when, in some of the cases treated by the trichina encapsuled in the flesh is in the condition of puberty. Brought into the stomach, the calcalicate at first acute peritonitis, then pneumonia reous capsule is digested with the flesh, and the distance is set free. It probably feeds upon the circumscribed character, next paralysis of the trichina is set free. It probably feeds upon the

walls of the intestines themselves; for the irrita-| but pork was eaten, but it has had no appreciable tion of the intestines commences before the bring- effect : the raw ham and sausages of Germany are ing forth of the young trichinize. Copulation is doomed to extinction. The smoked and fried sagimmediately effected; and within a few hours, from ; sages likewise must necessarily be avoided. sixty to eighty live embryos leave the female, and begin their own career of destruction.

This consists, in the first instance, in an attempt to pierce the walls of the intestinal canal. Great, one form or other. Several were affected with inflammation of the entire surface ensues, ending not rarely in death of the villous or mucous membrane, or in the formation of masses of pus on its surface. Sometimes there are bloody stools. But; these severe symptoms only ensue when much trichinous meat has been eaten. When less has been consumed, pain and uneasiness in the abdomen are produced, accompanied, however, in all instances, by wasting, fever, and prostration. The embryos actually pierce the intestines, and are found free in the effusion, sometimes serous, sometimes purulent, which is always poured out into the abdominal cavity. Thence they again proceed towards the periphery of the body, pierce the peritoneum, causing great irritation, and sometimes peritonitis, to the extent of gluing the intestines together into a coherent mass. They next proceed to the muscles nearest to the abdomen; arriving at the elementary muscular fibres, they pierce the membranes, enter the fibres, eat and destroy their striated contents, consume a great part of the granular detritus, and move up and down in the fibres until grown to the size necessary for passing into the quiescent state. They then roll up in spiral or other irregular windings, the bags of the muscular fibres collapse, and where the triching lie a calcareous matter is deposited, perhaps by the trichinæ themselves, which hardens into perfect capsules around the parasites. A muscular fibre may harbor one or several parasites; but every fibre invaded by a single parasite loses its character entirely, and becomes a bag of detritus from one end to the other.

If it be remembered that one onnce of meat filled with trichinæ may form the stock from which, in a few days, three millions of worms may be bred; and that these worms will destroy in the course of a few weeks not less than two millions of striated muscular fibres-an idea of the extent of destruction produced by these parasites can be formed. We are not in a position to say to what proportion of the fifty or sixty pounds of muscle required for the performances of the human body these two millions of elementary fibres actually amount. In the muscles nearest to the abdomen, the destruction is sometimes so complete, that not a fibre free from parasites can be found. This amounts to complete paralysis. Put death is not always produced by the paralysis; it is mostly the result of paralysis, peritonitis, and irritative fever combined. No case is known in which trichiniasis, after having declared itself, has become arrested. All persons affected have either died, or are in such a state of prostration that their death is very probable.

Most educated people in Germany have, in consequence of the Hettstädt tragedy, adopted the law of Moses, and avoid pork in any form. To some of the large pig-breeders in Westphalia, who keep as many as two thousand pigs, the sinking of the price of pork has been a serious loss. In the dining-rooms of the hotels in the neighborhood of Hettstädt, notices are hung up announcing that pork will not be served in any form in these establishments. To counteract this panic, the farmers' club of the Hettstadt district gave a dinner, at which no other meat

A merchant vessel shipped a pig at Valparaiso, which was killed a few days before its arrival at Hamburg. Most of the sailors are of the pork in triching and died. Of those whose fate could be inquired into, one only seems to have escaped the parasites. Another outbreak in Saxony has carried away twelve persons. A fourth wholesale poisoning by triching is just reported from Offen. bach, the Birmingham of Hesse-Darmstadt. Of upwards of twenty persons infected, three had already died when our correspondent's letter left.

Numerous sporadic cases of fever, and epidemia of inscrutable peculiarity, but referred to an ansmalous type of fever, are now claimed by medical authors, and with much show of reason, to have been outbreaks of trichiniasis, or flesh-worm disease.

Prof. Eck hardt at Glessen, we are told, has obtained permission to try the disease and supposed remedies upon a murderer under sentence of death. We have not been informed that his reward in case of success is to be a commutation of his capital sentence; but should hope it to be the case. The experiment, even should it not have the romante character indicated, will probably teach some curous details of the life of these parasites.

A due regard to cleanliness would prevent trick ine in the pig. In wild boars, of which many an eaten in the country around the Hartz Mountain, triching have never been found. Neither have the been met with in sheep, oxen, or horses. Beef it the safest of all descriptions of meat, as no parasits have ever been discovered in it. They have also never been found in the blood, brain, or heart, d those animals in whose striated muscles they lon to reside .- Am. Jour. Med. Sciences.

The author of the above article has exaggerate the fatality of trichiniasis, which is only the great when large numbers of the parasites are # work at the same time in the system.

Dr. Althaus, in an ably written article in the Medical Times, gives an excellent summary of all that is at present known on the subject; from itm

abstract the following facts:

Trichinæ were first discovered in England, wies in 1832 Mr. Hilton noticed in the human subs the minute cysts in which they are found enclosed and which appear to the naked eye as small win corpuscles. In 1835 Professor Owen observed these cysts contained worms, to which he gavet name of tricking spiralis, from their resemblance a hair in size, and their being coiled up into spirit turns like a watch spring.

They are so minute that three of them stretche to their full length do not exceed a sixteenth of inch; but when once in the stomach and freed for their cysts, the trichine awake, perhaps from * torpor of years, and beginning to move about the lose their spiral figure and appear some what simil to ascarides. They here increase rapidly in grown the female often acquiring the size of an eighthe an inch. Copulation commences a few days 🌬 the animal enters the intestinal canal, and in weeks, having borne from 300 to 500 of their pogeny, they cease to exist, for after this period trace of either males or females is to be discovered The embryo on commencing their individual enter

ence, is extremely minute and quite transparent, and possessing the power of rendering their heads extremely sharp, they pass through the tissues without leaving any visible traces of their migration. Their course seems somewhat arrested by the tendonous insertion of muscles, at which part, they may usually be found most abundantly. Tricking which have not yet become encysted can only be recognized by means of a magnifying power of fifty. The deposit of chalk about the ersts generally requires months for completion, and gives the flesh the appearance and sensation through them with a knife.

The American Medical Times tells of a case in, which the triching were yet alive after ten years', torpor. Even when there are but few to be found they exist widely scattered throughout the whole of muscular tissue of the body, excepting, perhaps, that of the heart.

Since their discovery, in 1835, the triching have frequently been noticed in different parts of the world. It was, however, only in 1860 that more minute investigations concerning their nature and development, were made by Professors Virchow, Leuckart, Zenker, and others. Zenker was the first to recognize these parasites as being the cause fillness and ceath, before which time they were considered more as a curiosity than a source of danger.

In the spring of 1862, about thirty cases of trichins disease occurred in Planen in Saxony. Small pieces of muscular tissue were excised from some of the patients and examined by means of the micoscope, and thus, for the first time, the diagnosis of trichiumsis was made in the living subject. Since then numerous cases of it have been observed indifferent parts of Germany, and no doubt many have occurred elsewhere which have not been reognized by medical men.

The disease produced by these parasites may be

divided into three stages.

The first, including the period from the arrival of the traching into the stomach, until the birth of the first of the progeny, is merely accompanied by les of appetite and general malaise, and lasts usually from four to eight days.

The second and most important stage, comprising the morbid symptoms produced by the migration sibe young from the bowels to their permanent. abode in the muscular tissue, sets in with rigors, best, quick pulse, loss of appetite, pain in the abdemen, either profuse diarrhan or what is more frequent obstinate constipation, general prostraacter sometimes accompanied by delirium. Among be many other symptoms may be enumerated dysman, hoarseness, and ordems of the face, from sichinous invision of the muscles of the chest, bejux and .ace; the swelling in the extremities blows a later period and closely resembles that of the matic fever, with this difference that the bials never suffer from these parasites. The fever son becomes more asthenic in type, profuse perwistion sets in, miliary vesicles appear on the erace, the mind wanders, meteorism, diarrhou, emoptoe, lobular pneumonia, effusions in the Mara, &c . take place, and death soon closes the The average duration of the second stage

early as five days after the attack. Pregnant women generally abort during this period.

The third stage, or chronic trichiniasis, commences as soon as the parasites have taken up their permanent abode in the substance of the muscles, which remain weak and stiff for months. In a few cases, baldness of the head, desquamation of the skin, and painful boils have been observed to follow.

Dr. Althaus expresses the opinion that many practitioners in Great Britain and elsewhere may recollect cases of this kind, which have, at one time or another, fallen under their notice, and which, in as if containing sand, and grates on cutting the absence of sufficient information on the subject, have most likely been set down as forms of typhoid

> I real ment. -- Emetics and purges prove useful when given very early. For the muscular pains, warm anodyne fomentations may be employed. When the fever is very severe mineral acids and digitalis are the best remedies, and care must be taken regularly to empty the bowels and bladder. Fomentations of vinegar may be employed for the profuse perspiration and miliary vesicles; and diuretics for the cedema, as the kidneys ne er suffer in such cases. The vital powers must be constantly sustained and stimuli liberally prescribed when necessary. Finally the patient should never be informed of the nature of his complaint. W. E. B.

> RED BLOOD IN THE VEINS .- Dr. Brown-Sequard arrives at the following conclusions regarding the colour of venous blood. 1. The blood is of a less deep color in the veins of limbs paralysed by section of their nerves or by destruction of a part of the spinal cord, than in the veins of sound limbs. 2. The diminished depth of color in the veins of paralysed limbs is due, at least in part, to the state of inaction of the muscles. 3. Paralysis of the blood-vessels may also produce a reddish color in the venous blood. 4. It is especially through their influence in exciting muscular contraction, that the nerves and galvanism increase the intensity of the dark color in venous blood .- Br. Med. Jour.

> PARALYSIS OF THE FACIAL. - Hipodermic injections of strychnia have been successfully employed by a French surgeon for the removal of this form of paralysis. He employs a solution of one grain to a drachm and a-balf of water, and injects from 8 to 16 minims along the course of the facial between its point of exit and the neck of the inferior maxilla, repeating it every second or third day. He increases the strength of the solution up to 1 in 70 if required; and finds in favorable cases the faculty of movement to become permanently restored in from ten days to a fortnight .- Cincinnuti Lance: and Obs.

THYROIDEAN LARYNGOTOMY.—Professor Bæckel, of Strasburg, relates a case of thyroidean laryngotomy which he lately performed in order to remove a number of polypoid vegetations situated behind the glottis, and threatening death from suffocation, in a young girl. He turned back the pieces of the thyroid cartilages like opening a bool,, and in this way readily reached the morbid growths. The wound was afterwards canterized with nitrate of meroury. The tissues slowly healed, and the patient sent back to the country perfectly cared of the fits of sufforation to which she had been previously subject. The from three to six weeks, although fatal issue may ultimate result was not ascertained, as she afterwards this place much sooner and has been known as i died of a disease of which M. Bosckel could get no account. Of course by this operation the voice is would this, in our opinion, present medical men destroyed; it is therefore not available except in similar cases of emergency. Bruish Med. Journal.

Canada Lancet.

MONTREAL, MAY 15, 1864.

A somewhat bitter controversy bas recently arisen in Great Britain, from the death of a poor woman; at Birkenhead, from post-partum harmorrhad. The every successwoman, it appears, had engaged no doctor to attend her, and at the last moment. Several that were hastily summoned, refused to have anything to do with the case, and the patient died in consequence of the delay.

The British Medical Journal defends the conduct of these physicians, on the ground that this woman support of the Universities of Glasgow and Abertalist and the Control of the Universities of Glasgow and Abertalist and Editor of Chargom and Charg of these pursicians, on the head that a medical deen, but is opposed in the University of Edinburgh man should no more be called upon to work for it without remuneration, than a lawyer, or other member of it. That the system of gratuitous medical zervices, hitherto so widely Riven, has had but one tendency, namely, the degradation of the worm, and is the only one given in the new plant profession in the estimation of this very public, macopera. It is as often tyled, the oil of male fen That it is the business of so ety to provide for the and is made by exhausting the root, by Percolation and the state which is afterwards distilled off learning to the land of the land o payment of the doctor, when called to cases of this with other, which is afterwards distilled on, learning payment of the doctor, when called to cases of this a dark, oily liquid of the consistence of treads kind. That those who complain of the conduct of We have always been very successful with this control. the Birkenhead physicians should but their hands tract, and generally prescribe for our patient in into their pockets and form a fund for this purpose; one drachus doses; directing the first to be takens and, that these doctors are going the right way to work, to teach the community their true value, by refusing to attend cases without being paid.

higher view of the subject, holds that the doctor is with the oil is released the next morning. morally and socially constrained to give his served inects from 1 wo to four drachms as a dose pr ices to all. That it is his duty, first to save life when endangered, afterwards to seek remuneration. That a little knowledge of the world, and a little humanity, would keep most men from throwing away their services on those who do not need them, of the 9th April, by Dr. J. D. Rendle, of litiger on the one hand, and from allowing a woman to Surrey, which we here subjoin. It will be percent perish from want of help, on the other. That to the part of our treatment, namely, the fasting refuse our assistance in such cases, is to violate the first rule of morality. should have other and nobler ends in view than mere pecuniary interests.

We need hardly say that we perfectly agree with the Times, in condemning any human being, what- day of admission, the treatment is commenced ever be his calling, who would refuse to employ giving an ordinary two ounce mark where the following day all solid food is forbidden, but the following day al every means in his power to save the life of a fellowing the following day all said food is forbiduen, but a low creature. We nevertheless consider it the duty of the public to appoint visiting physicians to each district, on whom the poor may have gright to call this day, half an ounce of castor oil is administed in case- of emergency; and that those physicians four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the black draught, two six four hours after taking the properties of the following day all salid food is forbiduen, but almost unlimited supply of heef-ten is allowed even milk, which is said to be the favorite foo? should be properly paid for their services. Nor drachms of the oil of male-fern are given, suspen

from continuing, as they have ever been, foremost in deeds of charity as it would have no other effect than to give them the liberty of selecting the objects of it. Altogether we are glad that the subject is being agitated, and hope that it will be productive of benefit both to the general and the medical work

We have received the first few numbers of a new Weekly periodical "The New-York Medical Inde-Pendent and Pharmaceutical Reporter. It seem to be ably conducted, and well supplied with original nal articles by talented contributors. We wish it

> UNIVERSITIES OF SCOTLAND -A movement is at Present on foot in the Scotch I nicersities to reduce the lectures on midwifery and materia medics w three months' courses, and to transfer these classes from the winter to the summer session. This in-provement (?), in which the English schools some time ago set the example, has we understand the -Medical Circular.

EXTRACT OF MALE FERN.

The ethereal extract is the preparation of make fern usually employed for the expulsion of tage Syrup or muchage after a day's fast, and the secon in three hours, with an ounce of easter oil. And if, on thorough scarch, the head cannot be discored to have passed away with the evacuation The Medical Times, on the contrary, taking a nothing but a little gruel is allowed, and the de-

Betle in his work on the Microscope (p. 36" reira () says from 30 m. to a drachm; while Christison (490) gives but 18 m. at night, and similar dose in the morning.

We have been led to this subject on reading som excellent remarks in the British Medical Journal that his mode does away with the most objection

"In every case of tape-worm which I have treat And that m dical men for the last three years, the mode of preparing patient, the dose of the male-fern, and the wars which it was given, have been the same; all Which I will now briefly describe. The patient sent to the infirmary, and late in the evening ont

result without an exception, in every case which I have thus treated, has been the espulsion of a dead worm within two hours after taking the remedy, and in one instance the worm was passed in fifteen ' minutes.

"I have had no difficulty in getting the patients m submit to this mode of treatment, nor have they complained of hunger. In order however, to enshie them to hear without much discomfort the prolonged abstinence from solid food, the supply of good beef-tea has, as I have stated, not only been mlimited, but each patient has also been kept in hed during the whole of the treatment.

"The principle of this mode of treatment is, evidently, simply that of emptying the stomach and small intestines by abstaining from all solid food, and by purging; and so, by thus thoroughly uncovering the worm, exposing it to the full and

almost immediate action of the remedy.

al have never, in a single instance, given more; than one dose of the drug before the parasite was espelied; nor has the two-drachm dose given as I have mentioned, caused vomiting or troublesome parging; and in every case the worm was passed; dead, and generally in one unbroken piece. No the worm is bassed, the patients are restored to their ordinary diet

"Hefore I was in the habit of preparing patients by the Previous purging and abstinence which I have described, I generally found that the oil of mile-firm failed as a remedy for the cases under consideration; but since I have adopted the mode of treatment which I now make public, I can say that I have never known it fail; and I cannot but, feel certain that the remedy in question, if given as I have mentioned, will, invariably, first poison, and then quickly dislodge this troublesome parasite from the human body." WER

TREATMENT OF IMPOTENCE. BY WILLIAM ACTON, M.R.C.S. (Concluded.)

Cantharides turve been employed against impotence. They form the basis of the Pastilies de Serad, as well as of the nomerous pills, pastes, and opiates which constitute in the East the principal commerce of all those who sell drugs. The Spaush fly enters largely into the diacolini and other sphrodisiae preparations, still too much employed is listy. Lattemand protests strongly against the be of this drug. "The effect, he says, produced by cantharides on a healthy man has induced peraons to believe that they could restore virility lost fum excesses. Thus, charlatans, and even many legiimate Practitioners, have at all times prescribed cantharides as a graditional resource. For my own pen, I have seldom met witt, an impotent person The has not had cause to regret the use of this drag. The greater proportion have not even expereaced the momentary benefit which they expected, and in many cases the erectile tissues have become smaller than in the habitual state of repose. Some hw have "Aperica ced erections more or less energebe which have lasted a longer or shorter period; bu the loss of semen has exasperated symptoms inmananeously or very shortly afterwards.

No doubt can exist that the habitual employment of cantharides is prejudicial, but in the present day

ed in two ounces of thin mucilage of acacia. The 'when this substance is no longer given as indiscriminately as it was formerly, the surgeon may often advantageously prescribe it. Thus, when erection is feeble, when the fears of the patient greatly influence his mind, or when there is doubt of success, in the copulative act, a few doses are very advisable. But after success, the remedy should be left off, for we do not want to excite the organs frequently, as the repeated shocks on the nervous system will often only further depress the vital powers.

Phosphorus is another of the pharmaceutical preparations which the modern surgeon frequently employs in the treatment of impotence. The object is to supply that particular pabulum which the exertion of nervous influence appears to exhaust. We may theoretically infer that in these complaints there is a great expenditure of phosphorus in its various combinations, and that there may be a deficiency of this substance in the system; just as in other diseases, particularly chlorosis, there is a deficiency of iron. In either case we should supply the system freely with the element it seems to need in such a way as that it may be easily taken up and retained in the circulation. Practice, as well as theory, seems to sanction this treatment, and I must admit that phosphoric acid in combination medicine of any kind is given except that which I with syrups of orange-peel and ginger is a favorite have before mentioned; and, in a few hours after, formula with me, particularly in those cases where there is reason to suppose the semen is not secreted in sufficient abundance, or where too rapid ejaculation attends the sexual act, or when connection is attended with serious nervous depression.

Strychnine has been frequently recommended in the treatment of impotence, and, I believe, it is a very valuable tonic in cases attended with great nervous depression, whether resulting from sexual excess or any other cause. I have found it equally beneficial in those forms of impotence depending upon weak or imperfect erection. I find that it is capable of increasing the general muscular energy, and in such cases I usually prescribe it, either alone

or in combination with quinine.

Electricity must be classed among the modern remedies for impotence. I have had considerable experience of this agent; and I have every reason to be satisfied with the results. I find that it has answered best in those lethargic constitutions that require rousing, and simply demand a local stimulant capable of determining blood and nervous power towards the generative system. When, on the contrary, there is debility dependent on previous over-excitement, this, as well as every other local stimulant, acts injuriously on the system. The natient can, by means of the batteries which may now be obtained anywhere, at no great cost, apply the remedy himself. I need hardly warn other than professional readers that this should never be ventured on except under medical advice.

Marriage has been classed among the remedies for the slighter affections of the sexual organs. It is very well to speak of it as advisable, and no doubt can exist that, in the slighter cases of nocturnal emission, the cure of the complaint will be speedily effected by marriage-that is to say, sexual intercourse will cause the disappearance of the nocturnal symptom.

In practice, however, the question comes before the surgeon in a different way. A patient will complain of a variety of local sexual ailments, which perhaps he has suffered from during long periods, and when he is asked why he wishes now to be

treated, the reply often is, that as he is desirous to lignorant, fancy that they are unfit to undertake the marry, he is anxious to be informed if he may do rational duties of husband and father. so, or if he is competent to perform his marital duties. He will sometimes resort to us under the full conviction that he is physically unable to consummate the nuptials, and he is nervous at the idea of exposing himself to the chance of being found impotent. In such cases as these it is useless to advise marriage, for the patient will sometimes tell you that he has attempted connexion, failed in his endeavors, and intends remaining a bachclor for life.

Lallemand thinks that, in the slighter cases of functional disease, no doubt can exist that marriage may completely cure the patient, before continued excess or evil habit has produced those ill consequences which have been described for; "the regular exercise of organs will alone give all the energy of which they are susceptible, and those of generation are far from forming an exception to this general law. To complete the cure, it is necessary that sexual relations should be established.

In the confirmed cases, where irritation or inflammation is set up in the vesiculæ seminales, or when diurnal or nocturnal emissions take place involuntarily, the man who is injudiciously persuaded to " commit" matrimony will only aggravate the complaint. He will probably find all his previous symptoms exaggerated, and election, even under excitement, will probably not take place. And even if it does, ejaculation may precede the intromission of the virile organ, or in many cases will not occur at all.

Let his parents or advisers consider the position of this inefficient bridegroom; let them picture to themselves his disappointment, chagrin, and shame. Is it wonderful that, under such circumstances, more than one has committed suicide? But, as the professor of Montpelier has nobly observed. "What has the young girl, who is thus sacrificed to an egotistical calculation, done, that she should be condemned to the existence that awaits her? Who has the right to regard her as a therapeutic agent, and to risk thus lightly her future prospects, her repose, and the happiness of the remainder of her life?

" lintil a man has contracted these indissoluble bonds, impotence the most complete can compro-

mise the future of no one.

"It is precisely because marriage is the most sacred bond for individuals, as well as the most important for society, and because an iron law renders it indissoluble, that it is rational as well as moral not to contract it without the certainty that it will

be perfect and complete."

In practice, however, we find that the plans of parents and the advice of the surgeon are alike frustrated by other considerations. In many cases the patient is too young to marry; in other instances of spermatorrheat the dislike to marriage is such that every woman is distasteful to the sufferer, as if nature really intended to spare the victim those mental sufferings we have noted as attendants on these ill-starred matches.

Indeed my experience is that, as a general rule, there is little need to dissuade those who ought not to marry, from doing so. Our task is rather in the other direction-to encourage those nervous, hypochondrineal people to marry and be happy, who, from a lad conscience, a weak frame, the effects of depressed health, or some wild ideas of the possible | economy, and may be regarded as isomorphous

Assimilation of Isomorphus Schstances,-X Roussin has performed a series of experiments in hens and rab its, in order to ascertain whether similarity in form and composition is accompanied by any peculiar physiological properties. In one series of experiments, he investigated this question with regard to the shell of the hen's egg. This contains 30 per cent. of carbonate of lime; and he endeavored to ascertain whether other isomorphis carbonates could be made to replace the lime-salt in the shell. Accordingly, some hens, some time before laying, were shut up in wooden cages, a a distance from the ground and from any wall, and were fed with potatoes and oatmeal, or with oak meal moistened with water. With their food, the substances with which the experiments were made were mingled. The result of these experiments was that carbonates of baryta, strontia and magnesia peroxide of manganese, protoxides of iron, zine copper, tead, cobalt, or the oxides of these metals were readily . similated by the hens and eliminated in the coverings of their eggs. Alumina, sesque oxide of iron, manganese, and the oxides of antimony, were never found in the egg-shell.

Another series of experiments had relation to the The albumen and yok soft parts of the egg. yield, on calcination, a notable proportion of chleride of sodium. As the alkaline iodides, bromide, and fluorides are isomorphus with this salt, it was endeavored to ascertain whether, after their admini-tration, iodine, bromine, or fluorine, would be found in the egg. Not only was this the case, but the quantity of these elements present in the eg was remarkably large. They were apparently distributed in equal proportions between the albums and the yolk. Eggs containing bromine, iodia, or fluorine, have no peculiarity of taste; and its suggested that this observation may be made useful for therapeutic purposes.

The administration of the alkaline iodides, and especially of the bromides, was accompanied by singular phenomenon, viz., the gradual disappear ance, in some instances, of the calcareous covering in proportion to the increase of the above name substances in the interior of the egg. This occurred in hens left at liberty, and having free access ! carbonate of lime; and was not generally observed in strong birds with good appetite.

In a third series of experiments, it was ender voured to ascertain whether arseniate of lime could be assimilated and substituted for phosphate lime in the hones—the arseniates being isomorphs with the phosphates. The result was found to b that, when small quantities of arseniate of line at introduced into the food of a finale rabbit, the animal gives birth to young whose bony sheight contains a notable proportion of arequic, while their muscular tissue contains scarcely any traces The arsenical compound is also eliminated by the urine in the form of arseniate of ammonia ass maguesia.

M. Roussin concludes from his experiments, the substances isomorphus chemically are assimiland and eliminated in a like manner from the animi requirements of the young lady, on a subject of a physiological point of view. — Guzeite Méd. * which all well brought-up English maidens are Paris, and Br. Med. Jour.

POST-PARTUM HEMORRHAGE.

In an able communication on post-partum hæmorthage, now in publishing the Medical Circular, by Dr. J. L. Earle, obstetric surgeon to the Queeu's Respital, Birmingham, we select the following:

As well known, the late Dr. Rigby recommended the application of the child to the breast soon after delivery as a means of preventing postpartum hæmorrhage. I have tried this plan, and found it answered in some cases, while it failed in others. In order to apply the child to the breast, the mother is obliged to make some exertion, for the breast has to be exposed; then this plan fails very often, because the child will not or cannot suckle. The new-born infant is sometimes disinclined to suckle immediately after its birth; or it cannot do so from the mother having a small or fat nipple, or from some fault on its own side, as cleft palate, or tied tongue, for example. The mother, in her anxiety to make the child cake the hild to the breast as unsati-factory.

in its place, however, I substitute, in cases where be uterns seems disinclined to contract, a plan thich is exactly the same in principle, has all the drantages, without any of its disadvantages. It musists of compression of the breast with the hand. I'we place one hand upon the uterus, while we group the breast with the other, the uterus will be pased under the axilla of her right arm ; the hand 'illustration of the results of this treatment : will then come at once upon the breast. Gentle ! compression or squeezing of the breast should be employed at regular intervals. Latterly, I have smewhat modified the mode of exciting sympathy kiween the breast and uterus. Instead of squeezing the breast, I imitate the sucking action of an mant by placing the thumb and index finger on ach side of the nipple, about an inch and a half or we inches from each other, and then I draw them breard just in the same way as if I were desirous deawing a little milk to the apex of the nipple be microscopical examination in a case of susperted pregnancy, only the action must be much facker, and repeated frequently. As a preventive hould be shown how to manage it. She merel; to pass her hand under the axilla of the arm of be patient, feel for the nipple outside the chemise, ad use the thumb and finger as described. In some cases when I am going to remove the plaenta, I direct the nurse to place her left hand upon be breast, and the right hand on the uterus, and press them both .t the same time, while I remove the placenta. It assists in insuring a firm contracfor of the uterus.

perfect rest to the mother. 2. It can be kept up for any length of time. 3. There is no chance of failure in its application. It is not requisite to employ this precaution in every instance; only in those cases where the uterus feels flabby, and there is great difficulty in stimulating it to contract. Before leaving the house, if I have any apprehensions of haemorrhage commencing after my departure, I give the nurse directions to continue its employment for some considerable time.

TREATMENT OF DYSENTERY BY LARGE DOSES OF IPECACUANHA.

This plan of treatment was introduced, or brought prominently forward, by Dr. Docker, of Manritius. The use of ipecacuanha in dysentery is by no means novel; but the employment of such large doses, and in the method here described, is,

Dr. Hillier said of comparatively recent date.

The plan is to give a drachm of tincture of opium, breast, moves herself, thinking that perhaps her to apply a mustard plaster over the epigastrium, position is awkward to the infant, or she pulls the and, in twenty minutes, to give a drachm or a child to her, and tries by every means in her power drachm and a-half of powdered ipecacuanha in a make it take hold of the nipple. These moves very small quantity of peppermint water, or simple ments of the patient are liable to place her in dan- water. Sometimes half an ounce or an ounce of ger, and I have seen one or two instances of flood- , easter oil is given, with half a drachm of laudanum, ing after labor, the cause of which I could not before beginning the special treatment; this is tribute to anything else but the exertion made however, assumly found to be unnecessary. Vomite the mother in the often fruitless attempts to get ing is not often induced, and the cure is often becalld to suckle. For the above reasons, I have 'immediate. A patient may be passing every half or some time discontinued the application of the hour or offener, blood and mucus, or bloody serum with pus. They cease at once for about twenty-four hours; he then has a natural stool, and is well. The diet is farinaccous.

In May, 1862, Mr. Baylis, of Ceylon, wrote to Dr. Hillier that he had treated fifty or sixty cases in this way, and only lost three, who were in articulo mortis when they came under his care. He writes that he has continued the plan of treatment up to ist to contract almost instantaneously. As the the present time, and expresses himself equally patient lies on her left side, the hand should be I satisfied with it. He gives the following as an

"A highly phthis cal young gentleman, in whose lungs softening had commenced, came out here for his health. I told him the climate would not suit him. However, he disregarded my mivier, and I was soon called to see him. I found him in hed, unable to speak above a whisper; pulse very weak, about 100; face flushed; tongue thickly coated with yellow fur; tenderness and pain in the abdo-tion, especially in the left iliac region. He had been suffering from diarrhers for four days. During that day and previous night he had passed upwards of sixty motions; they were at first copiously feculent, latterly, almost pure blood, with a little slime. He had been feeding most improdently. I gave him at once a drachm of laudanum, and put a mustard radant to use this precaution himself. The nurse plaster on his epigrastrium. In twenty minutes I wineglass of water. He did not vomit. Those who saw him at this time thought he could not live twenty-four hours. Next morning he was much the same; had fainted once or twice on going to stool, but had only passed seven motions, composed of blood and stuff like the washings of meat. had much pain in the stomach and bowels. I ordered an opiate injection three times a-day, and at 6 p.m. put on a blister and repeated the lauda-The irritation of the mamma with the hand is num, followed by the ipecacusnia, as on the pre-Prierable to the application of the child to the vious day. Next day he passed only two motions; heast, for the following reasons: 1. It insures there was just a trace of blood, but they were largely feculent. The morning after, the motions were solid and natural, and he rapidly recovered without more medicine. His diet was sago and arrowroot."

Dr. Hillier has had the opportunity of trying this mode of treatment at the Children's Hospital. It was in the case of a child, aged 4 years, suffering from subscute dysentery contracted in Barbadoes. He gave five minims of laudanum, and, in half an hour lifteen grains of powdered specacuanha. There was no nausea or any unpleasant symptom caused by the medicine; and although the patient had previously passed five or six motions, containing much blood and mucus, every twenty-four hours, there was no evacuation for thirty-six hours. He then passed an ordinary feculent motion, and from that time he continued quite well. It is stated that ipecacuanha has the effect of rapidly healing large dysenteric ulcers. Dr. Hillier suggested that it might be worth while to try it in the darrhea dependent on tubercular alceration, or in typhoid fever. The opium is supposed to act mainly in preventing comiting, but it may, with ipecacuana, have a more specific action on the disease .- Med.

M. Homolle has found the following powder efficacions in two cases where obstunte constinution had raise I the question of operation for artificial anus: Powdered strychnine ("th gr.; powdered nux vonica, th gr.; calcued mago: in 6 grs — Mix. One powder a day at first, then two, and finally three per diem .- Lancet.

En Correspondents.

R. The physicians of Great flutain are not yet, as a general rule, prescribing by the new Pharmacopora, but will doubtless do so more and more as they become acquainted with its details.

Rest Prison -Carbonate of Barvin is said to be an exertlent exterminator of rate. It is tasteless, and reach eater by them when mixed with any of their ordinary food. As in the human stemach, it becomes decomposed by the gastrie Juice and acts as an uritant posein

6. Dr. Farre, of St. Bartholomew's Hospital, promises an abrigori edition of Parenn's Materia Medica, in October heat. Profesor Bentley, of King's Cology, and M. Watrington, of Apothecary's Hall, are assisting him in the peraction. The work will contain the new Pharmacopera, and he especially adapted for students.

and be especially adapted for students.

H'afer Priper.—Two flatdrens are warmed to a temperature at which they may be touched without burning the fingers, yet not so hot as to occasion a globule of water for run off when threwn on the level strikes. One of the irons should be kept at a slightly increased temperature, over some lice mode: and, their surfaces being very slightly buttered, a parition of these rice or wheaten flour intestivations when the other is at once to be pressed upon it; after a minute or two the water may be removed and triumed into shape. Freuch wafers are cut into circular disks of about \$3\$ inches in diameter by means of punches, but a square wafer is better adapted for cuveloping punches, but a square first molecused by dipping it into a tumbler of water, then laid on the paim of the hand, the powder or pill places in the centre, and the edges tolded over it; it may then be swallowed like an oyster without imparting any taste of its contents.—Chemis and Irrayper.

N.—A bright deposite of metallic sliver may be preduced

voncent.—Chemis and irregust.

F.—A bright deposite of installic sliver may be preduced from a strong solution of the nitrate by means of a thick alcoholic solution of taunin; and if the liquid be expossed to dryness, the coating will become prefty firmly fixed to the surface. A life counting of copper may also be preduced from a saturated solution of the sulphate by means of impin.—Pharm. Jour.

Best Smelling Suits.—Over 10 or, of carbonate of amno-nia pour 5 or, of the strongest solution of amnonia (sp. gr. 880) and lay it aside in a tight vessel and a cool place, sitering it with a stiff spatula every other day for a week. Then allow it to remain for two or three weeks, by which time it will have become hard—so hard that if it had not been stirred it would be almost impossible to remove it

without breaking the jar. It occasionally, however, requires a week or two longer to soldiffy, after which it may be reduced to a coarse powder and filled into bottles new creps more of the figuor animonia added to rack cause it assume a crestalline appearance in the bottle It may of course be perfumed it desired - Pharm, Journal

Medical Works published in Great Britain from the 1st April to the 1st May, 1864, with their sim-numbers of pages, publishers names, and prices in starting. sterling.

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DEATH.

in Philadelphia, on the 23cd March ult., For John man Coxe, in the bist year of his age.

He was for many years a Professor in the Pamerylania, from which he retired in 1836. He was first to introduce yacchastica into the United States, the largest of the walls have been a Coxe and the Professor of the walls have been acceptable. the inventor of the well-known Coxe's Hive Syrup.

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