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# DOMINION MEDICAI JOURNAL. 

Tore. I.-NTO. 6.
TURUNTO, UNT., FEBRUARY, 1869.
PRICE, SOPE AM i.

## Griginal Camumirations.

a OAsl of paritial pladouta previa,
Accompasied with Frotal Exomphalus.
By J. F. DEWAR, M. D.,
vivematit of eminburgh, liceatiate, and licentiata midwifery, rofal collige suraromg, minburgh; hember of medical oujzille of ontario.

Mrs - met. 32, mother of two children, on the 4 th March, 1864, consulted me professionally with regard to sevoral symptoms in this ber third proganancy. For the preceding thireo months she had complained of rigors, during the day she suffiered from anorexia; but at 10 P. M. her appetite became, as she termed it, "yoracious." She complained of great languor eftor the slightent exertion; she drew my attention to her size. which certainly appeared beyoud the common; she felt the movernents of the fetus, but stated that they were more feeble than they apjeared to be in her former preg-
 in April. I simply prescribe a mixture compased of the compound tincture of cinchons and apirit of mindererus, and advised gentle carriage nercise.

March 9th. - I received a message that the liquor amnii had escaped. and that labour was mpervening. On my arrival ahe told me that While stepping from her carriage rupture had wken place, and that more fuid had passed than in any of har formser pregnancies. On a vaginal dxamiastion I felt the os uteri high up in the brim of the pelvis quite nndilated. I noticed paticularly that the brim and nutlets of the plois were both in their transverse and anteropaterior diameters larger than ordinary. On hyphying the stethowcope I heard the placental muffer iniongh feebler than usual. I particularly nguired at the time if the Gischarge was ac-
companied with blood, and satistied myself that it was not.

The pains were evidently false, and after the lapse of a couple of hours, entirely disappeared.

March 10th.-Mrs - passed a very comfortable night, and states that the foetal movements are felt much more distinctly than formerly.

March 23rd, 11 A.M.-I received a message to visit Mrs. -, imasediately. On the evening of the 22 nd , at about 11 P.M., snother escape of liquor amnii took pluce, the quantity was about the same as on the previous occasion. She had suffered from irregular labour pains during the whole night. On my arrival, I found labour had steadily set in: the os was well dilated. I discovered it to be 2 case of Partial Placenta Previa. The placenta was separated from the uterus in about one-half of its circumference, the remainder being adherent to the right side of the organ; the detached portion of the placenta was dry and was easily lacerated. Un insinuating my fingers above the placenta, I thought I recognized the anterior fontanelle, but was unable to determine satisfactorily what the presentation really was, as I distinctly felt between it and the pubes of the mother a tumour, as I thought, which partialiy overlapped it. . I was puzzled with the case. Mrs. - had been in the habit of taking chloroform in her formet labours, and insisted en its being administered. I sent for my friend, Mr. Alexander, who was equally in doubt with regard to the presentation; neither of us supposed for a moment that this was the placenta; the labour pains steadily increasing ; the pelvis was large; there was no hernorrhage. The patient still insisted on chloroform being administered, which was done. Within two hours after my arrival, and rather more than half-an-hour after Mr. Alexander's, she was delivered of a child. The mass, which was such a source of embarrassment to us, was the under surface of the liver. The case was that of exomphalus, and the liver had overlap-
ped the anterior fontanelli. The accompanying plate is a photagraph of the feetus. In addition. there was a well marked spina-bitida, the tumour heing about the size of a pigeon's egg. linmediately after the expulsion of the futus, I removed the remaining adherent portions of the placenta. I may here mention, that the great nass of the placenta was expelled on the lirth of the child, and that the remaining portions were very small. The bomorrhage was very trifling, and Mrs.
resovery was rapid. She stated to me that she noticed foetal morements, well marked, up to the time of the second escape of the liquor a nuii

## REMARKS.

I regret very much that owing to various circumstances I was only enablel to take a photograph, lence must be attributel the vagueness of the description. The fetus was decidedly an anomaly. Judging from its head, liver, spleen, and the appearance of nails on its fingers and toes, it would have been considered an eight mosth; fetus, r.hile from the size and shape of the pelvis, the appearance of the external organs of generation it was totally impossible to determi re to what sex it belonged, and the size of the thoar would leal one to infer tiat they were those of a fatus tive munths old. We had here, then, a fretus with a liead, extremities, and abdominal contents, of a size neariy the same that we find in infants who bave arrived at the full term of utero-gestation, whilst the pelvis, heart and lungs were those of a five mouths foctus. The weight of the whole, including the placenta, was notm rethen six pounds. I have very little doubt, judging from the history of the cane, that the exomphalus and the arrest of development was due to inflammation of the amnion. But it certainly dues seem strange that fretal life should have existed for so long a time after the attack. The case was one of a partial plucenta pravia, and I believe that the rupture of the m-mbr.nes on the 9th of Murch, and that the subse.fuent and final discharge of the liquor anuii on the $\because$ ?nd prevented the occurrence ot that hx.norrbage which is so alarming in cases of this kind. I confess that I was totally igmorant of the $n$ aturo of the presentation proper, while in attendance, and should it have been
a breech instead of a head presentation, I fear should have been equally us puzzled under circumstances to have made a correct diaznosid in such a case.

## CASE OF UNJSUALLY LARGE LOOSE GARTI: LAGE IN THE KNEE-JOINT.

treated on the antiseitic sistem, under the CARE OF MR. LISTER
by archibald e. malloch, m. B., Hocse Suriteon,

Reported to The Glasguc Molical Journal, and aka to The Duminion Medical Journal.
W. E., Aged 20 , was admitted into the Royal Infirmary on the 28 th June, 1868 , complaining of slight lame ness, of a "hump which moves" in his right knee, and at times of slight pain in the joint, especially when carrying any heawy artide. A loose curtilage about the size of a balf-crown piece, was felt and moved frecly about in the joint. The previous history of the case is inter esting, as pointing apparently to its origin from the fringed processes of the synorial membrane. He dates the begimning of his complaint eight months back, when he strained his kace in the following way: While unloading and supporting a partially emptied coral truck, he attempted to spring backwards to encape the falling coal, but fell, as his right foot had been caught between. two howy pieces of coal. Afier lying on the ground for a few minutes suffering acue pain in the joint, he got up and limped for a shorb distance, when he was met ly a fellow labourt, who assisted him into a house, from which he was carried home. He remained in hed for some days, sufferiag at firt considerable pain in the joint, which was much swelled though the skin was not red. At the end of two weeks be began to walk with the aid of a stick, and in six weeks resmed his work, though lane and with the joint swelled. Three weeks after the: accident' while rubbing his knee with a lotion which he had got from a doctor, he felt a " small. hard lump," about the size of a marble, above, tnd to one side of his knee-cilip, which he could move to a slight extent from side to side. This "hard jump" increased gralually in size, and sot proportionally freer in its motion, and could

穻t all times be felt A boat four months after She accident the "hard lump," which was then zearly as large as at present, could be felt at times in front of the joint on either side of the kne-cap, below which il occusionally disappeared. Daring the last four months it has increased in size, and is at times "lost." On ten or terelve ocasions he was suddenly stopped short whilst walking, from inability to straighten his right leg. He would then have to sit down, and, by morements of the joint, free the "hard lump" which, he thinks, must have got hatween the bones. This displacement was attended with slight pain, and was followed by increase in the size of the joint.

Professor Lister determinel to perform the firect ojeration, as the subcutanenus method would lie diticult, if not impossible. from the large size of the cartilage, while he ielt confident that on the antiseptic system the joint might lie freely opened without risk. At $11 \mathrm{a} . \mathrm{m}$. on the 2nd July, the following operation, which is reported in detail, was performed:-The loose cartilage leing held steally between the patella and innner condyle and femur, the limb extended on a posterior splint, and the skin on inmer side of joint smeared with a solution of carbolic acid in oil-strength) 1 part c.utbolic acid to $G$ of oil-an incision directly over and somewhat longer than the cartilage was made, through the skin only, with a scalpel which had been dipped in the same oily solution. This wound was then gradually deepened in its whole length till the synovial mombtane was cut, its surfice being Lept moist by the same oily solution, which was continnally dropped inon it. The incision was gradually deepened to admit of seizing amit wisting any hleeding vessel before the joint was opened. A sharp hook, which had been dipped in the same solution, was then fixell in the cartilige; and in order to prevent the chance of regurgitation of air not acted on and rendered harml-ss by the antiseptic, the instrument; with the skin aromal, wats covered with a piece of lint of considerable size, moist with the same solution, and under cover of this the cartilage was tilted out and drawn away, the lint remaining orer the wound. This large piece of lint was remocel, and another, dipped in an oily solution pr carbolic acid of strength 1 to 10 , a little larger
than the wound, was at once substituted, the wound being left gaping to permit free exit for any effusion which might take place into the articulation. This layer of lint was then covered by another of larger size and by two pieces of calico, the outer of which overlapped the inner -these had been dipped in the same oily solation. Lastly, an overlapping piece of carbolic acid plaster-strength 1 to 10 -was applied, and this covered by a folded tuwel, to absorb the discharge and by a bandage. Patient was ordered to remain in bed The loose cartilage was thus described at the time :-"One and a quarter inch long by one inch in greatest breadth and a quarter of an inch in greatest thickness, round at ono end and more pointed at the other; one surface smooth, the other irregular with a sort of com gatel appearance. On section, a very remar-. able difference is seen in different parts of the structure. Towards the smooth surface, a layer of compact white cartilage, almost perfectly miform in thickness, viz: $\frac{1}{8}$ of an inch, and hounded at its deepest part by a sharply defined line, is observed. Between this layer and the comng: ed surface are two constituents in two layere, the one next the corrugated surface being a blueish form of ceretilage, while between this and the other layer of cartilage is al layer of true bone, of cincellated structure, the cavities being minute, and, as might be expected, with no medullary material in them. This layer is albout 1-16 of an inch in thickness, but thins off towaris the edges of the loose body."

July 3A, 3 P.M.-- Patient has not suffered any pain since the operation: has slept well, and taken his meals as usual: pulse 72 . After removal of the towel, the upper edge of the plaster was mised, and the outermost layer of calico erposed, when watery solution of curbolic acic, 1 to 40 , was droppel upon the part.

This solution was then freely applied during the removal of the plaster and nuter layer of calico. A layer of calico, dipped in the above watery solusion of carbolic acid, was then applied over the remaining dressings, and this covered wilh one to ten plaster, a towel, and handage. Upon the plaster and towel removed was some of the grunous compound of hood and carbolic acid, corresponding perhaps to two drachms. -

July 4th. 9:30 A.M. There has been no pain in the limb, but during the night he suffered from pain in his bowels which hare not been mosod for five days. Tonrue whitish. Ile, however, rolished his breakfast. Pulse 60. Wischarge upon the towel a minim or two. Dressings repented in the same caref l manner 2e yesterday. Ordered a dose of castor oil.

July 5ib, 4:10 P. M.-Bowels acted with castor oil. Pnlse 60. Tongue almost perfectly clean. He slept well and has eaten with his usual relish. Dressing; changel as yesterlay, the deeper layers being still undisturbed. The oily solution of carboiic acid, strength one to ten, was, however, used to moisten the calico, in place of the one to forty watery solution, which was not at hand. The discharge during the trenty-four hours again amounted to two or three irops of serum. Dressings to be left mochanged for two days.

July 6th, 10:40 A. M.-He continues free from symptons, either local or general.

July ith, 3:35 P. M.--The discharge during the last forty tight hours bas been alout six minims of a sanguineo-serous fluid. No disturbance in knee or of system. Pulse 70. Dressings repeated.

July lith.-He complained of meariness in the wound, which was, therefore, it once exposed, and was found to be a granulating sore. its surfice somewhat irregular, being almost on a level with the skin. The joint is quite free from tenderuess, redness, or effusiou. Yuls. 50. A piece of lint dipped in one to ten oily solution of carbolic acid was applied to the wound, and this covered with one to ten plaster.

July 12 th-The joint has remained free from pain except when he moved it, when 'he felt it: little." Ias stept well and eaten his food with his asual relish. The wound is somewhat mor open, and there is a good deal of effusion in the joint, but no redness. Dressings, as yesterday, repeated; pulse 70 ; tongue clean. It appear: that since his bowels were moved, two days aftes the oneration, he his walked eacle day to the wate: cluset. This circumstance, which wa quite contrary to orders, probably explains the slight irritation of the joint.

Jnly 15th. -The 1 to 10 plaster, with lint was removed, and the wound, after being touched
with sulphate of copper, as the granulations weres high, was dressed with 1 to 40 emplastrum acide: carbulici, which permits rapid cicatrisation: The effusion has disappeared from the joint.

August 12.-The patient left the Infirmarys; with the woand quite bealed, and the movement of the knee perfect.

Septeminer 19th. - The patient stutes that he. worked the day after learing the Intirnary, and: felt no pain in the joint; the followng day how. ever, it was mach swelled. that he has worked: eserglay since, and has not suffered any prin. There is still a little effusion in the, joint lut no lameness.

In remarking upon the case clinically, Mr: Lister olversed, that though a largo incied womd of the knee joint may sometimes do well: muder crlinary treatment, if carefully stitched. with a vitw to primary union, to lene such m: wound as this wide open would, withont antise, tic management neces arily involve suppuration of the articulation. Hence. this was a good? example of the antiseptic system, enabling the. surgeon to ado, th, with periect safety, a course. which would otherwise lie certainly disustruus.

## THE SPHYGMOGRAPH AND ITS TRAODVGS.

lical before the Mrrical Section of the Candalian Instituta,
By Edward M. Hodder, M.D., feliow of the royal coliege of surgeons, ytegpresidint of the canalia medical association, fellow of the ubstetrical society of: Lu:DDON, ETC., ETC.

The paper which I an about to read to the: So. iety this evening is almost a literal translation from a French work, entitlel. "The influnee of Modern Physioligy on Practical Medi. cine," ly Drs. A. Berne and J. Delore, in which; I have found a vetter dessription of the Sphyg. mographic tacings, and the conditions which: qive rise to them, than 1 have hitherto read elso: where.

The use of the Sphygmograph, as an instre-: ment of Patholosical and Pi.ysiological researchy. s now miversally admitted ly ill who have had in opportunity of testing its merits; but, as itast application to the exploration of the movementat:

## gPHYGROGRAPHIO TRAOINGS.

The palse in aneurysms.


The radial pulse on the side of the aneurysms.

No. 2.


The pulse in narrowing of the aorta.

No. :3.


Ensuficient closure of the aorta.
N.. 4.


Insuflicient closure and narrowing of the aorta.

ご.


Affection or disease of the mitral orifice.

Na. 6.


The pulse in Typhoid ferer.
Curious and undetermined case.


The patient was highly cachectic, and suffered from lead colic.

Notr.-Since the Journal has been pp in type, we have been able to get the engraver to prepare eight of the tracings, and will give the remainder in our March issue.
the beart and pulse, in disease, would far cozceed the limited timeat our dispozal this evenang, I shall confine my remarks entirely to the indications which have been made apparent by this instrument.
It is avident that few of the characters of a pulsition, occupying, as it does, hat the 70th part of a minute, can be ascertained by the sense of touch allone.

Tiis fact hus been appreciated by Plysiologists; and within the last few years, in order to accurately study this important sulject, several instruments for registering the inpulse felt ly the arterial system hive heen constructed, to enable us to aten itely analyze the dilatation or movements of the vessels.

The Sphygmograph of Marey is an apparatus of thiskinl, seaurely fixel upo: the foream, so that the spring is directly over the radial arte:y. T.e movemonts of the pilse are transmitted to a long and light woolea lever, and $r$ gisturl apra it plane surace, which is moved at 2 known rate by clock work.

## THE PUISE.

The pulse is the sensation given to the finger by a change in the pressure to which an ariery is sulyected during a revolution of the heart.

Numerous theories lave been proposel, from time to time, to explain this phenomenon. M. Flourens attributed it to the dilatation of the artery; but this theory is not sulficient, for the diliatation which takes place in an artery is extremely slight, and this is proved, beyond doubt, liy applying the finger lightly on a denuded vessel. Wheu no pulsation will be perceived, unless the pressure is increased; ne:ther is the elongation of an artery the cause of the pulse-for this is a phenomenon synchronous with pulsation, but not the cause of it.

But the real cause of the pulse is a change, an augmentation of pressure, due to the systole of the ventricle.

Let us sie what takes place hy a change of pressure, as shown liy experiments made hy such instruinents as the Manometer and Cardiometer.

The cardiometers of Bernard and Magendie are buth good, and give excellent indications of the action of the vessels, as well also as that of Buisson ; nevertheless M. Cheveau thinks that
they may prove a source of error by exaggerating the dichrorism; and to avoid this inconvenience he produces a narrowing at the point whero the reservoir is in communication with the tube of the indicator.

By this means the mercury findsits level more slowly, and is less suljected to oscillations.When these instruments are applied to various arteries in man, it is found that the mean pressure on the mercury is equivalent to 12 centimetres. When the manometer is applied, you find in the first place a rapid ascension of the mercury, which rises to 12 centimetres, and in the horse to 20 centimetres. Then (in the horse) the column descends in one stroke to 15 ; here a slight oscillation, sometimes a little jerk or jump, takes place, which causes the mercury to rise, after which it descends to 13 , to begin again a new revolution.
The suiden ascension of the mercury denotes the systole of the ventricle ; and it rises higher in proportion as the arterial tension is less strong; therefore, to the thecry of M. Harvey, the amblitude or fulness of the pulse is in inverse ratio to the tension of the artery.

The descent of the mercurial column coincides with the diastole of the heart, and the moment of arrest, with the closure of the signoid valves, which produces the phenomenon of diclrotism; and this has been abundantly proved by tho researches of M. M. Buisson and Marey.

## THE THEORY OF DICHHOTISM.

M. Marey attempted to explain it hy supposing it to arise from the shock produced by the column of blood striking the bifurcation of the iliac arteries and returned by the same means to the heart, but, afterwards baving discovered the same action in the femoral arterier, he almitted that dichrotism is produced by the closure of the sigmoid valves, which produces throughout the whole arterial system a momentary lessening or decrease of the tensi.m.

Dichrotism exists in the healthy and normal condition of the heart, and if it is not perceptible to the finger of the observer, it is because the sense of tonch in the finger is not snficiently fine to perceive a sensation so faint and evanescent.

In certain pathological conditions it is in-: creased, and then it is appreciable by a practised

Singer. But under any circumstance, by close application and habit, in the natural state of the body, it can be detected, and rerifies the tracings made by the instruments, and which, without this proof might be held in suspicion.

The an terial tension varies according to numerous conditions which has heen fully proved and eppreciated by an instrument invented by Ludwig called kymographion, or registering manometer; but the disadvantage to the use of this instrument is that it requires a previous dissection.

The many indications which have been made apparent by these instruments bave been still more strongly confirmed by the sphygmograph, which writes or traces ly means of a long lever the slightest and almost inappreciable modifications in the pulse of man, either in a state of health or disease, and which to the unaider! hand would be quite imperceptible; it also gives its force, its fullness, its irregularities, and movements, with extreme precision.

The first idear of leing able to appreciate the different varie:ies and modifcations of the pulse by menns of an instrument was due to a Fiench medical man named Herrison, but a German was the first who actually registered the arterial fulsations. Vierordt constructed the first sphygnograph in 18.55, but its lever being too heavy, it traced the oscillations too evenly, consequently falso'y; but, we now owe to Dr. Marey the credit of having brought the instrumont to perfection, and he hav thus rendered to physiolory, and even to pathology, a lasting service.

As is usual with almost all important discoveries or inventions, the author or constructor of a new instrument is sure to be severely criticisod, so with the distinguis'ied physiologist, for Dr. Marey has not escaped the lash of the envious critic.

Cert in medical men appear to think that, because the Sphygmograph has given characters to the pulse, which had not $h$ therto been recognised ly Galien, Burlen, Solano, Fouquet, and others, that it must evidently lead to error.

But suc'」 reasoning is contrary to progression and altogether opposed to the advancement of all human sciences. Is it any slight to the opir. ions of, or disrespect to the great authoritios
above named, to state that an instrument can ba made more delicate and sensitive to the slightest alterations in an artery, than the tips of their fiugers.

## physiological sphygmography.

The sphygmograph traces two lines, one ascending the other descending, which unite together by angles more or less acute.

The length of the ascending line is indicativs of the largeness (or fullness) of the pulse.

The acuteness of the summit of the angles shows that the tension is fecble, and that there is a great difference of the tensicn between the periods of systole and diastole.

In a pulse where there is but feeble tension, dichrotism is but little appurent.

In the furegoing observations we have confined ourselves entirely to the conclusions which M. Marcy has arrived at, and they have elucidated in a very remarkable manner, the numer. ous points or features which belong to the circulation.

## pathological researches.

The sphygmograph, applied to the study of diseaces, has not yet produced such frnits as we have every right to look forward to in the future ; its study is too recent to suppose that the results already oiltained, should lie complete; nevertheless, this instrment has confirmed in a singular mamner, all that has been discovered or appreciated by the finger, lut in a much more clear and precise manner.

At a single examination it will diagnosticate with great exactness which orifice of the heart is diseased, and what is the nature of its alteraation. It has also pointed out cortain affections of the heart, which the most careful examination by auscultation and percussion would scarcely al. Low of detection ; in consequence of the free border of the lang leeing placed lefore the orgon. At all events, whether the indications of disease given by this instrument are correct or not, it does not prevent is from employing the ordinary means of exploration.

Hitherto, none of the diseases of the heart, or modifications in the circulation, have prevented the onward march of the pen of the splygmograph.

An ancurism changes the circulation. If the aneurismal thimour is in the course of the ar-
tery subjected to the sphygmograph, it produces an effect similar to the reservoic of a fire engine; the systelic shock is almost completely destroyed, the blood circulates by one continuzus impulsion,
 comes very perceptilly stmighter.
This instrument must, therefore, ifeome useful in reogaising certain intrathoracic or anxillary aneurisms. when other means of diaguosis are dificult.

There are certain diseases which produce well-mathed and characteristic changes in the circulation. Aneurism, chlorosis, and above all typhoin fever, increase the normal cichrotism: which is due to the freble tension whieli exists thenghout the circulating sysem.

We are here only able to give a sketch of the apphications of the sphygmograph to physiology, as we have not had an opporlmity of seeing the results of Dr. Mary's nmmerons experiments, which have only very recontly been publisheal; but to his kindness we are emabled to give a series of splygmoglaphic thacings, which represent the diseases most commonly met with in the circulation.

## I.-Of the Palse in Aneurisme.

The first of these tracinger repesents the normal pulse. The vertical and ascending line indiciates the systole.
It is vertical because the systole is sudden, quick. The oblique descending line represents the intermediate time lietween two systules.
The tension dimininhing suddenly, the lever of the instrment descends: lut, in the middle of its course, it receives a little shoek, which is indicated hy a slight curve : this is the dichrotimm.
The second tracing shows an equality almost perfect of the ascending and descending line in the pulse, with a remakible reduction in the angles and curve.
The itacurismal tumone destroys sudlenly the impulsion of the column of blool given by the heart, in consequence of its elasticity.

## 15.-The I'ulse in narrouing of the Aorta.

According to M. Marey, the difficulty which the lood has to overcome in passing from the ventricle into the arterial system canses the lever of the instrmment to rise slowly, thercfore, the ascending line becomes oblique. The dichro.
tism is here deficient in consequence of the slowness of the wane of the blood.

## III.-Insufficient clusure of the Aorta.

This tracing, which represents the general type of insufficient clusing of the aortic valves, shows two remarkible things, The extreme vertical direction of the ascending line, which coincides or agrees with the violent shock felt by the finger when feeling the pulse; a sensation already advetted to and described by Corrigan, and aiso the extreme acuteness of the angle at its summit, which can be explained by the incomplete closure of the sigmoid valves, hy which the column of blood is not prevented from flowing back suddenly into the ventricle, after its systolic expulsion.

## IV.-Insufficient closure with narrowing of the Aoria.

These cases are of frequent occurrence and offer many rarieties, yet, they all have their principal symptoms alike.
The vertical ascending line and the little hook, prove the insufficiency, the curved line slightly ascending, which follows, indicates narrowing.
V.-Affection of the Mitral Orifice.

The principal sign or somptom in these cases, is that the pulsation, so to speak, is abortive, beciter which the pulse is very irregular.

Where there is nurowing or insufficiency of the mittal valves the column of the blood cannot be irjiven into the vessels with vigour or force.

Nr. Marey has not up to the present time -pecitied the varietics of lesions to which the mitral values are liable as indicated ly the shysmograph. But you perceive that the ascending line is not ample, and in some of the tracings some affection of the aorta co-exists.

> VI.-.I'he Pulse in I'yphoid Fever.

The poculiar chameteristic here, is the extreme manner in which dichrotism is shown, and which in this diagram is delineated by a convex curve intermediate between the asconding and descending lines.

## VII.-A Curious and l'ndetcrmined Case.

The patient was extremely cachectic and suffering from lead colic.

The recent cardiographic labors of M. M. Cheveuu and Marey have also thrown moro
light, and printel ont with greater precisin: the sucessive evolutions of dif!erent puts of the heart, lut we are unatic to shaw the thacings of the instrmuent in such cases; we will contime ureshes, therefore to an anases of the three principle experiments whinh hatve enaided them to give the athegraphice represeatations of the movenumts of the heart.

## lst Exprrinent.

The determination of the suecesson of the different movements $o^{\circ}$ the hemit.
This sketch repre ents the tracings of the action of the rigitt auricle in No. 1 ; of the right ventriele in No. 2, and of the cardiac pul. sat:o 1 in No. 3.
These lines show that the contraction of tre: auricle preceles consilerably the shock, whids commences with the contraction of the wentricie.

The systole of the auricle is of extremely short duration; the systole of the icntercle lasts: a mach longer time.

The cardiac pulsation shows exactly the same duration of time as the ventricular systole.
The amriculo, ventricular, and sigmoid ralves; proluce oscillations at the moment of their : closure, which is shown by the mudulations of: the curves.

## 2d Experiment.

A comparison of the movements of the left ventricle with those of the right.

From this diagram you pereeive that the two ventricles contract together, hat they show: great difference in the energy or force of thei contractions.

## 3rl Experiment.

The relations between the rentricular contraction and the aurtic pulsation.

The upper line gives, in the first place, a tracing of two pulsations of the left ventricle, then two pulsations of the aorta. The second line indicates that the aortic pulsation is only produced at the moment that the ventricular contraction has arrived at its greatest intensity.

From the aketch which 1 have been ahle to give of these experiments and investigations, it is not difficult to see the immense importance they must possess in studying the pathology of the heart, and in the treatment of the diseases to which that organ is liable.

Bat for a detailed accome of the instramont as well as its ? line triva to the exphotion of she morements , of the hart amd pule in liealth :and discase, I must refer you to the a're lectores (f Dre Bum m samberon amb Dr. Fenucis Astice pa'disheel in the Letest in latib, and Augnst, lsiat. to Dr. Marey wonk. reconly
 Dr: Mastin Plint, dec, de.

##  <br> 

## MEDICAL AND SURGICAL SCIENCE.



TORONTO, FEDPLALE I:s, IEGO.
PEATSCOPE.

## STAPNIA, OR PURIFIED OPIUN,

Ocnsisting of Meconates of Morphia, Cocleia and Narceia, made by Assay; an imperiant Substitute for Morplia aud Crude Opius.

This is a parer which was contrinuted to tho Detroit Rericer of Merticine mul Pisarmesel, and clisusses the relative chects of narecine, mor hine, aud colline. He kays morphine act; jomineipally ation the brain ; coleine especialy on alse care-
 nerves. When ume exan of manhine wis inicted thto one lleg, and one grain oi colloine into mo sther, both slept ealmiy for thres or four homes. Then the morphine dog waked up wihly, recogaized no cone, lowked haygard, and did not werar his good humme the the nex di.g. The eoderine dog waked up heright and playful. The experiment was then reversed, each doy loning injected with the other's medicine, with exactly the same results. Morphine produces headache and vomiting very som, and before a danderous dose is amivad at, while condeine does no. produce these mpleasant effects, and hence requires more care in its exlibit:on than nurphine when given alone. Farceine, as an anodye and nareotic, may be always employed in place of morphine, and is, in every re. ipect, equal to it in raiue, and even, in a grat many enaes, to be preferred to it. In siapm, in, all the narecine of the opium is rotained, but the attempt to isolate it from the codeine ar:d mornhise
produces atecomposition that cannot be ariacially rearmgen, wilhont much expense aad a conocquent loss of anolyne and hepaotic power. Hance the pecaliar adaretainity of this new papuration to al the casos where the calmatire thalobils are apphealibe fa comparig the relative vahe of Dr. Symin's' lumu opij cimprositas atad srapaia, he gives Suspitio the preferenee, because it difises its sudative infiatate urer the whie nervoles symen, instend of leeing concemeaterl on the hain. He cuanders that stanmais just the medicine regnired by the prois ion, which, hating the the gow efiects of orimu, does atacy with many objections tu its use, hins i:a flet, moxe chavenient forery form

 mитиіа.

## RENENAL OF PRESOR PTIONS.

## EAST MTER MEDGCL ASSOGATMON. <br> 

Dis. Shanm, President, in the Chair.
Fon a year or more ine subject of Renewal oi Presuipenas hes engued the atemaion of physichas ha suane of the large cities theonghont the Cutel Sites. The Refoct Reow, one of the luading Thedical Jouratle ia New York, (and to whose columens we are ofien indebted, as oar readcro will antiee), hats taken an acive part in the discassion and bisseamation of the views of Physioms upom the saboject. We take the following from its cohmme, aad thank that it repeescats the matter, as it at present stands, mone empletsly then anythiag we cim say upen the snbject:-
$\because O_{1}$ motion oi Dr. Win. Nuwam, Dr. Joln Shar. $\because$, die Perdent-cide wat emeduch d to the
 Prowilent, was du!y insialled. 1): Shaty, after

 repurts were then read.

## 

The sabject of the comanuicaion from the
 the meneaion oi proseripions, was then thenea up, fur dicultsoun.
De. Morse presented the following resolution :
 tion achowlelges rath the indisumintie renewal oi premprims is ath abose whim should be disconath cul, and

Wherwes, All renewals by the apothecary withont the anthorty of the physicion mast necessarily be indiscriminate, since he never sees the patient nor kanss the chuater of the discase, and

Wiemer, The Amoricu Piam icentical Associntion, after abisawiedgiag that the roaewal of pre-
scriptions is unjast both to the physic $n$ and patient, declates :hate it is not wi lim ts $p$ ovince to preveat sucia renewals, thercfore
limoler.l, That the State Medical Noc'e'y be requesterl to insk the next Legislatmre to phos an act hakiag it a mishlemeanom to renew or use a prescription without the anthority of the prescribing physician.

Dr. Alobote thomght the ciaims of the Pharmacentical fisori:ition prepesterons; had never befire hatari of stich a catia, ami hoped the Asscciation wimal laria diar this very inpurtant question. wound mot ramiti adeal letter, but that the resolvLion wosid be stricily enfureed.

Dr. Thoms approred very highly of the resulntion of Dr. Ainsse, aisd came to the conclusion that as the pmeipal Medical Societies had exdorsed the :atam of the East River Medical Assuciation on th.s subject, and had recommended the origisal resolutioia to the State Medical Society fur ats action, he hoped the resolution of Dr. Morse would receive the sime attention.
Di. O'Sullivan renarked that any claims the druggists may assume to have in the mater, wre mont etiectually disposed of by themselves, for accoding to tieir own resmations, they hare not met or tefnted a single peint advanced by the East Liver Medical Association; insteal of which it would seem as if the Pharmatentical Ansociation arrogated to thrmselves the power of deciding impontint points in a mumer that stemed to him partial and unsatisfactory. Their assertion that ilhey possess the reght of pruperiy in a prestription onee dispensed is contraryto cemmun sense, they bein, shaply the empmiders of modicine ordered by the physician, and are the cheto :iens oniy of the presuription for the tine being, subject of course in the order of the physician according to the terms of the contreet betwcen him and his patient; the rights of the druggist, so far as can be ascertained ly legal investigation, extend no further than the comp moling of the medicine. and the temporary cinsiudy of the prescription.

The ductor den ounced as illogical the claims of the inharmaceutist to the rioht of property in the prescripition and to its renewal, and asked, "Who are the juiges of the indications as to the propricty of the relutition of the prescriptions! Certainly it is not the patient or his non-medical friends; neither is it the druegsist, who perh; ps does mit cren know for what purpose the meucine is intinded. Let he claims to be the judge in the mitter, else, why should he renew the prescription withont the authonte of the preseribing physician? If in him lies the right to decide thes important question, it would hardly be necessary for the piysician to cilll in a brother practitioner in consultion, should he deem a chatige of remedies necess:ry, since $h_{i}$ hais only to send to any neighbori $g$ druggist and ask his opinion."
The resolution was then adopted unanimously and referred to a special committee.

Vacerne.-Phygicians requiriag Vaccine can obtain it by forwurding one dol.ar to the E.ijur Bux No. 6\%J.

## eflitorial luntirts.

Spaygmographic Tracings. - Owing to the great expense it would untail, it has been fuund impossible to insert wood-cuts of the splaygnographic tracings referred to in Dr. Hodder's paper ; but they can be ohtained from Mr. Sutchart, photegraphic artist of this city, by forwarding to his address the sum of lifty cents in postage stamps.

Chlonoform.-The paper on Chlorufcrm, published in the December and January numbers of this Journal, has been converted into bouk form, and can be obtained for the sum of Trenty-flve Cents, at the book-stores of W. C. Chewett \& Co., and Adam Stephenson \& Co.

We call the attention of the profession to the Price List published in this Journal, by H. J. Ruse, druggist of this city. Physicians who order their medicines from him can rely upon having them of the very best quality. We notice the following variations in his Price List this month, in consequence of the greatadrance in the articles quoted:-

Quinine is also advancing in price, although he has made no alteration.

From the usage which the Joumuls sustained in transmission by post, some gentlemen his ee not received their numbers regularly. To corre ot this, we now direct uoon the cover, simply tying with a atring. There can be no reason why subst-ibers should not receive their numbers regularly early in the month.

## BOOK NOTIOE.

We have received from Dr. Butcer, his "Physician's Pocket Reeord," and consider that it is equal, if nct superior, to any issued. One great advantage which it possesses, is, that it is not dated for any specified time, thus doing away with the waste which occurs in sinnlar works of this kind. The following are the contents and distinguishing festures of this visiting list.

1. A perpetual calendar. 2. A price list of new remedies and doses; doses of medicine for hypodermic injection, for inhalation and for suppositories and pessaries; tables for examination of urine; poisons and antidotas; fee table; visiting list and record of accounts obstetric, vaccination and death records; caah account, etc., etc.

The Anatomy and Histology of the Hemas Eve. By A. Metz, Mi.D., Prefessur of Ophthalmolngy in Charity Hospital Medical College, Cleveland, Ohio. Published at the Ollice of the Medical and Surgical Repurter.
This work is specially devoted to the anatomy and histology of the Ere. The author has collected the results of the labours of the recent histelogists in opinthalmological jomrmals and memoirs on special subjects. This, with his own exporience and knowledge of the subject, renders it an atithority. This work will be found very useful by the gencral practitioner; but to the specialist, it is essentially mecessary. We notice that Dr. Butler, of Philadelphia, has given the work his careful attention.

Sotctious.

## Clinical Society of Lovdon.

Fimay, Decemble ilth. 1 scs.
Sir Thomas Watson, Phemidet in the Char.
The following gentlemen were clected members of the Society: Mr. Berkeley Hill, Mr. L. S. Ditile, aind Dr. Fish.
The Secretary communicated for Dr. Cronch a case of primary amputation for gunshot wound. The operation was performed, before the patient had recovered from the slock, just below the knee. There was subsequently severe delirium, and a protracted eonvalescence.
Mr. Callender considered that in this cibe the amplitation was rightly performed whilst the patient was yet suffering from the shock, and pointed out that, in a yours subject, an operation was usually well borne in sach a state of the system. He referred to the site of the ampatation as accounting for sonac tromblesume abeesses which formed along the tracks of the extensor tendons.
Mr. Maunder thonght it contrary tu recognised principles to amputate during eollapse; and he urged that the good results which followed in this case must be regarded as exceptional. The had once amputated when there was extreme prostration of the nervous system, associated with complaint of urgent pain, but such a case he regarded as quite distinct from instances of ordinary so-culled collapse.
Mr. Crouch, in reply, said he had followed the rule distinctly laid down by Abernethey for the treatment of cases similar to the one reported.
Dr. Pavy related a cise of Diabetes in at female patient, aged sixty-eight, in which the treatment consisted mainly in the exhibition of opium in gradually increased doses, without restriction of diet. The first effect of the drug was limited to a diminution of the cquantity of urine, without change in its specitic gravity or in the relative quantity of sugar contained in it. But eventually, is the dose was increased, the daily excretion of sugar diminished, until the urine became entirely natural. Throughout the whole period of treatment, the dose of opium, the quantity of urine, and the
quanity of sugar cxcreted in the twenty-foum hours w re recorded daily, se that the efiect of the remedy co .dd be accurat ly juded of. Ly way of further ianstration, Dr. Eavy mentinca flwo eher cases, one treated by opiam, the other by morphia, in which the benetial results obtained wete equally striking.
A discussion folluwe i, in the course of which Dr. Weber refersed to the occasiomal recurrence of dabates in paticnts amprantly eared, whether by diet, regimen or othcrise; and sumestal theat the case shonald be further reported on after an interval of six manths; while the President drew attention to the age of the pratent. with revernee to the quastion whether diaious in mot nowe tractable, and at the same time more liathe to ieve, meder:y persons than in the yoms.
Dr. Payy, irchivropy, aunited that ianlyaned life diabetes might be vegarded as a cumparatively trisial disurter.
Dr. Beigel read a parer, funded on itas cases of cpilepsy, from which he iaforred, that athongh ureonsciousness amd cenvolsion are so frequent as phenomema of the epileptic paroxysm that most whiters regard them as chandenstic, there aro muny cases udorbtedy of ennentio nature in which these symptons are absent. He considered that the ualy invariahle pathornomonic signs of epilepsy were those which :urose from disturbances of the circulation, and set forth varous facts and observations which had led hine to localise these disturbances in the rabo-motor nerves. As regards the treatment of epileqs., Dr. Buigel believed that the must important remety for continuous administration was the bronike of potassium. Wie further stronaly recommended the subcutancous mjection of morphia, giarded br atropise in the manner suggested ny Dr. John Harley, immediately lefure an apprehended attack, as a means of warding it off, or at leant of madifying its violence.
Dr. Green related is cesse, which he deseribed as one of Irvintive Hybertrophy of the Heart. The patint, a wirl of fitteon, was athitted auto hospital in the fourtio of fifth attack of acme rhematism. Soon after pericarditis supervened, and she eventually died, with great hypertrophy, aherent pericardiam, and "finully grumar" degencoation of the muscular tibnes of the whole heart. In explanation of this and other cases in which hyperifophy oceurs in young rheumatic pressons, independent of any mechanical canse, the iuther manataned the theory that the wergrowth is intimately commected with chronic myo-cirditis.-Lareet.

## Bumaris on the Actial State of Kedical Scieace in Japan.

By alex. M. YeDDER, M. D.
late surgeon e. s. s., physidmas to mis uighness the prives of natito and sewo.

So much intcrest is attiohed to evorything pertaining to Japan, thet an outline of the state of Japanese medical science, and the josition held by its practitioners, carp scarcely fail to be accantible to those curious in regard to what concerns these peculiar people. Insignificant as their acquire-
meats may apoear, when veerea hy the light of nondern scienec, yet they are really remarkible in holdiag sach a reswewable position in Asiatic knosmedre; and this an the more from the fact of the peculiar isolation of these peophe during several precedin- contiries.

Tine Japanese sristem of medicine is essentially hased mpon the Chinese, and neariy all medical bows are witten in the sumare Chinese chazacter, whech is read ly alt professional mea. This spst.3n has subsergent:y bou great]y moditiod by the Japancse themselvei, and also iv a considerable infusion of $]$ nioperen medical literature introduced ly the Dutch during the last two or thaee centuries. Stiil more recenty, modicel works transhated and printict ly the misionaties for the use of the Chincse, have found their way into this country, amare donibless destincil to ciert no inconsider able intlutiace.

There are in Jiann no regular schuols for medical instruction, but in many cases the son follows the profession of the father, and amost every practitioner has one or more students. A school in comnection with : h hosijital has been for some yer rs past in whation at Sagasaki, an many matio physicians have a vailed themelves of its instractions. It seems probahle, howere that this cstablishenent will sown be discontinued under the recont clamsed form of goremment, the Dutch, being the conly foreign tongee purmitted io be taught in Japan, up, to the time of Commodure Pery's arrisal, and the ti:ot Jap:ucse Embassy to the United Statcs. One frequently mects with native physicians who: are more or less acquainted with that language, imd who may possess and read a few Dutch medicall books. Xearly all forcign medicines are known by Detch names, so cormytrd by dapanese pronmeiation that their originats can scarcely be recugnized.
The social status of the profession is rery fair, and fully equal to what their acquirements or merity entitle then. Physicims carry two swords, mingle frecly in the highest sucity, ame their opinions are receiven witit the sratest deference. Ti:e Japanese plysicim receves no fees for his risits, bit is piat unly for the medicines iurnished, each one compombling and supplying his own prescriptions after the manner of the English ap thecary. It is, however, ly no means unc:nmmon for thento receive an "honturarium" after ireating a caze. As might be inferred from this arrangement, there is no lack of medicine supplied to the noor patient, and it is extremely donbtful whether more hatm is occasioned by disease or physic.

As to the professional ace puirements of the Japanese ficulty, dissection mot being at ail practiscd in Japan, and erea correct phates of the human structure beivg seldom seei, the knowledge of matony is exceedingly imperfect. Still, they have mative names for the viscera, the atceries, veins, nerves. lyuphaties, and principal anatmaical structures, inough topmeraphical anatomy is absulutely unkaown. In physiolory they are entirely in the daik, knowing, for exmple, nothing of the sympathecic system of nerves, of histology, or animal chemistry, and attributing to the lizer very important moral qual ties-such as its being the seat of c urage, etc. The circuation also is but imperfectly understood, the physicians always feeling ithe pulse at both wrists, from an impresion that
cach side of the body is simpied with a corsesponcing side of the heart, indejrempently of ine other. The scieace of diagnosis is, of conere, bet little known; and disiase, when ruengnizel, is treated cntirely by name, and accorliag wo cerain formades luad down in the bows; for ans they are profoundy igarant oi the natae of intemal leisons, shuald the disease prote olstinate, th. $y^{-}$
 or lite of the pratient is cabaisted. Tery many afections are supposerl to prowed from tie presonce of ramens liviag ergamisas and worns infu:ing the econony, and going ander the semernl name
 represcat those terrinde creatures, atal ce:tank: were any stel exitinis. slamh decm then fally cunable of probaciat all the mish ei asiziond $\ddagger$, them.

The only trestises unon hathong th: hewe come under my notice were cart tin illastrated works upo: thmuras, and in these it waseribent from the inlustrations that the autho: had drawa largely upon their imaginations. Minst of the medicines emplowed are of Chince rrigin, thoagh of late years may foreig womedies lave ben interdaced, and are luysy empory. esperily by the physicians in such citios as 0 ;ak 2 amd 2 eho. The forms in which remedies are exhibitud are balky powders, or decections of certaia Tagetimes, and of most forbuding aphewnes amb taste.
 among fuzeiga midisinet, iodite of pitasiana, quinia, phosphoric asid, homan's ansinne, wion lame cerasi, and exariut of hyouemas, are very
 impareat irom linhand, sad from sumples thas hate fallea under mp obsution, 1 samad comsider thair principal merit $t$, consist in the low price at waich they are s sid. Ioxdide of potassiam has proved a gruat broa to the lipanese, in rulieviag the puns of tertiary spphiis, a disease of very frequent oceurrence in ihe: crantry and in the treatment of which meramy is emioyed su, largely and indiseriminutely as $i$, be pedative of the nust disastroas conjoquencus.
Amens the poople gencrally hat two kinds of medicine are reogaized, the drat ar the chat Thus, you will be gravely informed that A. died ; bat then ine wis poor, and condd a Pon? only che ep medicine; while is.'s case, wheh terminated similarly, is a matier of surfirie, s:nce he was sumphed with the darest meduines that conla le oltained.
The only attempit at prophylixis pratiece by the Jupanese, that $I$ an aware if, is in vacemation, which was introduced by the Dutch sume thirtyfive rears ago, and is now petty generahy but unfortunately not umiversithy pructised. It is much to be regretted that this meas ree is not rendered legally ubigatory upoa the people, a, ian no other country dons smailpox conamit mare frightiol ravages than in fapm; and the number of cases of complete or purtial loss of sight from this canse is earin u: No care whterer is then toprevent its spreud by jsolation of the patient, bat inf.nts sufforing from the disence are carried a'out he the mothers as though afiected by a slight ceterri. Hygiene, the riste: of prophylaxis, is indeed a sealed book to the Japauese, and its laws are so completely and invariablv set aside as t., minke it appear a matter of calcuiation. There is no drain-
age orseracrage crer attempted; houscs are built directly nom the gmand, cellurs bins untans, while the lows: ancianmest piaces are usualy setected for baver loction, where simathes abued that woid defy eron Cokrage in their amblys.
 hers :and the puble hatis. Hanh, marige frat, too, so maversaty cmanod, is anductive oi an infinite atuomit of intertinal disurder.
 extent, in the hats of midu ber, ablere h vision,
 ?ace by mediel pratitatrs. The nise of the

 of dolivery lamens a a and whos extemities ins the oghtonem times in the ad of a whate


 alsa usal an e mection wit? this justmaent in heul presentations, arperently thrrent the nowse
 this on of are pruse, bat an calcriated to elicit

 cacrams chant r, and the wiva lat in the tamasvene: xly the fi be pererr it in, some dititeries mase i rove execsibuly dathent, as oue phte represcints the

 the chill is tiraly grispe in lwh lands, and such traction exentul as min, it prety certain that "somothem mont cona." C phantamy is per furned by a late, whan hhate is when for
 The infant, uper binth, is toghtle hamenard lowit the chest aid aldomem, and mot aitural tor mase for two cr throe deys, come have ire dis alt thing free:y aministereci mennwhice, in lion of feed:

Of Operative Sargey the Japmese are nost profonadly ienorant; they a ssess lut fow instanmente nead those of rery vile constantion, hut had they the whole monle:a ":omanerntanim," the wat of antomich kanwlodge wordperent in m
 thin:, sometimes be raremmed, is 1 minith d ly the pdient or his fricods, lat so prejudiced are the porpio against it that foregn surems have fre prenty urged iis neccerity in was. In ersco nf fractace, no abparatus whaterce for retertion is cmployed, nor any attem; made at ratation,
 trmenction and mitinato paia. In fact, the unadided porwers of Xature are relied upar i:a these cares, and. I musi confers, with most unsatisinactory resse:t. 1 was requesiod to treat a m"n, a shint tine aro, with a simple fraci"re nî the femme, sud,
 gave him hat liftle inconveniesce, on the thintieth dav he remored the whole apparetos, di ciring the c:ye to be ion flow, and expressine cur pire at imt bei:s:t oner wolieved by the rse of for ign intemal remedies. The fonanse dicp'ay cithir ayreat want of ingenuity or humantr in havin!t ro yplanees for the reliof of def rmitics or disaliiitics. Tenotrmy is not practiond, or any attempt made, by difference in the height of their cl-gs, to relieve the inconvenience produced by shortcining of a limb.

I hare never seen a cratel wed, or a sling for the ara or liruast; iedech, at crateh made at aty surs-- gestin n fur one ci ule Prince's a fecers, whiniod tu Ruelythsed knec-jemt frosi guablut womed, hats beat regaded as :animale of nill and hagenaty. The medical men atitucitul $t$, the Jounarese Eni:-
 afne the cranlay of mentinn of the 1 refussion








 i.ritathan any and woy wemone. It in enc: cra-

 by the bathats apheatom. Clabouri a ter-
 the finin of the mana, and 1 an cognizant of one instance in winch it was treely ampled to the shes
 aberration of nime, oceasumed he uterine disorder. In this care is w. s cma liged on preaen the patient

In al. lition t, what uni, ht be end the "rembar
 there e eist two distact classes of pratitiours whe
 the conamity. These are the shamporis :and to

 requisite lanak of tak for its successful accomwhithacts. Shamponing, as enphored in Jame is :ant exactly the rigotous hrakhone manibutation of the Turks at the mamm, and which make one imagine that erery joint in the iond mest have
 wam bath, the nobject lynd cxtemed um natis, white the operator beets at his side. The ami: enasists in smadry hars with the kanek!es or tipe: of the finger, delivered with areat mphity, as
 either genema, ommoneing it th lead and wroring towarels the feet, or contimed to same pare that is to ine reteved from pain. Mony shampencra we cxecedingly dextous, aid the emention is se agreable and sedative as to make it ensored oren
 besimess are nsualy whody ir mathay him, going about the strects feeing their wey win a long math, and homitur in the seokth a hind of druble whistle, whose smmed is to sue jecaliany phantite when herrd brewing the sienee of a cond Winier night. The oempathon secms to ce:ry with it a certain amonet of regpert, and I have been informed that there are "Amas," as these perple are called, who are of high rank, helonging, promes to the "Kuge", on ancient monibity of yeaco, who have had the misfortwese to luse the ir sight.

Aempancture is ver: frowneztiy panitised, espec:ahy in mematic affections and seatiea; it is done by means of very lobg nerdles of gold or gilser, and of extecure tentity. These ate slowly introluced by a rotitent unt.on, iomr, fiwe, or more being somecimes itserted at oaresitiny. The operation is nearly or quite painless, as I can tcs-
tify from personal expericnee, and is performed with great dexterity. Of its effects I need say uuthing, as anong ourselves it was mary yrars agn mactisal ginte extensize? h, hat it is mow, I belicte, cmanedi to eases of situtica, or used in compection wim electricit.
it hight mot he amiss, in the cumae of these remaks, to add a few words cuncering a lindred profestinn in our om. I refer to litnijstry. Lhis traile, for such it ma:y be imme tity en midered in
 usua! y fenamete in their hatite, ad whe carry with then a las acocrel wih mass omanents, hy Wibich tieie wechation is recomized. Nir, the

 ant withont :uan, if the infurmation giva me be
 meincquenty the resth. The tooth is extracted by the olveturs fugcre, hut reot until it has been Well loosumed ly means of a stick :adia muibet riogarmaly wielicui. The numation is soldom rerformel, hai $\bar{I}$ saw some teeth in the passession of whe of these chariat:as that han lirge portions of the a roolit process atiathed. In the face of these facts it can searcty be credited that artificial teeth,
 fremtime inumenomal. these teeti are carved out of sea-hme jumy the monas being plentifuly studeded with litile brass loosses, and the whale strusly manted uron a base cat from the hard sliell of a species of gronrd, and carral to conform to the hregularitios of the gmas and palate. I lare servar sets of these teeth in wap pesession; they are nont crensive the reay hest, a ermplete upper set, erstink alont five boos, or about one dular and sixty cents. Culossal fortunes are not accimulated irem dentistry in Juna, as may be intorred from the formones.
The fumbers of the Japmese fir thking medicine is almest incedibie. They have the most anlimeted taith in its powers of heahag, especially if to he wi the "takai" or dear variety." This leve of melicine atar unts :hmest to a matia with emme, and may atcont for the great mun.ber of phescians,
 telligent man caikd at my flice in Yi k. lama, wh h some tritling ailanent, which 1 in fomath ham would gass afe in a erouple of day and givelina no further tronble. He then alied me is na mediane was to he wivn ham. "सomo.", was the inswer; "your cate down matube re." "Woll." saill he, lomkfis areme :at the famished shetres of the disinnear, "thic is reathy tow hath. I see lere mediebes of :h kints, flee. Nhite, yoliow, and rod, mam, no dnel., dear molicines, for witill 1 wo ld glady fur, and now I am turly :fllicted at having tu kete Nibant yetting ary, as $I$ may never again lave a clance to take forcifen medicines."

Whatever the liscase if Jipanese is sufferirg from, or low wor long its una:tion, no attention to wawing or cheanines must be peil during its contimanace, and tie strictest staryation diet is enjunce. There cusincs from this a condition of fithimess and ibjectness which renters risits to the por inenld amything bat an ayrecable oflice, cspeciatiy in casus where a physical examination is demanced.
The supporters of a purely vegetable dist will scarcely derive much comiort from the fact that
dysper sia is decidedly the must comimen direase in this conntry; althouth the people, with the exception of a litule ish, consume scirice aryining that is
 sedentary existence, and the comstant sippiag of weak toia at a boiling temperatore, contribute powerfor'y tio the provalone or this affection.

The must ordinary elsases ố thue daranesce as I
 phthins puhmonolis, at.d atiterions ot the eres and skin. The strumores dithesis is ahumst unaversal, and complicates most of the cises. The tendency to i :ifmmation, of the acme variety, is very slight, and recorey from the mast severe lacenii tions and injuries is weualy etitetce "Tute ciin at que jerende." Diseases of mareded inflammatomy character, as phenamomia, or acate meunation, are seld m mett with. I hate seen but one cabe of goat, which wecmre:l in the person of the Prince of Earato.
It is painfal to refsect that thorsands of lives are annually sacriticed, and an meviculable amomet of humata sutiering enduzed, from sheer ighorance of the tirst panciples of the healing art. Fet these ne phle are not deiciont in naturisi iatelligenee, and thare is no doubt that as foreion relazions becone more intimate, and progrest is made in nther bancises of hamaz kmowledse, medicine will also make atvinces commensuratu with its impurtance, and provision be ultimately made for comintent instraction. Japmese plysicians possess, at least, the merit of canlour and modesty (in iheir own counter), and to honcstly confass ygnorance is undoubtedly the first step towards the acqui sition of knowledse.-Americtar Juwral of the Mridicai anciences.

SEA-SIOKNESS.<br>A description of a Nef method of cere.<br>By WM. H. HWINELLE, M.D., NET゙ York.

During a recent passage across the Athratic, in the St. Liurent, one of the French dine of siemmers, I had an opportunity of nbserving a new method ot treating suit-sickecess, an irmetiond by Dr. Le Co: iat, surgen of the Imperial Fiench Nary, hut temporarly surgeon of the St. Laurent. Simething mure than curiosity prompted me nbservations. 1 had a decided personal iaterest in the matter, not only for myself, but for an incalid sisfer who had hitherto been fright fuly sea-sick in ath her journerings from port to port.
As we ie.t Brest. on Satur lay afternoon, Dr. Le Coni th refuested me, in the event either I or any of 1 y ireeads shonk lue t iken ill by sea-sickness, to send for him at once, s she felt conficlent that in a large mijurity of cases he could control the malady.
Str ing hend winds and a rolling sea soon dereloper se 1 -sichness in its worst fomm to 11 any of our pesseng' rs, and nome were "o oee ill than my sister and myself. On Sunday cieming her illness as. sumed an alaming char:icter ; cacessite vomiting and violent retching were succeaded by convulsions, fillowed by extreme prostration. In this extremity,

Dr. Le Coniat was sent for, who, after a few minutes' manipulation, arrested crery symptom of sea-sickuess, and gave her entire reilief. 'The disl, osition to womit was completely arrested, nor did it assert itself agnin during the worage, though the sea wis rough as before. she ate her meals withont initermpitan, and wilh arelish, until our arrival in Nes Euri.

Althoush I was so ill that, with the execption of a sangle instance, 1 did not hive my herin from Saturday a:ternoon mat. 1 Tuesday moming, during which time 1 had heea mabite of retam the least
 new remacty, ihinki:g I wonld give time to Nazure to conta to mas relici, s?mold site be disioused to do so. Despeirag at any such aitl, I submited to Dr. Le Coniat's treatherit, the ctict whech so fortidod my siombera nad sumoved all dismosition to n:us:a, that 1 was enabled to eat my brackfast and
 The effect of the remedy in my case was not aithgeWher ermplete and permanent, though 1 exieratenced great reitef at the tme. On stimitiaig to the creatmene a secoml tane, I was entirely curvd.

Dr. Le Comiat aphlied his remedy to many others during one lussaige, always produciats great and immediate relief, adod genoraty an enire care. I recoliect toa instances whate laties had been conaned ou their berthes for scieral days, un bible cither tu cat or to raise thenr heads irom the illow. 1 m anediately after the Ductor's troament, they took their seats at the dinitio table, and ocenpied them at every principal :e eal during the rest of the passute. Dr. Le Cuniat's theory is, that sea-sichuess is induce loy electric disturimace thronghout the system, and that $r$ miting at these times is induced be an invohntary spasmodic eontraction of the stomach from the pyloric to the cardace oritice, thereby emptying thit orgam. In order to reverse thas abommal condition and restore the electric equiligrinm, he places his pratient in a homizontal position, monsers the stomach, and applies to the shin, immediately over it, is shlution if smphate of atripine in the priportion of one grain to an ounce of water ; he then places the negative pule of a gilvanic hatiery, terminating, in at that disla; upon the stomach correspominer to the protoric region. Then, with the postive pule temanating in a anoist oponce, he manimbates acoss the surface of the skin from the cardiac to the prlaric orifice. These aninipulations are kept up fur threc or four minutes, occasionally vayying them by ventical parses downward. Whrin the transit of ine positive pole across the surfice, the muscles can be seen to contract vignewasly. The stimulus of galvanism rendered to the stomach by these mems is much the same as that given to ainy other parsiyzed or weakened muscle of the body-certainly the offect produced justities the thenry. It aprears to be not only local In its infuence, but persiding ; the whole system secms to be brughtit under its control ; its difects are sonthins and refreshing, and genemaly accompatied with drowsiness, foulowed by refreshing sleep.

Dr. Le Coniat has been pristising and improving his new remely for alonet cater years past; he has witten one or two minor articles oa the subject, whish have ioern published in some of the Frend jouraals. On his return home, he propuses to pub-

䜣h a treatise on the subject for the benefit of dience.

- Be claims to cure at least 90 per cent oi his par tiente suffering from vomiting and the pains of seacickness. He also clains that he is able, by the electrization of the stomach, with the local application of sulphate of atropine, to control the voniting and sickness incident to the early period of pregnaricy.
I am aware that electricity has heretofore been recommended for sea-sickness, but I think to Dr. Le Coniat alone is due the credit of perfecting a method by which practical and permanent results have been obtained.
The battery used by Dr. LeConiat is one of the ordinary vibrating, carbon, and amalgamated zine order, capable of double gradation. The so.ution for the battery is made as felloms:-Take $\frac{1}{8}$ oz of bichromate of potash, dissolve it in 9 oz . of warm Fater; when cold, add $\frac{1}{2}$ oz. of sulphuric acid.N. Y. Med. Jour.


## Prevention of Sea Sickness.

We quote from an article on Sea-sickness, in the Neie Yurl Mcdical Ju!!raal, by Dr. Fordyce Barker.
The following suggestions for the prevention of rea-sickness were first written years afo for a gentleman uhose business required him to cross the Atlantic often, and who was always kept in his ronm by severe sea-sickness during the whole wiyage. By implicitly following the directions given, he has suffered very little from sickness, and has been able to go on deck by the second or third day, and has been entirely exempt from sickness for the remainder of the voyage. They have since been copid many times, and their value thoroughly tested. The trouble, however, is that most persins do not appreciate how much casier it is to preve. $t$ bea-sickness than to cure it ; and so, none but those who have before suffered will thoroughly carry ont the directions, and, neglecting some of then, are disappointed in the results:-

1. Have every preparation made at least twentyfour hours before stirting, so that the system may not be exhausted hy overwork and want of slecp. This directien is particularly important for ladies.
2. Eat as hearty a meal as possible before going on board.
3. Go on board sufficiently early to arrange meh things as may be wanted for the first day or two, so that they mav be easy of access; then undress and go to bed, before the ressel gets under reigh. The neglect of this rule, by those who are lisble to sea-sickness, is sure to be regre ted.
4. Fat regularly and heartily, but without raising the head for at least one or two days. In this may the habit of digestion is kept up, the strongth to preserved, while the system becones accustomed to the constant change of equilibrium.
5. On the first night out, take some mild laxative pills, as for example, two or three of the compound thubarb pills.
Most persons have a tendency to become constipated at sea, although diarrhceat occurs in a certain percentage. Constipaiou not only results from mas-sickness, but in turn aggravates it. The reuson
hes already been given why cathartics should not be taken before starting. The effervercing leras: tives, like the Seidlitz, or the solution of the citrats of magnesia, taken in the morning on an empty stomach, are bad in sea-sickness.
6. After having become so far habituated to the sea as to be able to take your meals at the table and to go on deck, never think of rising in tho morning until you have eaten something, as a plate of oatmeal prorridge, or a cup of coffee or tea, with a sea-biscuit or toast.
7. If subsequently, during the voyage, the ses should becone unusually rough, go to bed before getiing sick. It is foolish to dare anything when there is no glory to be won, and something may be lost.

## (From the New Fork Medical Journal.)

## On the Mi icroscope, as an Aid in the Diagnosis and.

 Treatment of Sterility.Be J. Marion Sims, M. D., new yore.<br>$\qquad$ rork

(Read at a Mecting of the Mestical Soriety of the Co. of Neve York, December 7, 1868.)

By the kind inritation of your President, I have the ho:zor of appearing before you, and of stating myviews on the snbject of sterility; a subject alwava interesting, whether viewed in its bearings upon the happiness of individuals or the prosperity of states. It has engaged the attention of the profession for ages, but, till within the last twenty-tire or thirty years, little or no progress was made in its treatment.
The first step in the right direction was taken by McIntosh, when he dilated the contracted cervical canal by bougies, and thus allowed the semen to pass th the cavity of tine uterus. Sir James Y. Simpson folcowed nut the same idea, when he subsequently incised the cervix to render its canal permanently larger. As the Edinbury school, has, then established the fact that a dilatation of the cervix, whether by bougies or incision, is sometimes followed by conception I claim to have established further facts in the same direction, which facts constitute the basis of the present pap $r$ "on the microscope in the diagnosis and treatment of the stovile condition." 1 have been accused of cutting pen the cervix iteri recklossly and unnt cessarily. True, I have laid down rules for the performance of this operation, unier various circumstances; and I know that I have ha:d some earnest and enthusiastic followers. If I have mi-led any of my brethren, it is my duy to hasten to rectify the error. So far as incision of the cervix uteri for dysmenorrhoas in the abstact is conct med, without refi rence th the stenile state, I wish it to be understood that I have nothing to recant, nothing to undo. But, 80 far as this operation may be indicated in cases of st, rilit:, properly ppeaking, without regard to the relief of physical suifering, I candidly confess that. I have a word of advice for $n y$ younger brethren; for I an now convinced that ; have repeatcdly cut. open the cervix uteri, for the sterile state, when the operation was both nseless and unnecessary ; and I am sure that alwost every other surgeon, who has.
performed this operation ofton, hins made the same mistike. How frequently have wie all heard it said in consultation. "No operation is needed in this cine, becanae the s.ound can be easily passed slong -the cervical canal !" And agair, how often have we heard it said-how often have I said it nyself"An operation is necessary in this case, because the caual of the cervix is two small to pernit the easy entrance of the semen!"

Now, these inpprirtant questions ennnot be determia red with any degree of aieuracy in this haphaswd manner. For it is not ulways necessary to inime the cervix uteri, simply tecause it does not easily admit the pass ge of an ordinary sound ; nur, on the uth r hand, are we justified in condeuning an operation, simpiy becasse the sound can be pass d exsily. In other words, a very small os dлes $n$ n always call for operation, nor does a larger one alwars forbid it. Do you not think, then, th it a great service would be rendered, if we could reduce this question of uneration or no operation, fr.m the broad domain of speculative cpinion to the narrow path of abs hute scientific certainty? There is nothing easier, for the microscope aceom$p i$ ines this in the most perfect manner ima insable. It settles the question of operation, or no operation, in an insta t, leaving mothing wh.tever to ive gaessed at, and nothing to be desired.

Is it surprising that positive knowledge of this sort should meet with opposition amons honest, -earnest cultivators of medicine ! Not at all. For it is ever so with any great trath. It must first be opposed, then ridicuied, after a while accepted, and then comes the time to prove that it is not new, and that the credit of it belongs to some one clse. The trath here announced has had its day of oppositron, and it must now soon take its stand as established and acknowledged.

On the subject of the microseopic examination of the utero-vaginal secretions, I have been misrepresinted, maligned, and positively abused ly a few booth abroad and at houre ; and I have been misunderstood by many who have not taken the trouble tor Fead, to investigate, to think, and to reason for themselves. And, Mr. President, under these circumbstances, I cannot thank you too much for the high privilege of appearing here to explain and to defond my prosition by layng the farts in the case befure this learned Society, this great gathering of my courtrymen, whose decision, 1 am sure, wiil be in accordance with ir th and justice.

We may all differ honestly about abstractions, and theories, and mere opinious; but, when it somes to facts and figures, there ciannot long i.e a preat difference among nen of good common sense, winh honesty of purpose in pursuit of truth. I have never yet been aircid of truth, however much it may conflict with prejudices, find it where I may ; zordu I ever expect to see the day that I we nid fear tor publish my convictions on any matter of profespional importance, be the character of the opposition What it may; and, particularly, when I feel that stiase convictions are based upon facts $t$ at are immantable, and that lead to results of the gravest anportance to the honor of medi.ine and to the advasicement of knowledge. Whitever gives to any department of medicine greater exactitude, lielpe to raise it to the dignity of a science. And this' is' what I claim to have dene with the microsexpe in this direction.

The microscope has done, and is doing a greed work in medicine, as weli as in the collateral ack ences. But I know of no field in which it will bs? of more practical use than in the diagnosis arid. treatment of the.sterile state. For, where everg: thing was a short time ago in doubt and confusiong: all is now made clear by this wonderful instrument: Even in this day there are many very honest cultiraturs of medicill science, who du not believe in the value of the teachings of the microscope.
The great Velpean died, huving 10 faith whatever in its practical utility. A few years ago, I was one of those benighted scoffers who believed it to be merely a scientific toy, with which to while away leisure holי". Fortunately, my ignorance was dispelled, and I now lonk upon the microscope as essertial to the daily duties of a physician.

With these prefatory rumarks, I now beg leare to give you some illustrations of its use in the treatment of the sterile state.

In the investigation of any case of sterility, thero are three questions that nust be settied at the outset, if we expect to treat it understandingly :

1. We must be sure that we have semen with spermatozoa.
2. We must ascertain if the spermatozoa enter the utero-cervical canal.
3. We must deteruine whether the secretions of this conalare farorable or not to the vitality of the spermatozos.

For, if the semen does not contain spermatozo of course the uterine condition does not call for any treatment whatever. But if it does contain. spermatozua, and if they do not enter the cervical. canal, then there is the question of operation or not, to permit their entrance.

On the other hand, if we should find spermatozon in the crervical canal, ther, as a rule, no operation will be needed; and if we should find them there in abundance, and all alive, then the case needs no treatment whatever. But, if we should find them there, all, or nearly all, dead, then it is evident, that the secretions of the uterocervisal canal poison them, and therefore the physical condition, giving rise to this abnormal secretion, nust he searched ont and treated.
(to be continued.)

## Oase of Placenta Pravia, Successfolly Firezted by Simpsor's Methjo.

By JOHN W. BOOTH, M. D., of tally-ho, NORTH catolina.

On the 22 d of Tune, 1868, I was hastily sum: moned, nbout sunrise, to visit, with Dr. Cozart; the family physician, Mrs. R., ubout six months advanced in her seventh pregnancy, who had beem. suddenly attacked, the previous evening, with profuse and blvody hemorrhage, which had almost: ceased spontaneously before the arrival of Dr . C . There had been a very slight discharge of blond during the night and until 1 saw her. We both remained with the patient until the morning of the: 23d, when leaving her to the care of Dr. C., I made some necessary calls, and returned late in the afternoon to take charge of her during the night, that Dr. C. might attend to his most urgent duties and
yoback, we hoped, before the time of greatest wied: During the whole of this time after my arnival; althoagh very litte had been done in the way of treatment, there had been no discharge, and only occasional very slight uterine coniraction. From the symptoms, we stzongly suspected that the llooding proceeded irout placenta previa. The aterus was too high up to be reached ly a common digital examination, and the urgeucy of the case did not yet require any further. Hence we deemed it unsife to leare the patient without professional assistance at hand.
About 10 o'clock, having gone to bed in an adjoining room, I was awakicned and infurmed that wy presence was required. as Mrs. L. was firoding prodigivusly. I lost no time, a nd found her almost in extremis. The bed was deluged with blood. The lady's cheeks and prolabia were blanched; she was nearly pulseless, etc.; in short, almost in a state of collapse from loss of blond. and after that a few pains, which she described as only a "drawing sensation."
I anw introduced my hand into the vagima sufficiently to pass my two fingers through to the placenta, which was implanted centrally over the internal os. With my finger I detached the placeuta and withdrew it, not withont some difficulty. The internal os, which was barely dilated en $\circ$ ugh to aduit two fingers, contracted from the irritation and impeded the movements of the inger. The fooding immediately ceased, and the patient was soom delivered of a small dead foetus. She did very well, never haring a bad symptomafter the detachsuent of the placenta.-Americain Joursul of the Medical Šiences.

## On Poisoning by Tinctura Ferri Perchleridi.

By J. W. Warburton, M.R.C.S.E.

There being, I believe, no case of poisoning by the ahove tincture on recorn, and but few by hydrochloric acid taken alone, I an induced to give the nutes of a case attendicd by me on Dec. 5th last.
The patient, Mrs. $\mathbf{R} —$, ag $d$ thir' $y$, in rather delcate heaith, had by her an ounce buttle of "steel drups," which she was taking by medical advice. Prov.nus to the occurrence now related the bottle was full, and she had not taken any food for about seven hours. At 4 P.M. on the day named, Mra. $\mathbf{R}$ ——, after a quarrel with her husband, in a fit of passion, swallowed the whole contents of the bottle, with a view to commit suicide. She continued well for about a ytarter of an hour, when violent convulsions allecting the whole bondy came on. I arrived a short time aft rwards, and found her lving on a sofa: face somewhat flushed, eyes injected, pulse small and accelerated; unable to speak, and apparently unconscious. A little mustard ind water had been given her withont effect. Another spasm soon came on, during which the body was much conturted; the muscles of the extrenities contracted violently, and the treth were clenched and ground together. She rquird to be Festrained upon the cuuch, and her hold upon those near her could not be unloosed until the spasm tudideniy coased. She tien appeared free from pain, but was osly partia.ly conscious, and contimued unable to speak. After some little difficulty
in opening the mouth, I gave her a sulphateofzinc emetic, with plenty of warm water. As this did not act, and the spasms recurred, in the nexi interval I repeated it, this time tichling the fauces with a feather. Copious vomiting ensucd, of a clear, reddish-yellow fluid, evidently contrining aconsiderable amount of tincture of iron, with a little mucus. I may here remark, that the duration of the attacks was ahout two minutes, that of the intervals three. After the romitang, immediate relief was experienced; no more spacms cune on, and she rapidly recovered the use of her facuities and limbs. Half an bour after the sickness she had an attack of diarrhoea, with black stools, which soun ceased. At $9 \div 0 \mathrm{P} . \mathrm{M}$. the patient felt quita well, with the exception of some sureness and stiffness of the limbs.

The chemist who supplied the "steel drops," told me it was the Tinc. Ferri Perchlor di, B.P. The symptoms of irritint poisoning in the abuve case were doubtless caused by the free hydrochioric acid, which is always present, more or less, in tincture of iron.-Laucet (Lny).

Sir H. Thompson on the Diseases of Urinary Organs.
A Nef Mode of Egamining the Urinb.-I shall here, by way of episode, refer to a mode of dictermining the true character of a patient's urine, which is of extrome value in some doubtful casesa mode which has, never to my knowledge, been recommended or practiced, and which I have s stematized for myself. I have a ready to.d you how. essential it is to aroid admixture of urethral prodacts with urine, if you desire to hare a pare sp:cimen. It is sometimes quite as essential to avoid its admisture with products of the bladder. And I defy yon to achiere diagnesis-by which i mean a demonstration, and never be satisfied with less if it be practicaile-in some few cases, without following the method in question. When, therufore, it is essential to my purposc to obtain an absulutely pure specimen of the renal secretion, I pass a suftgum catheter of medium size into the bladder, the patient standing, draw off all the urine, carefully wash out the viscus by repented a nall injections of warm water \}before shown to be rather soothing than irritating in their influence), and then permit: the urine to pass, as it will do, gütatim, into a testtube or other small glass vessel for purpose a of examination. The bladder ceases fir a time to be a reservoir; it does not expand, but is rontracted round the catheter, and the urine percolates from the ureters direct. You have, indeed, virtually just lengthened the ureters as far as to your glass. And now you have a specimen which, for appreciating albumen, for deternining reaction, and for freedom from vesical pis and even blood, and from cell growthe of vesical oligin, is of the greatest: value, and has often furnished me with the only: data previunsly wanting to accomplish an exact diagnosis. Mind never to be satisfied to guess at: anything; make, very cautinusly if you will, yoor pri v sional theories about a doubtfnl case-indecd, the intellectual faculty will do this constantly, ana withnut reference to the will-but arrive at no conclusion, take no action except so far as you are warranted by facts.-Lancet.

## Sir Jemos F. Sirapson

## ON THE PREVENTION OF SMALL POR.

As a proof of Sir James 'Y. Simpson's indefatiasble exertions in the promotion of sanitary science, a recent pamphlet on the stamping out of small por may be cited, which contains elemeuts of a plan by which small pox may be as easily contined, as weill as stamped out, as the recent cattle plagie was done. The principle inculcated is that of entire and perfect isolation-that is, that all cases on their appearance, whether in the higher or lower ranks of life, should be placed as it were in quarantine: that no one shculd, on any pretence, be allowed to eater the sick chamber; that the attendants and nurses shnuld be those who are certivie! to be nonconductors, or incapable of being affected, in consequence of having already passed through cow-pox or small pox. Not only is the seclusion whether at Lome or in hospital to be continued during the procoss of the disease, but as it is well expressed in the Eystem of regulations shown up by Sir James Y. Simpson during the convalescence from the disease, or until the power of infecting others is past. Now, this is a point on which the general public are deplorably ignorant, as they fancy as som as the disesse manifests a remission, that all danger is past, Wheras, it is well known to the profession that during convalescence there is more danger from infection than at any other time. One or two instances of this are mentioned in the pamphlet, one particularly, where a healthy merchant took scarlet fever by receiving a letter from the hands of a little girl, his lodge-keeper's danghter, whu was in convalescence from the disease, and of which he erentually died. 'This, therefore, proves how, in all infections diseases, os strict system of quariatine should be enforeed ; and though in some diseases this measure is only of partial benefit, from the impossibility of complete seclusion from all susceptible of taking the disease, in smill-pox this is so far obriated, it is possible to surround the patient by those incapable of being afiected.-New Orteans Jour. of Medicine.

## Ettendance of Medical Officers at Hospitals.

The question has often been asked us, and again quite recently, whether medical ofticers of hospitals ean reasonably object to some record being kept of their attendance at the institution to which they give their gratuitous advice. We cannot see how :uny such objection can be tenable; for, though "officers," the medicel men are still "mon under azthurity;" and although their services are gratuitous, they mist, in some sense, be under the authority of the Board which appoints them. At many, if not most, of the Loudon hospitals a recond is kept by the medical officers signing an attend-ance-boot on entering the institution; and this is obviously a more agreeable method than being "marked" by a subordinate. At one large school and hospital, whilst no record is kept of attendainces, the beadle is provided with a "Register of $\mathrm{O}_{n 0^{*}}$ sd Lecturer," and it is his duty, whenever a lecture or attendance is omitted, to bring the book to the delinquent at his next attendance, in order that the omission may be registered with his sismacrere. Law is said to have a terror only for evilatoers; and so we inagine any regulation which
brings intr contrast the regular attendance of the zealuus officer with the pertunctory perfonnance of daty by an indolent colleague could have no terrors for the former, whilst it rould show those interested in the welfare of the establishuent by whom the work was done.-Lancet.

## Vaccination.

The Board of Contrullers of the Public Schools of Philadelphia, at their neeting on December 8th adopted a resolution that hereafter no clild shall be adnitted to or continued in the public schools of Philadelphia unless it has been vaccinated. The propriety of such a regulation may le jadred by the forcible remarks of Sir James Y. Simpsin, the celebrated physician of Edinburgh, who kays that " a rattlesnake or a tiger escaping from a travelling menageris into a school full of children would, in all probability, not wound or kill nearly so nany chidren as would a boy or girl coming anony them affected with or still imperfectly recosered from scarlet fever, measles, or small-pox. Most probably these ohnoxions animals are always, as far as possible, prohibited from making such visitations, and the infected boy or girl shonld be prohibited also during the time that they are rumning through the courses and convalescence of such contayions distases, or while they cxhale from their budus a virus of dangerous and deally poteacy." 'The Schoul Controllers should, therefore, adopt a fuather regulation in $r$ ference to the re-admis ion of pupils who have not perfectly recovered frum the diseases mentionel.-Med. und surg. Heporter.

## Dr. Brown-Sequardi and the Paris Facuity.

We are informed that in all probability Dr. Brown-Séquard nill shortly be calied upon to occupy a chair in the Paris School of Medicine. Before the change which we mention in another part of our journal, and by which Chaude Bernara's labmatory has been transferred from the Sorbonne to the Muscum, it had been arranged that Dr. Brown-Séquard should take the chair of Comparative Physiology at the Museum. Now, howevtr, in the honour of the genticman last named, the chair of Comparative Medicine, which had been created for River, and which since his death has remained unoccupied, will again be frut up, and will be given to Dr. Brown-Séghard, with the new name of chair of Comnarative Patholesy. We are glad to be the first to mention this event, and we only see :dditional evidence of the high estimation in which Dr. Brown-Séquard is held, in the efferts which are being made by the French Guvermment to att:ch him to one of the scientific or medical chairs of Paris.-Lanct $t$.

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In a letter from James B. Burnett, to the New Oricans Journal of Medicinc, we find the following:

The clinical adrantrges of New York City are grand. In no other city of the United States are the resourceo so immense. To give you some ider

What is going on in this line, allow me to give you the weekly calendar of clinies in the different medical colieges, hospitals, infirmaries, etc. : Monday: 2 surgical, 1 obstretrical, 1 medical, 1 venereal, and 2 eye clinics; Tuesday : 3 surgical, 3 medical, 1 opithalmic; Wednesday : 2 medical, 3 surgical; Thur:day: 2 surgical, 2 medical, 1 obstetrical ; Friday: 2 surgicu, 2 medical, 1 eye and ear, 1 veperial, 1 obstetrical ; Saturday : 2 medical, 1 surgical, 1 childrens' diseases. Besides these, on Thursday, at the College of Physicians and Surgeons, Professor Draper holds a clinic on skin discases; the Cosmopolitan Eye and Ear Infirmary is open every day at 2 o'clock, P.m., and there are many other institutions where most invaluable clinucal advantages can be freely cajoyed by all.

Antiseptic Surgery. - M. Maisonneuve, of Paris, contends that it is our own fault if the results of the great operations of surgery are not farorable. He summarizes his method as frilions: "Lifeless orgazic liquils are the only canse of the untowad st:ate of wounds. The indications, therefore, are to prevent the death of the organic liquids, and to eliminate them when deprived of life. To fu!fil the first indication we must prevent the prolonged contact of living fluids with dead organisms, be the latter solid, liquid, or giseous. To fulfil the second, we should eiminate dead huids by counter upeuings, irvigations, or drainage, lout especislly by continuous aspiration or suching' up, which last measure may advantageously rephace al those above mentioned." This aspiration is carried out by means of a bag connected with a tabe.
M. Jules Guérin contends. that he is the author of the method, having all his life advocated s:lbcutinecous surgery. He, however, does nut, like M. Maisonneuve, pay attention to dead liquids; his obect is to prevent complications by an apparatus either before or after the introluction of air, which he calls pneunatic occlusion.

Such is the difference of views and practice between those two ingenious men, who, after having worked together in this field of inquiry in a friendly manner, are now engaged in mither bitter polemics.
M. Maisonnenve statcs now that his method is carried out among the patients at the Hotel Dieu, he does not see any fatal cases after amputations, compound fractures, \&c. These favouraisle results naturally bring to mind the success which is nowadays attending Lister's method. The latter surgeon endeavors to prevent the admission of germs into wounds, and thus considers that no decomposition takes place. M. Maisonneure prevents the death or decomposition of fluids by a sucking or aspiring apparatus; and M. Jules Guérin by preumatic occlusion, as he calls it-i.c., atmospheric cumpression and exclusion of air. Maisonneuve and Gutin are not so generally imitated in France as Lister is in Britain. Let the three mothods abide the best of trials-viz., the trial of itime.-Lancet.

The Small Pox.-This disease is now yery prevalent and very virulent in the Western cities. $\Lambda$ Thundrad deaths a day have been reported in Cincinati. It is dc ared to be an epidemic in St.

Louis. It is scourging Chicago, though nothing is said about it in the newspapers. In Milwaulee the public schouls and the rink have been closed in consequence, and the shatting up of the theatres, concert saloons, and othcr places where people most do congregate, has been discussed. The Board of Health of Detroit have determined, if possible, to take a bond of this deadly fate, and protect the city against it by precauticnary and preventive measures, and "stamp it ont" the moment it appears. Thus far, thanks to the sanitary authorities, the city has been peculiarly exempted, but in order to guard it still more strictly, the Board of Healih is determined $t_{0}$ insist upon the necessary sanitary measures. It regards vaccination as absolutely imperative.-Detroit Fost.

On the Employment of Belladonna in Surgical Affections.-Mr. Christopher Heath states that the action of belladonna, whether applied locally or given internally, is the same, viz., that by its actinn upon the vasa-motor system of nerves it dimiuishes the calibre of the capillaries, and thus directly reduces the vascularity of an inflamed part. Its action is thus peripheral; and it is, therefore, the opposite of aconite, whose action is central, or upon the heart itself. It does not follow, however, that the two drugs cannot be employed together; quite the contrary: the action of the one is to diminish the flow of blood to the part, whilst the other assists the tissue to get rid of the superfluity it already contains and resist its further entrance, and the two may in many morbid conditions be advantigeonsly combined.-The Practitionur, Nov., 186.
-The scientific and modical revolution which has lately been accomplished in Spain, and which we noticed in a recent annotation, is beginning to bear its iruits. As complete liberty of teaching has been proclaimed, the School of Medicine of Madrid has become a sort of open forma, where professurs and alunni, workmen and employers, follow each other in rapid succession. The homeepaths of Spain are in a state of jubilation, as the frecdom of teaching cnables them to propagato freely their own doctrines. We doubt whether the hurried and sweeping reforms which have overturned almost every existing institution in Spzin will be productive of much good. The cause of science can but suffer from such precipitate measures, which will bring on a reaction, and will thas retard its slow but certain progress and develop-ment-Laucct.
-Deputy-Inspector-Gencral Longmorx, of the British service, professor of military surgery in the army medical school at Netley, has been appointed honorary surgeon to Her Majesty the Queen, vico Dr. Melvin, Inspector-General of Hospitals, de-ceased.-N. Y. Mcd. Jour.

Infucnce of Digitalis on the Pulse.-Dr. Constantin Paul has fublished ( Inlletin Gorior. de The repentique, tome ixxiv., 18u8) a rescarch on the iuftuence of digitalis on the pulse, in which hid principal results were obtained by the use of the
sphygmograph. He thas states his conclutions: Digitalis, i) small doses, generally disninishes the frequeney of the pulso; in large coses, it increases it. When digitalis is exhibited in such doses as to proince ita hyposthenic effects, it lowers the arterial teneion ; and the contraty effiet may possibly be produced by very mall doses, as soms investigatore have asserted. Finally, it is probsble that digitalis raises the arterial testsion when it dimininhes the frequency of the pulse, and that it lowers thio tension when it increases the number of the puleations.-Journ. Anat. and Phys., Nor., 1868.

Syrup of Codeia in Whooping-cough, etc.-The Fmirnal fïr Kinderlirandiciten (7, 8, Hft, 1898) mentions that melon symup, contrining codeis, is at present ased sa a specific against whooping-cough in itals. It is also emploved in other convulaive coughes of chidren, especially thnse which are the sequhe of acute inflammations; siso in the nervons theking cough of pregnancy in nervous and sensitive women.-The Practitioner, Dec., 1868.

- Wo regret to have to announce the deaths of neveral distinguished Continental brethren: M. Aniltara, one of the proviocial notabilities of France, who as chief surgeon to the Hospital of Paictiers, and as a writer and operatur, had oninved onnsiderable reputation; MI. André Utterhovern, one of the most distinguished medicnil men of Belkiam, Surgeon-in-Chiof to the Haspice Ste. Flieahoth of Antwerp, former Professery of the Free University, Member of the Academy of Medicine and of the Roval Society of Brussels, and the suthor of several surgical proceedings and valuable writinga; and M. Gubian, en sble physician of Loons, one of the founders of the General Dinpenanty of that city for giving medical relief to the pmor in their own homes.-Lancet.
-The Prall Mall Gavette stutes that the Rusainn Covemment hos offered a prize of 3000 roubles ( E 4 CN ) fir the bust history of Frecination, by way of celebrating the hundredth anniversary of the in: tenduction of that practice into Rnasia by the Gimire sa Catherine 11. The prize is opon to all Tirronman connpetitores. and the historv may be wribten in any undern Euroneanlanguage.-Lancet.
-A new effect of the sulministresion of chlorofrom was pointerd nut by M. Hurteloup it the leat menting of the Chirurgical Society of Paris. A wnmen who had heen chloroformised was reized, or arel: ing, by a fit of ancesing, which lasted continumple duriag a quarter of an hour. H. Hurtefoun beyintwa that in casee of autnplastic operations ort the fac: thia mar onnstitute an inconvonience. n peorvont of tre diffliculty of maintaining the a 'rures of the antoplastic daps.-Larcet.
-The sorvicen nn 7 suferinge of Dr. Binnc snd 'rys enmp ninna in Abvasinian cuptivity, have at Tingth buan urknowlodged nubatantially be the Fircomment. Wn do not think the staunchost and$\therefore$ - vato fir oconriny will consider that the $£ 2$. . ${ }^{-}$ © pe $\mathrm{s}^{\text {tow }} 1$ to Dr. B'inne in a lavish sum when put in emn rerision with the imminent riak in which his ife - on lotg pramed. - Lanect.

FIA
We have received the report of the Medical Oficer (Dr. O'Reilly) of the Hemiliton City Hum pital, for the year 1868, and notice the following items in report:

| Petionts remsining in Hospital, Jan'y $18 t, 1868$ | 4 | 4 |  |
| :---: | :---: | :---: | :---: |
| Patiruts admitted during 1868 | 239 | 193 | 2 |
| Births in Hospital during 1808... | 22 | 13 | 5 |
| Tutal No. in-door pa | 285 | 220 | 515 |
|  | h . | F. | " |
| ients remaining in Hospital, Dec. 31st, 1868. |  |  |  |

The following table gives the number of patients discharged from Hospital during the year :


The following are the diseases which proved fatal during the gear and the nuniber of deathe from esolh disease, (including seven persons admitted to Howpital in a dying state.) Coronera' inquests werí held on three of thane cases.
Asciten ............. ....... $2 \mid$ Phthiais... ............... 2
Cerebritis ................... 1 Juiuries..................... .. 1
Dierthata .................. 2 Woands.. ................. 1
Heart Lisease............. ... 2 Peritonitis ................... 1
Pneumonia.
typhoid .......
Tatanus, idiu, puthic.... 1
The following is the result of treatment of thobe patients discharged during the year:

The number of out-door patients attending the Hospital during the year was 331. Thiriy-meven visits were made during the yenr, in cases of ernergency, and to paupers "too ill"' to be removed to Hospital.

$$
\text { Tutalk for } 186 \text { R. }
$$

$$
\begin{aligned}
& \text { Total No. in-door pratients..................... } 180 \\
& \text { " of hirthk. ..... ........... ......... :\$5 } \\
& \text { ". out-dour patients... ................. .. } 3 \text { : } \\
& \text { Total number under treatment in 1868.. } 846 \\
& \text { C. O'Reilis, M.D.C.M., } \\
& \text { Resident Dhysicien. }
\end{aligned}
$$

## Notice to Eeader, Ocirsspondents, \&

The Editor having been reguested by a number: of medical mon to act as agent for the purchase of Medical Works, Instruments, Drugs, dec, hns mado. arrangements with the leadiag houses hereat in New York, and will be enabled to obtain thrue articles in such a manner wa he is confident Fill give satisfaction to the profemsion.

1 st Experiment


Brd tiverimeni.




