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## THE

## medical chronicle.

## ORIGINAL COMMUNICATIONS.

ART. XIV.-A Lecture on the Diastalic Spinal System. By Marbaniz Hali, M.D., F.R.S.L. and E., Foreign Associate of the " Actad tmaie de Medecine" of Paris; \&c. \$c.

## To the Editors of the Medical Chronvicle.

Gentlemen,-The following lecture, with variations suggested by eack occasion, was given to my raedical brethrer at Quebec, Montreal, and Toronto, in July and August, 1853. It presents an outline of investigations to which I kave devoted a quarter of a century, and I trost it wih not fail, in its printed form, to interest the student of medicine, the physiologist, and the practitioner.

One idea frequently recurs to my mind. It is, that our profession will take the rank to which it is entitled, when that is achieved for it which was achieved for astronomy and chemistry, when they were rescued from the superstitions of astrology and alchemy; that is, when it is raised from its manifoid empiricirms-its Mesmerisms and its Hahne-mannisms-to its true dignity of a noble and elevated science,-when physiology is our guide in the medical ward and in the sick room.I am, Gentlemen, yours faithfully,

Marshafi Hall.

LECTURE.

Gentlemen,-My first object on the preserit occasion is to show you the fow and simple cxperiments on which the establishment of the Diastaltic Spinal System is founded. My second will be to demonstrate the application of the principle of this system to the study of physiology, and of the pathology of convulsive diseases, and especially of epilepsy.

The whole class of the acts of ingestion and of egestion in physiology, and the science of Obstetrics as related to one branch of these; and the whole class of convalsive diseases in pathology, are part and parcel of this spinal system. The principle of the spinal system is as Axiadne's web in regard to these departments of modical science.

With these very brief remarks I proceed to experiments:-
The first of these consists in dividing the cerebrum, the cerebellum inclusive, from the medulla oblongata. I thus separate the cent es of the cerebral and the spinal systems, and consequently the systems themselves, their functions and their phenomena, from each other.

Now perception and volition, and volurtary and spontaneous movements, the allies of these, reside in the cerebral system.

I make the division to which I have adverted, either by passing a couching needle, so as to sever the ccrebrum from the medulla oblongata, or by removing the head at once, at the same point, by a pair of sharp acissors.

There can, of course, be no manitestation of cerebral phenomena in the bead, even supposing feeling and perception to exist. There can be no manifestation of cerebral phenomena in l'he remaining portion of the animal, because the cerebrum is removed or separated from it. What phenomena then remain in it?

If sensation, and preception, and volition are functions of the cerebram exclusively, there can be no phenomena dependent on these; that is, there will be no voluntary, no spontaseors motion, no movement the result of design on the part of the animal. This fact presents us with the experimentum crucis in regard to the questions-In what part of the ner. vous system do perception and volition reside? Are they limited to tho centre of the cerebral system? Or do they extend to and exist in that of the spinal system also?
There are two modes of irrefragatily replying to those questions. The first consists in an appecal to the human subject in cases of injury separatjug the influence of the cerebrum from that of the spinal marrow. Is there perception or volition in any part from which the influence of the tormer of these is removed? The second consists in an appeal to exper riment. Is there spontaneous motion in any part of an animal from which the influcnce of the cerebrum is separated, that of the spinal centre alone renaining?
1 have recently, in July, 1853, had the opportunity of examining, with Dr. Small of Torontu, a patient perfectly praplegic to perception and volition below a certain line a little below the margin of the ribs. Accepting the testmony of this patient, the proposed question is decided negatively.

In similar instinees of injury or disease of the spinal marrow, the same faet, the same proof of the entire absence of perception and volition below the destroyed portion (as to function) of the spinal centre, have existed:
I take a frog and pass this needle between the cerebral and spinal centres; the animal is instantly deprived of movement. But this is the effect of shock-wes :urst wait a few minutes. Now, you observe that I
can, by an external stimulus excite movement in both anterior and inferior cxtremities; the effects of shock have passed off. Still, as you perceive, there are no spontanoous movements.

I will now place the animal in a position which would be most painful, if the faculty of perception remaiued. Still you see that, when it has once become tranquil, the animal, if perfectly unexcited, movesno more. There is no spontaneous motion.

But now observe how slight an excitement will develope movement. I take a toe between my thamb and finger, and gently compress and irritate it. There are vigorous movements enough. Some of these movements much resemble voluntary movements, and so have misled some experimenters into an erroneous conclusion, that perception, design and volition still exist in the decapitated animal. Such phenomena are seen in the frog, and have recently been frequently displayed in the alligator.

I now place this vigorous frog, which has scarcely lost any blood from the operation of separating the cercbrum from the modulla oblongata, ruddy on the back. You see the animal turn briskly on the abdomen, its natural position.

I said I placed it on its back rudely. In doing this I cacited the eisodic or incident dorsal nerves, by the rude contact will the table. I now place it in the same position softly and gently. Y, isee that it retains that position ; and this, I may add, it will do, without alteration, if all excitement be avpided. You may sketch its present form, leave it for the night, and come to-morrow and find that form unchanged, all vital phenomena being extinct. Yet if I irritate the animal at this part, near the sphincter ani, it will, as in similar experiments with the alligator, raise its foot or feet so as, apparently, to remove the source of irritation. How is this fact to be explained, except on the principle of conscionsness and volition?

In every voluntary act there is the concurrence of spinal action with volition. This spinal action coincides and co-operates accurately with that act, and when this act of volition is absent, the spinal action assumes precisely the same form as before. Thus the decapitated fowl will fly ; the decapitated ostrich, as in the case in which the Emperor Commodus struck off its head by means of a crescentiform arrow, runs on ; the decapitated triton, tortoise, or snake, will slowly walk or move on-. wards.

Evidence of this spinal action seconding volition is afforded by some pathological facts. In writing, the thumb, in one case, is carried inconveniently, so as to make painful pressure on its edge. There is lost coineidence of action.

There is nothing more important and interesting than the princ ple of.
associated reflex action. It is on this principle, that inspiration and expiration are linked together, constituting respiration; and that all the acts of ingestion and of expulsion are finished acts, and not mere actions. It is in this manner that certain excited movements are constituted into acts of flight, of leaping, or running, sce. It is in this manner that reflex acts come to resemble voluntary acts, and acts of design.

Another principle is called into action in these latter cases. In the perfect animal, the function of volition is accompanied by spinal action, reflex or direct; the two principles of action coincide with each other; and when one, as volition, is removed, the other or remaining one performs an action similar to the perfect or more complicnted one; the wings excited, perform the act of flight ; the feet excited, perform the acts of leaping or running. The decapitated fowl flies, the decapitated ostrich rans.

If, as I have said, in the decapitated frog the parts near the sphincter ani, are irritated, the two feet are frequently drawn upwards, as if to remove the canse of irritation. Similar facts have been observed in the decapitated alligator. Such facts have been recently mistaken by sevend physiologists for acts of volition, and have been supposed to denote the existence of sensation and volition in the isolated spinal marrow. Such too, was the erronicous opinion of Legallois. I have already referred to the facts observed in the case of perfect paraplegia in the human subject, and to the absence of spontancous movements in decupitated animals, $w$ affording its refutation.

But I must not detain you longer with this discussion, rendered neces sary by the recent experiments on the alligator, to which I have refered and which I purpose repeating during the next winter; not that I doulk their accuracy ; it is their rationale that I question, and I wish to $\mathbf{0 0}$ whether true spontaneous movements occur in that animal when desw pitated.

I now beg your attention to the facts of direct and reflex diastalitie spinal action. I irritate the upper portion of the spinal marrow. You see what energetic convulsive movements are induced. Thess movements are, of course direct. I now excite the akin of the toe. S: milar but reflex movements are the consequence. These events may bi justly regarded as TYPEs of the direct and reflex forms of epilepsy. Ais: thus the paths of the physiologist and the physician meet!

I now proceed to point out distinctly the anatomical course of theies reflex actions. I irritate the skin, and the limb and other limbe moves Now in the skin is the origin of the nervous arc in these reflex actides, This arc, originating thus in the skin, proceeds along the femoral in lumbar nerves to the spinal marrow ; thence along the same nervers (fiey
the eisodic and exodic nerves are containei in the same nearilemma), to the muscles, to be variously excited to contraction. How near is this to a circulation of nervous force '

You may destroy this arc $\mathrm{r}_{\mathrm{g}}$ dividing it in any part of its conrse. I strip off this portion of skir. of the foot and irritate the toe; all rellex action is extinct. I now divide the femoral or lumbar nerve. There is again the absence of all reflex action. Lastly, I destroy the spinal centre; the same result!
This is demonstration: and it is the demonstration of a totally new kind of anatomy. Such a diastaltic nervous arc had not been imagined even. Nevertheless, every act of ingestion and of egestion in the animal economy is a diastaltic spinal act, through such a nervous are or sueh nervous ares as this!
The spinal system is not only the nervous agent in the acts of ingestion and of egestion, but it presides over all the sphincters, and therefure over retention and exclusion : in this manner the iris and the eye-bid; the larynx, the pharynx, and the cardia: the sphincters ani and vesicmas and vesicule seminalis, and of the Fallopian tubes and uterns, are undor the constant influence of this system.
It is precisely on the muscular system thus subjected to the spinal, thint the phenomena of convulsive diseases manifest themselves; and thuis the neck, the larynx, the respiratory muscles, the expulsors, dec., aro each and all singled out and made the seat and agents of this clase of diseases; and hence laryngismus, dyspncea, dysecpncea, globus, emissiones seminis, urinæ, stercoris ; \&cc. dec.
I must here be allowed to state in the most pointed manner, that the principle of the diastaltic spinal system, or that of all the acte of ingertion and of expulsion in the animal economy is, of course, that of parturition or the expulsion of the fcetus; and as a consequence or corollary, of the whole art of Obstetrics. This I pointed out on several occasions many years ago. More recently, Dr. Tyler Smith has, at my request, and under my direction, but with great originality and ability, pursued this subject. I cannot too strongly recommend his work to you. I am sorry that the dedication is not in the terms originally agreed upon between un.
The expulsion of the fotus, the arrestation of uterine hamorrhage, are both promoted by the usual excitants of reflex action.
From obstetrics, in which physiology and medicine meet-for parturition is, of course, a physiological act-I pass on to convolsive disenses, in which the phenomena are all pathological. Every convulsive pheriomenon in the result of an excitation, direct or reflex, on the same diestaltio or spinal system!
These are vast generalizations. To single out one convalsive affection,

I may observe, that epilepsy, that Herculean disease, of which Esquirol said: "Les symptomes de l'epilepsie sont tellement extraordinaires, tellement au dessus de toute explication physiologique; que," \&c., epilepay is become, since the detection of the spinal system, one of the maladies of the haman frame best understood! For epilepsia is, in every case direct or reflex action, and its effects. And epilepsy, and the simple apoplexy of Abercrombie, and what may be termed simple paralysis, and mania, and dementia, may be but different phases of the same disease! Is not this, then, a noble study? And to know the disease is said to be 'half its cure!' It is certainly the means of learning the just and propor treatment. It is also the means of insaring our profession from empiricism.

But I now revert to the experiments with which I proposed to occupy this evening, and proceed to describe them more in detail. My audience will kindly excuse a little repetition.
Exp. 1. In this, my first experiment, I shall endeavor to pass this needle so as accurately to divide the cerebrum from the medulla oblongata. If I should fail in accomplishing this, one of two events will occur; either I shall leave a portion of the cerebrum attached to the medulla oblongata, or I may injure the medulla oblongata. In the former case spontaneous movements may remain ; in the latter, which will be indicated by a laryngeal sound, respiration will become extinct.

I now pass the needle at the point at which I have spoken. You heard the sound; the medalla oblongata is injured; we shall have no spontaneous movements, but we shall also observe that all respiratory movements will have ceased.
But first, gentlemen, observe the momentary absence of excited reflex action when I irritate the toe. This phenomena is the effect of shock-of the shock of the operation. In a few minutes the frog will have recovered from this shock, and on again irritating the toe, energetic movements will be observed.

And now, on exciting the integnment of the foot, the trog actally Leaps out of the plate! But having done so, it remains quiescent, absolutely quiescent, and will move no more! The position assamed woukd be a most painful one, if sensibility remained; and there would be an immediate voluntary movement to change it, if volition remained. But there is alsolute immobility. As I have already said, the position of the animal might be drawn, and if it were preserved from all excitement absolutely, it would be found to be retained until all vitality had ceased.
(To be continued.)

ART. XV.-Cases treated in the Montreal General Hospital, with Remarks. By W. Fraser, M.D., Lecturer on the Institutes of Medicinc, McGill College.

Cass, No. I.
Paralysis of the Bladder, successfully trated by Gadranisn. Roported by Mr. Rintoul, Apothecary to the Hospital.
John Mathews, æt. 60, a British army pensioner, of slender bodily conformation, was admitted into the hospital on the 24th May, 1853, under Dr. Fraser, complaining of inability to pass urine. He state; that four days previously ke got himself wet, on the subsequent day was geized with a severe rigor, and on the day before admission was seen by DrMaclagan of the XXth Regiment, who relieved him by introducing a catheter, and recominended him to come to the Hospital.
Present Coradition,-Slightly feverish; tongue covered mith a pasty white fur, and its papillæ enlarged. When he attempts to make water, only a few drops dribble away; the prostrate seems somewhat enlarged, which is probably senile; no particular pain; has a hydrocele of long standing. The catheter was introduced, and about 12 ounces of urine drawn off, a portion of which was ordered to be reserved for examination. The instrument was directed to be passed thrice daily ; its introduction was attended with little or no difficulty. He was ordered an aperient dranght, and a warm bath in the evening.
26th. On examination, the urine was found to be normal in quality ; no improvement in regard to passing it; complains of pain about the perineum. Ordered a drachm of the tincture of the ergot of rye four times 2 day, and a blister over the sacrum, with the endermic application of. strychnine when the cuticle becomes safficiently raised by the blister.
27th. At noon, a portion of the cuticle having been removed from the blistered part, $\frac{1}{2}$ grain of finely pulverised strychnine was sprinkled over the cutis vera, and at 6 p.m. 1 a grain more.

30th. Nu marked improvement as regards ability to pass urine, which is now, when drawn off with the catheter, deeply colored with blood; is feverish, and complains of sickness and headache. Omit ergot. of aye, and let him have one ounce of the following mixture every fourth hour:-Acetate of potash, 1 oz ; wine of ipecacuanha, 1 drachm ; water, 60 oz.

31st. Fever gone ; feels better, bat is still nnable to pass his urine in fact, thepe is no perceptible improvement in that respect, from the treatment hitherto adopted. The parietes of the bladder were therefore ordered to be galvanized in the following manner: A silver catheter. wian introduced into the bladder, which was made to rest on the fundupsof that organ, and a female catheter into the rectum, which was made to rest an the recto-vesical parietes; they were then putis connection with
the poles of an electro-galvanic machine, which was pat at first into gentle action, and then a pretty strong current kept op for 10 minutes, which produced powerful contractions, tending to expel the catheters. He was then ordered an aperient draught and a tepid bath.

June 1st. Decided improvement, passes the greater portion of his arine spontaneously, though not able to empty his bladder completely; the uxine is no longer bloody.

2nd. Still improving. Galvanism was reapplied as on the 31st, and with the same effect.

3rd. Up to this period the catheter was employed at first thxice dailyr latterly twice, but be has now so far recovered as to render its use unnocessary ; it was therefore ordered to be discontinued.

4th. Still going on well, but weak. Ordered fous onnces of wine daily, and a more nutritions diet.

6th. General health improving, but has a frequent desire to micturate; The stream stops suddenly, and the urine, which has an acid reactipn, isloaded with mucus. Ordered a wine-glassful of the following mixture four or five times daily. Leaves of ava ursi, 1 oz ; hops, 1 oz ; ; boiling water, 1 quart. Infuse, strain, and add carbonate of soda 4 scruples.

8th. At 8 v'clock this morning, had a rigor; accompanied with a sharp pain about the lower border of the left ribs, for which a turpentine stuper was applied with benefit. Evening.-From his inability to pass urine, the catheter was introduced twice during the day. The urine is, at the time of being drawn off, tarbid, with a considerable fiocculent deposit of muous. He complains of severe pain and tenderness about the neck of the blactder and urethra. Ordered a warm hip bath, and an enema of tepid water, after which, should the pain continue, a sappository, contaiaing two grains of opium, to be administered. This latter remedy was found necessary, and when exhibited, gave him marked relief.

11th. Still complains of some degree of pain about the base of the bladder and urethra, but is now perfectly able to pass urine when requisite. The srappository of last report to be repeated in the evening, and 2 grs. of iodide of potassium added to each dose of the uva ursi mixture.

14th. General health much improved. Urine less turbid. Continne.
19th. Is feverish; complains of wandering pains about epigastrium, and a severe scalding pain on passing urine; has probably been exposed to cold abont the galleries. Fancies the mixture disagrees with his stomach. Omit it, and let him have 1 oz . of the following every 4 hours: acetate of potash, 2 drachms; ipecac. wine, 1 drachm; liquor potasem, 1 drachm ; water, 6 oz ., and linseed tea for drink.

27th. Looks and feels healthier and stronger ; passes usine quite freely, and with but slight pain in the urethra.

Ist July. Discharged. His general health much improved, and the
complaint for which he entered (retention of urine,) entirely removed, having now no difficulty in passing water. At his own request, the old hydrocele was punctured, and 8 oz. of clear fluid drawn off, which he gays had been two years in collecting.

## RENARE8.

The canse of the paralysis of the bladder in this case was evidently over-distention of its muscular fibres, occasioned by the retention of urine, which resulted from the wetting which Mathews got a few days prior to his admission into the Hospital. The prompt and permanent benefit derived, in this rather unfavcrable case, considering the man's age, tec., from the direct application of galvanism to the parietes of the bladder, after the failure of the ergot of rye, and other means employed, prove it to be an eligible therapeutic agent in similar cases; and the established physiological doctrine, that although the muscles of animal life are ordinarily and best called into action throngh stimulants applied to their nerves, the muscles of organic life are usually called into action by the direct application of a stimulus to their surface, and are with difficuty made to contract by stimulants applied to their nerves, satisfactority explains the modus operandi of galvanism in overcoming such a form of paralysis of the bladder as this was, and, moreover, shows the practice to be based on principles as scientific as it was successful in the abovo case.
The low degree of vitality of the coats of the bladder, owing to old age and the over-distention to which they had been so lately subjected, together with the irritation caused by passing the catheter, and sudden changes of the weather, to the inflaence of which Mathews exposed himself by walking about the galleries, were the apparent causes of the subsequent irritation of the urinary mucoss membrane.

8 Little St. James Street, July, 1853.

ART. XVI.-The Medical Institutions, foc., of Berlin. By Wm. Hanes Hingston, M.D., L.R.C.S.E., Member of the German Society of Naturalists and Physicians, Berlin.
From the time of Frederick the Great, Berlin has been looked upon as the focus of talent and learning; and has, almost universally, been considered the Athens of Germany. During, and since the reign of Fredorick, it has been the seat of the most polished and refined societysociety to which talent and moral worth, with a liberal education, were the paseports. That monarch (himself a poet and philowopher, at wrell an 2 potitician and warrior) labored hard to make Berlin a capital worthy of Prussia; and his saccessors followed his example. They endeavored to eatablish its repatation by means of men celebrated in the various
fields of science and literature. To this end, Prussia gencrally-indeed every country where the German language is spoken-was canvassed for those who were calculated to add lustre to the university, and thereby to the capital. When no vacancies existed, it has not unfrequently happened that persons have by Government been furnished with the means of living in a style suited to their position, under the condition that they should reside for a portion of the jear at Berlin. In casting our eyes to the large number of scholars, divines, naturalists, learned, \&c., who have here lived and died, we naturally look for those who have laborad for the cause of medicize and surgery, but are disappointed at the smallness of their number; and they, too, for the most part, within the memory of men still young. Thus, while music, the fine arts, the various branches of science, \&c., were encouraged and supported, the healing art was allowed to continue in unmerited obscurity. The cclat that attended the medical institutions of Prague, Vienna, Bonn, Wuerzbourg, \&cc, kept Berlin for a long time completely in the shade.

Towards the baginning of the 19th century, however, she began ts attract attention; her hospitals and schools were more thickly attendec. She now numbers the most students, and the largest surgical class in Europe.

It may be of advantage to some of the readers of your Journal-especially to those who intend visiting this portion of the continent, to learn what are the advantages Berlin affords to those seeking professional education. For this purpose I shall, with your permission, transcribe from my daily journal the observations on, and remarks I have there. noted relative to those matters; and I must be pardoned if I accupy too mach time in giving detail.

The university, a very fine building, built by Frederick William III. was opened in 1810, when, by order of the Prussian Government, or rather the King-for free legislation was at that time unknown-the un:versity was removed from Frankfort on the Oder to its present situntion, Berlin. It is situated in the finest and most fashionable part of the city, in a large broad strect (unter den Linden) directiy opposite to Frederick the Great's monument, nud the palace of the Prince of Prussia, with the Arsenal, Museum, and King's Palace on the left. In front there is a pretty garden, and in the rear a grove."
At first the number of students who were attracted to the Prussian,

- I may here observe, that, generally speaking, the German Universities are situated in" the fment and most beantiful parts of their cities. The German public pay greater attention' to, and ovince greater interest in, all matters relating to education and learning, than do wis British or Americans. On visiting strange cities, their first enquiry is, " Wo ist die miverssitaer?" Persons residing in Britain or America are not often called upan to answer sace questions.
capital wras not very great: for althongh professors of generally acknowledged ability were sent for to all parts of the Kingdom, yet the advantages afforded to military over civil students, prove extremely distasteful to the latter, and prevented many from attending its sessions." By a wiser policy of Govermment, by gradually yielding to the wishes of the people, and by affording to civilians all the privileges they had granted to othris, the university soon began to flourish. At the present moment it numbers 2,200 matriculated, and many immatriculated students. Of the matriculated about 2-9ths are medical. There is no university in Germany where so many students are collected together. Prague, the oldest, numbers 1,272 ; Munich, 1,957 ; Bonn, 866 ; Wuerzbourg, 722.
Labor is thus divided among the various professors in their several de-partments:-In Theology, there are 5 ordinary and 4 extraordinary profeasors, and 2 private docentes; in Law, 9 ordinary and 4 extraordinary do., and 3 private docentes; in Medicine, 11 ordinary, 6 extraordinary, and 19 private docentes; in Philosopky, 27 ordinary, 29 extraordinary, and 31 private docentes; in Modern Languages, 5.
The largest building for the reception of the sick is "La Charite," built by Frederick Willian I., for the edncation of surgeons for the Prus sian army. It continued as suc.c till 1810, when the University $w$. brought from Frankfort on the Oder. Previous to that time there were professors of the Military Academy who gave lectures to the young men studying for the army. In 1810, the professors in the University were allowed wards for their clinique, and students then matriculated. In 1848, Government made still greater concessions, by permitting civilians to become assistants to the professors in one medical clinique.
The "Charite" is governed by two directors-one medical and one administrative. It is divided into old and new. In all, contains 900 beds, bat could accommodate nearly donble that number did circumstances require it. The old contains the medical, surgical, obstetrical, and children ; the new, the syphilitic and insane, sick prisoners, and those sent from the prisons. From the medical four wards are selected for the clinique, two male and two female, one of each for each profersor. From the surgical are taken four wards for clinique, male and female, two of which are for ophthalmic surgery. These are all attended by the same surgeon. The obstetrical department contains only 30 beds, which are seldom all occupied. By a very unwise and prejudicial arrangement, it is open to stadents only in the summer season, and to midwives in the winter. This almost amounts to a total prohibition. There are not, on an average, more than 400 births in a. year. For amall jox

[^0]a very large space is taken. Patients are changed frequently from room to room, and their recently occupied apartments freely ventilated. The greateat cleanliness reigns throughout the whole establishment. The wards are well ventilated, light and cheerful. Each ward containsaboat 16 beds, such wards as 40 or 50 would be crowded into in some of the hospitals of Paris. Those set apart for the clinique are fitted up in a style approaching to elegance-the high roofs, the large and numerous windows reaching almost to the ceiling, the rosewood and iron bedstoads, the polished wax floors, \&c., are luxuries to which the eye is, unfortumately, not much accustomed in such localities.
Apart from the Charite, and in connection with the University, are 3 cliniques, for medicine, surgery and midwifery. They are a." sappercod by Government, and consequently admit patients from all parts of Prussin. Besides these, there are policliniques. Patients not desirous of entering hospital are attended at their own honses by the students; and, when necessary, by the assistant physicians, \&ce. In the hospital of the University, about 300 births take place in the year ; in the policliniqne, between 800 and 900 ouct-door accouchements. There are several private cliniques for the education of young men. It would take op too much time to enumerate and describe them all, and I must content myself with the following:-

The Orthopacdic Establishment of Dr. Buehring. In this establishment, which is situated on the outskirts of the city, almost every degree of deformity may be met with, and an infinite variety of apparatus. $\therefore$. months' attendance will suffice to show to the most sceptical the great advantage that frequently attends the judicious employment of mechanical means for the removal of deformity. The patients (nearly all young girls between the ages of 4 and 16), although obliged to remain several hours a day in a certain position, look healthy. Most of them leave hospital with rosy cheeks, and little trace of deformity remaining. Dr. B. was nephew to Dieffenbech, and edited his work on practical surgery. He seems to inherit the genius of his uncle.

Dr. Von Graeffe has a clinique for diseases of the eye. He enters very fully into the physiology of the eye, and the laws of optics. His treatment of strabismus and perverted vision, by means of prismatic glarsen, has been very successul; also his treatment of ulcers by means of $A$ tropine. Dr. Von G.'s acquaintance with French and English; and hin. desire to impart inatruction by speaking in eithar language when necert, sary, renders him a finvorite with thowe apeaking these languagen.

The following are the establishments not intended for the education, of stesdents:-

Bethaxian, foanded by Frederick William IV., and opened tn 1848 fors the education of Protestant Sisters of Charity as nursea, or Diabomimont:
who here serve a novitiate of one year before becoming sisters. These nurses are not composed of the lower classes, but frequently belong to the first families of Prussia; the conntess of Stalberg, recently married from this institution, had been a nurse for many years. Unlike the Roman sisterhood, they pledge themselves to celibacy but for five yeara, at the end of which, if Providence should have thrown in their way some Likely fellow, they can doff the modest grey and white; if not, they may renew them again, for other five years, or life. They are paid a triflin 5 sum yearly-barely sufficient for clothing. They frequently serve in the Charité, and in the city as nurses. The proceeds of their labor is paid into the treasury of the Bethanien their Mutter Hans, to which they, at-the end of their engagement, return. Like most establishments where sisters of Charity are nurses, every thing is remarkably clean. It, as well an the Charite, are heated by air. Tubes of heated air are introduced into every part of the building, and others for cold air and the remoral of effluvia. The Bethanien accommodates but 300 patients. The beds are six feet apart. It is attended by four physicians and surgeons. The directress and apothecary (also a woman), are elected by the Diakoniseen from among their body.
Elizabethean-for diseases of women generally, contains 90 beds; also attended by Sisiers of Charity.
Armen Haus Hospital, for vagrants (sick), incurably sick, incarably insane, and prostitutes, (these are all kept separate), contains 1000 bede, which are generally well filled in winter ; in summer rather empty.

Kinder Hospital, for children of .ivm 1 to 12.
The professons of Clinical Medician in Berlin are Schoenlein, Wolff, Homberg and Traube. To Schoenlein there can be but one objectionthe difficuity of being understood. Laboring under cedema glottidis his voice is in consequence hoarse and guttural. His therapentics, however, are excellent. He has the largest medical practice in Prussia; has been the King's physicie- © © many years, and is held in high esteem by the profession. He seems to have an unconquerable dislike "to see his name in print." A few years ago, some of his assistants took short hand notes of his lectures and published them. They formed, when completes, hrge work, but S. bought ap all he could procure, and endearoned to weppress the remainder.
Traube devotes several hours a day to giving instruction in auscultation and percussion. He has written several papers con various subjectan; one in particular on "critical days," is very excellent.

Romberg has a wide-spread reputation for his treatment of nerwous affections. Arsenic in every variety of dose and preparation meands to be his favorite remedy. His work on diseases of the nervors aystatn, trapmtuedinanto English, is no doubt familiar to many.

Juenken (pronounced Yuenken) and Langenbeck are the professors of surgery; the former attached to the Charite, the latter to the University clinique in Ziegle Strasse. Muck praise cannot be bestowed on Juenken as a sencral surgeon. He had made the eye his particular stody, and, when considerably advanced in years, he was appointed to the chair of curgery. The result is, that although passable, he is not calculated to add lustre to the chair. As an ophthalmic surgeon, however, he is entitled to the highest praise. He operates with the greatest ease and dexterity, while his diagnosis scems almost infallible. Juenken has strenuously, and I fear unsuccessfully, endeavored, in a porbic discussion with Langenbeck, to show that death can never take place in any patient from the inhalation of chloroform in any quantity. It might be supposed that the loss of half a dozen patients in his hospital practice, when in a state of anasthesia, would lead him to think that chloroform was not perfectly harmle: - Yet thuse deaths have been attributed not to chloroform, but to shocis of the operation. It is unfortunate that a man should hold such views-as it causes him to pay less attention to his patient-to adminster it in unnecessarily large quantities, and to confide its administration to improper hands.*
But by far the mast attractive to the stranger is the surgical clinique: in Ziegel Strasse, where Langenbeck may be seen daily, with, generally. several cases for operation. The operating theatre, (a large, circular, well lighted room), is interesting, also, for its associations. "Twas here Von Graeffe, during a number of years, gave instructions, till death removed him from the scene of his great success. He died a milliouaire, by his profesion. 'Twas here hus world-renowned successor, Dieffer.bach held forth. 'Twas here, alas! he died. The sofa, on which he was seated, observing a stucent making an examination of a tumor, when he quietly and suddenly expired, is still here. The portraits of both are suspended in the roon. Dieffenbach's death was so sudden, and in the midst of such flourishing health, that the great mass of the people could not believe he was dead. A mirror was placed before his mouth, and in this way was closely watched by his assistants and several physicians for four days, but no sign of life was visible. The populace, however, st:d frully clinging to the hope that he roodd " come to"-nay, almoot believing in his infallibility, would not even yet allow him to be buried. They watched him five days more-when decomposition too plainly told them they need watoh no longer. When it was at last admitted that he

[^1]was dead-and their charge transferfed. to the undertaker-the feehings of the people were manifested in one universal outburst of grief. He was attended to his last resting-place by thousands-all testifying their sorrow by carrying wreaths of mourning (the usual manner in Germany of manifesting grief for departed friends) which they placed on and around the tomb. ${ }^{-}$

In no Clinique I have yet visited, have I seen so many operations as are here to be witnessed. The hospital is not large-but is entirely set apart for cases requiring operation. Persons residing in the city and neighbourhood are brought to be operated upon-aud taken back to their respective domiciles. The reputation of the operator draws to the capital pratsents from all-parts of Prussia and surrounding duchies. As a. lecturer and teacher, Langenbeck is considered superior to his predeces-. sors. As an operator-inferior in na respect-superior in many. His talent and genius, compared to Dieffenbach may be questioned-and it is not my intention to discuss the subject. He is moreover, as good a Physiologist as Surgeon-this is an advantage that cannot be called into question. Langenbeck is particularly distinguished for his heroic treatment of anchylosis of the knee and elbow. When a patient is admitted with anchylosis of either joint-whether of months or years durationhe or she (if in health) is put under the influence of chloroform-and when the muscles are in a state of relaxation-the callous is broken, by torcibly flexing the limb if extended-and extending if flexed. The inflammation, lit up, is almost invarinbly easily controlled.

When writing about medical affairs in this part of the Continent, it may not be ont of pluce to mention some of the most striking features that distinguish the Medical Police of Berlin-or Prussia generally-for the same wise and sulutary laws for sanitary regulations are applicable to the whole Prussian kingdom.

[^2]Berlin, the largest aity in Germany, contains nearly half a million of souls (including the garrison.) It is divided into a number of sections or wards-each of which, is attended by a Medical man-who receives a regolar salary for attending all the poor in his district. His prescriptiona are sent to an apothecary, who charger emedicine to the town. The poor are thus free of expense.

All tradesmen (blacksmiths, carpenters, de.,) in service are compelled to pay a small sum weekly for the support of their sick. This originated with themselves, but has now become compulsory. The tax is regulated according to their wages, and deducted from their weekly pay.
Beaides the physicians already mentioned, there are eight for the city of Berlin, whose duty it is to visit manufactories, gaols, worthonses, boarding schools, \&cc., to see that the inmates have comfortable apart ments and sleeping rooms, sufficient clothing, and food of a proper qr -lity, and in sufficient quantity; that they have their regular hours of recreation, and that they are not tasked either in work or study beyınd their strength.
There exists in Berlin a Hygienic Association, which numbers about 10,000 souls. Any person, by paying two groschens, (somewhat less tiun 2hd.) monthly, is entitled to medical advice during health, as to what he should eat, drink, \&cc., and attendance during illness.•

It is necessary to announce the birth of every child to the police, and to state whether born healthy or diseased. After some months it must be vaccinated. For this purpose there is an institution in every town, and at convenient distances in the countiy. Every man must serve three years as a soldier, and when enlisted, he is re-vaccinated. No person is employed in any service, civil or military, without a certificate of vaccination.

Every physician must announce to the police all the cases of cholera, small pox, epidemic dysentery, or supposed infectious disorder that occur in his practicc. Scarlatina and measles are excepted.

He is required to give to the parents or friends of those dead in his practice, the date of death, and disease of which he died. Every week is printed all the deaths and the diseases. The names of the deceased are published in connection with the church to which they belong.

I may here remark in conclusion, that the medical are in connection with, but over the town police.

[^3]I shall now occupy but a few lines in noticing the curriculum of the study of medi, ne in Prussia.
Before be: $\lrcorner \mathrm{g}$ gallowed to matriculate as students, they are compelled to undergo an examination in classics, Frenc., mathematics, history, and German literature. They have to write a thesis in Latin and German, on any subject which may be prescribed them : the principles of philosophy (logic and metaphysics) are also entered into. This pas', they are admitted to the university. They usually spend three years at a university, after which they commence the study of raedicine. Their stady must extend over a period of four years, or eight semestres (four of which in a Prussian University.) At the end of two years they are required to undergo an examination in physics, chemistry, botany, zoology, mineralogy, and some branches of philosophy. This examination is necessary to continue. The examiners are not connected with the medical faculty. The examination commences with a theme given by the Dean of Faculty, on any subject he may choose. When written, and if approved of, the Dean (who is commonly elected from among the professors) examines the cañidiate on medical subjects yenerally. If successful, each professor examines him in his particular department. This is called Rigorasum, but, in comparison with what is to follow, is not rigorous. He has then to write a thesis in Latin, on any subject he pleases, and print, at his own expense, a sufficient number of copies to enable him to send one to every university in Germany, and three to every professor and teacher in the university to which he belongs. This thesis is impugned, and must be defended against three adversaries, chosen by candidate. The debate, which is public, is conducted in Latin. This over, the title of M. D. is conferred.
But, to be enabled to practise a Stuats Examen or Cursus must be undergonc. This commences about 5 or S months after-but may be deferred as long as candidate wishes, and usualy lasts 5 or 6 months. In this Cursus the following branches are gone over: Anatomy, Surgery, Midwifery, Medicine. In Clinical Medicine and Surgery, candidate from time to time receives patients, and in presence of the Professors and Students, is required to make the diagnosis-offer a prognosis and prescribe treatment. He is then locked up, to write a complete historia morbi. In Midwifery candidate hasto examine several women, and tell the stage of preganacy. He must also make deliveries in presence of the Professars.
On the dead subject he is required to go through all the operations, ampatations, applications of ligatures, \&c., besides the elementary parts of Surgery such as bandaging, cupping \&c.

[^4]In anatomy the candidate is required to make a preparation of any part given him-and of any tissue.

The Stants Examen is eminently a practical one, and well fitted for a person about to enter practice. 'From beginning to end, is condncted by lottery. Candidate draws from among a number of others, a paper on which is written what is required of him. He draws in each branch separately.

Kirche Gasse, Berlin, February, 1853.

## REVIEWS AND BIBLIOGRAPHICAL NOTICES.

VIII.-The Action of Medicines in the System. By Frederice Whlum Headland, B.A., M.R.C.S., \&e. Pp. 560. Lindsay \& Blakiston, Philadelphia. B. Dawson, Montreal.
The advantages which would result from an intimate acquaintance with the action of medicines, are so transparent, that their recital need not detain us here. Like other mysteries in which man forms and takes part, the pursuit has proved bewildering during its progress, and unproftable at its termination. The adventurer, then, is entitled to admiration, who, undaunted by past fuilures, has sufficient curiosity and eierggy to pursue what has been to most of his predecessors a mere ignis fatuus. We must be understood to be speaking now, not of the knowledge of ultimate fucts, for this comes of skill and observition, but of the why and the wherefore of such facts-the secula scculorum-which have not been revcaled.

An inquiry into the action of medicires is beset with numerous difficulties, and unless these be removed, it will yield but little profit. The terms used in therapeutics are frequently vague; a single one has often several siguifications, and unless a clear comprenension exist of the sense in which it is used by a particular author, he will be read erroneously, and lead to egregious mistakes. Thus neurotic may mean either a medicine which ameliorates nervous disorders or one which has some entirely different curative tendency, but produces its effect by nervons agency; having dissimilar meawings, according as to whether the end attained or the course pursued be implied. The arrangement of medicines into classes, and the designation of these classes, is arbitrary, and althoagh conventional, is far from being conclusive or appropriate. We say, so and so are antispasmodic, and the theorist might believe all othera not included with them were without such virtue, while the trath-is, that very many of the rejected, under peculiar exigencies, can produce
the same result as those which have been retained. Spasms may own many sources as the emotions, inflammation, hyperæmia, anæmia, dental, gastric, intestinal, and uterine irritation $;$ and on the principle of removing the effect by taking away the canse, all that is necessary, is to single out the canse, and then apply with mathematical precision the "powtrariacontrariois opponenda" of Hipjocrates, when there will be found as all sufficient antispasmodic in the calmative, antiphlogistic, debilitant, tonic, lancet, emetic, cathartic, and emmenagogue respectively. It is true these are but relative means, and of limited utility, but it is more rational thas to manage disease than, haphazard, treat it with absoluie measures which often disappoint, and may be detrimental, for no medicine reckoned absolute, will invariably manifest its power. This is a view of the action of medicines not yet thoroughly unfolded, but we hope ere long to find it pourtrayed with ample justice.

Again, it is customary to indulge in exclusive ideas of the actions. of medicines, and commemorate them in too defined statements, which are bad, by concealing, in an apparent conclusiveness, the warping of judgment, and narrowing of truth, inse parably belonging to them. Thus mercury cures inflammation and robs the blood of its richness while moreover, it has thrcwn some persons into a cachexia-a species of spancemia - 30 that it is argued mercury is a deteriorator of the blood; but while this is true, it is also true that mercury, like a double-edged sword, cats efficiently in opposite directions. Mark out, in proof, the victim of syphilitic cachexia, as if, in the last extremity of a consumption, before whose progressive hectic and emaciation he is rapidly declining, involved in a state of disease which palls the apprehension and confounds belief. His blood cannot well be of poorer quality, and yet in its deteriorator lies his only hope of recovery. Mercury alone will restoro him to ruddy health, and do for him what lies in the power of neither tonic nor restorative. Can any one after this say it has a special, invariable, absoInte effect, and not take into account the circumstances of varying cases. This is one example, but fallacies of a like kind apply to other remedial agents-ex uno omnes disce.

The phenomena of nature are diversified, and each one exhibits several phases; thus arsenious acid may occasion death by an acute shcck to the nervous systom, or by chronic disorder of this same part, or by gastro-enteritis, or by an inflammatory condition of the whole system, or by a combination of all these elements. The phyaiological effects of the mame medicine are numerous, and trifold according as they depend upon its local, common remote, and specific remote actions. But we - ill not protract the discussion further. These remarks have been made, not in condemanation of the wrork before us, but in apology for its subject, we anly.meant to show the reed on which the author leant, and must say
we would have been rejoiced had it been strengthened by tincir finding some place in his production.

The Medical Society of London offered in 1852, the Fotbergillian gold medal for the best essay" on the mode in which therapentic agents, introduced into the stomach, prodice their pecnliar effects on the animal economy." Dr. Headland was the successful competitor, and for his present work was adjudged the prize.

The author commences by examining the varions classifications of medicines which have been projected by his predecessors, and as he firds none unoljectionable, declines adopting any; and in lien proposes the following classification of medicincs, which act, after entering into the blood, atecording to their supposed modes of operation. Class 1. Hxma-tica.-Div. 1. Restaurantia. Ordines. Alimenta, acida, alkalina, tonica, chalybeata et solventia. Div. 2. Cntalytica. Ordines. Antiphlogistica, antisyphilitica, antiscrofulosa, antiarthritica, antiscorbutica, antiperiodica, anticonvalsiva, and antisquamosa. Class II. Neurotrea.-Div. 1. Stir mulantia. Ordines. S. generalia et specifica. Div. 2. Narcotiea. Ordines. Inebriantia, somnifera, deliriantia. Div.3. Sedantia. Ordines. S. generalia et specifica. Class III. Astringentia.-Ordines. A. mineralia et vesetabilia Class IV. Eliminantia.-Ordines. Sialagoga, expectorantia, nathartica, cholagoga, diaphorctica, diuretica.

We agree with the author in his objections, as they are just and weighty, but we think his amendment is not much of an improvement on former classifications. Two very obvious exceptions may be taken to it, the one for its hypothetscal foundation, the other for its incongruous character. In realitr, every medicine by which health is recovered, is a restorative; but as a mere limited signification has been given to the term, we examine it accordingty, and certainly have to question the prove aty of associating together aliments and solvents, alkalies and chalybeates. Special sriatives assimilate ipecacuanha and digitalis; and reneral sedatives, hydrocyanic acid and colchicums ; bat for what reason we have not yet divined. His arrangement isalso incomplete. Emetics are wholly excluded from the orders, \&c., although many of them act through the blood, and even when applied to other absorbing surfaces than the gastric.

The author discusses his subject under the fothowing ten propositions: - I. That the great majority of medicines must obtain entry into the blood, or internal fluids cf the boty, before theiraction can be manifested. II. That the great majority of medicines are capable of solntion in the rastric or intestinal secretions, and pass without material change by a process of absorption, thrcigh the coats of the stomach and intestines, tor enter the capillaries of the portal system of veins. III. That those medicines which are completely insoluble in water, and in the gastris
and intestinal juices, cannot gain entrance into the circulation. IV. That some few remedial agents act locally on the mucous surface, either before absorption, or without being absorbed at all. That they are chieffy as follows :-a Irritant emetics: $b$ Stomach anæsthetics; $c$ irritant cathartics. V. That the medicine, when in the blood, must permeate the mass of the circulation, so far as may be required to reach the parts on which it tends to act. That there are two possible exceptions to this rule:-a The production of sensation or pain at a distant point ; $b$ The production of muscular contraction at a distant point. VI. That while in the blood, the medicine may induce changes, which in some cases may, in others may not, affeot its influence. That these changes may be- $a$ of combination; $b$ of reconsuruction; $c$ of decomposition. VII. That a first class of medicines, called homatics, act while in the blood which they influence. That their action is permanent. 1. That of these, some, called restoratives, act by supplying, or causing to be supplied, a material wanting, and may remain in the blood. 2. That others, called catalytics, act so as to counteract a morbid material or process; and must pass out of the body. VIII. That a second class of medicines, called neurotics, act by passing from the blood to the nerves or nervicentres, which they infuence. That they are transitory in action. 1. That of these, some, called stimulants, act so as to exalt nervous force, in general or in particular. 2. That others, called narcotics, act so as first to explt narvous force, and then to depress it, and have also a special influence on the intellectual part of the brain. 3. That others, again, called sedatives, act so as to depress neryous force, in general or in particular. IX. That a third class of medicines, called astringents, act by passing from the blood to muscular fibre, which they excite to counteraction. X. That a fourth class of medicines, called eliminatives, act by passing out of the blood through the glands, which they excite to the performance of their functions."

We regret that we are prevented by want of space from entering apon more than a cursory discussion of the demonstrations which follow. They contain a large number of interesting and valuable facts, selected from various sources, and arranged together in a satisfactory and advantageons manner. The author is largely indebted to Billing, Pereira, Thomson, Neligan, Ballard and Garrod. His extracts display much care as well as judgment, and those facts have only been retained, whose authenticity could be ascertained. In drawing inferences he has conformed to the strict requirements of logic, and in advancing hypotheses, cautions ns not to receive them as more than theories, which may or may not be trne. He has spared no pains in making his work both seductive and useful, and it speaks doudly in praise of his indnstry. We are glad to find him freguently tapping the organic radicles, and applying to the-
rapentics the chemical opinions of Liebig, Wholer and Jones. But we: think more originality might have been manifested, particularly in clinical observation and experimental inquiry, in both of which departments he is deficient, and has consequently shad but very little additional light upon the paths wherein the action of medicines lies. We have not found our objections to his classification at all remeved in the sabsequent exposition that follows. This will be found under the last four proposi-tions-here, for the most part, are gathered together his peculiar views, but which, even with the advantage of plansible assertion and ingenions dressing, are, for want of a substantial basis, not likely to be generally accepted. We believe, however, in failng to raise the vail which hides from haman ken, the why and the whesefore of the ultimate facts known concerning the action of medicines, it is, as we have said is our exordium, more the fanlt of the eause, than of its advocate.

In the event of a second edition appearing, we would have our author notice for exasure some blemishes which stain the present. Occasionally loose statements are made; in one part, iodine, bromine and sulphur, are called metals. Again, some of his therapeutical directions are rather hasty and premature, at 187th page, we are told antimony is far preferable to mercury, in the treatment of preamonis. Surely pneumosise occurring in debilitated persons, in those having structural changes of important organs, or in the form known as typhoid, have been overlooked, for in these, orthodox people prefer mexcary to autimony, and with some show of reason, also after the first stage, or the first and second stages of Stokes in ordizary pneumonia of sthenic character, and in good subjects mercury is more demanded than antimony, and comparative trials have attested its superionity. And lastly, the leauty of a prize essay by a B. A., is not adorned by grammatieal inelegancies such as, "Salts pass out of the body as they went in." "Terchlorid of gold much more seldom employed than Bieblorid of mercury." "Afer this it (iodine) come to be generally employed." "Chloride being constantly employed." "When given in repeated small doses." "Vaporous transpiration." Particularizing one man, he refers to him as other men.

## CLINICAL LECTURE.

Cliniond Lecture on a case of disease of the prostrate gland and Wiadder-By John Adams, Esq., F. R.C.S., and Surgeon to the London Howpital. (Condensed from the Lascet.)
G. P-r 26, was admitted for chronic cyatitis, the resalt of diseaned prontratio. He had been ill 2 years, and was in a Metropolitan hoopital for 6 months. He was then thought to have Psoas abscess, there being
a flncturating tumor beneath Poupart's ligament. The mora, rubafaciants and other counter irritants were pat on the loins, but without benefit. The abscess was afterwards opened, and he was discharged as cured about 12 months since.

Sympptoms on admission-Pains at the neck of the bladder, and over the pubes; micturition very frequent ; urine scalding, loaded with pros, and streaked with blood ; sometimes very dark and offensive, with a vary adhesive sediment. Treatment-Full diet with palliatives; urine being alfoline, bladder was injected with a solution of 1 drop of nauriatic acid to the ounce of water, which gave temporary relief; subsequenthy he had a lancinating pain in the loins particularly on the left side; urine mage bloody-continued thas for 12 or 13 weeks. Appetite very good the whole time. Various remedies were used, and about 8 weeks since, the mucous and bloody discharge disappeared, but he had acute pain in the right side and lower part of the abdomen writh diarrhcas and great fever -for the latter he was sent to the physician's ward and treated in the usual way. Sept. 28th, more than 3 months since admission, felt pair fid heat in perineum but did not complain of them till Oct. 1st, when on exkamination an abscess was found here and was at once incised, giving éxit to a large quantity of thin pus with a strong urinoous odour. Ordered ponltices of linseed meal : milk diet and chop: Exij wine : a pint of partoi. Part of the wine came throagh the opening. Oct. 7th, bladder very irritable. Barley water as a drink. Micturition very frequent, with gieat scalding. Given Liq. Potas, and Tr. Hyoscyam. with much relief. Iith, swelling on left side of scrotum and within the cord; the latter very hupd bat not red nor hot, complains of a throbbing pain in it with slight fotver, loss of appetite, \&ce., warm water dressing and a suspensory bandige12th, saline misture with 5 gtt . tr. opii every 4th hour in lieu of liq. pocis., this allayed the fever and caused sleep. 13th, soems easier and chieerful. 14th, scrotum finctuates, perineal opening closed. 15th, socond abseam burst and a lot of thick pus followed. Poultices to be applied. P Pulse aboat 100. 18th, resumed liq. potas. with tr. hyos. and mucilage. Suffers greatly from lancinating pains through the lower part of the abdomen. Pulse very frequent bat weak. 25th, complained of very acnte pain it the neck of the bladder-to use every night a suppository of soap with 5 grs. pil. opii et saponis, which gave relief. 26th, cannot eet chop, stroag broth substituted. 27 th, bowels confined. Given 3 ij castor oil, whick did not operate until the doee was repeated. 28th, seems to zuffer lesm, but is much weaker and he gradually sank and died Nov. 1st.

Autopsy. Nov. 2nd.-Peritonæum inflamed, recent lymph on itesurface abdominal viscera healthy, abscess on the right side of the pelvis, whind seemed to have burrowed inta the peritonmum under the famia, from an opening in the left side of the bladder. Prostrate gland entirely cappurated away ; bladder very thick, internal surfice nleerated anid gangrencas with sinuser passing through it. Ureters very much diatad, partioularly the left, and contained cheery matter; left fidney nodulated axtermally; suprare nal caproule thickened and indurated, and when cut into the Kidney, contai red similar cheesy matter. Pus in left testicle; right fite ney and teatia natural ; cheat not opened.

Ganturncra. This cepe in introduced to you becanse of the obingurity of the aymptom and of its great importance. In refrompeot there ato mot gy. circumptancea or great intareat to which I wish to call your attemitin?
but the case throughout was obscure and the symptoms eqnivocal. On admission, he bad a train of symptoms indicative of great constitutional disturbance with excessive imtation of the arinary system and it was difficult to unravel the cause of his intense sufferings. Most of his symptoms arose from the state of the bladder; thus he had frequent and urgent desire to pass urine, painful micturition, and increase of pain after the evacuation of the bladder. Urine was passed in small quantities and either bloody or with a dischara of soapy mucus which soon sabsided and occasional pus as proved microscopically. Urine very offensive at least after standing a short time, and it gave decided evidence of alkalinity. With these, was pain in the loins and in the groins, and sabsequently a urinary abscess formed in the perinæum, through which pas and urine, mixed with the mucus of the bladder, passed. Then came an abscess in the scrotum which discharged and got well. During the progress of the case, which I regret to say, was from bad to worse, the man gradually emaciated and eventually sunk, dissolution being preceded by pain in the abdomen indicative of low peritonitis. Such is a brief review, I wish you to remember the signs while I tell you my reasons for believing that the case was all along one of scrofulous abscess in the prostrate and first of the most prominent-excessive irritation of the bladder, dc. This might be due to stone in the bladder, but none was detected by the sound ; this was one point gained, for it is very important to find out what a disease is mot if you cannot find out what it is. As there was no stone, and as there was great pain passing the instrument over the prostrate, I concluded this part was the seat of abscess most likely scrofulous, and this impression was coufirmed by the progress of the case. I was further strengthened in this view by the recollection of a like case which occurred to me some time since. I was called to a gentleman with a swollen testis and excessive urinary irritation. One surgeon called it hydrocele, another stone, bat the sound detected no stone, and I referred it to scrofulous abscess in the prostrate. He died, worn out like our unfortanate patient, and the post mortem revealed the accuracy of ruy view. In our present case, the signs of this disease are unquestionably equivocal, and that similar symptoms may be due to other causes than the one in question, nay that nearly all the symptoms may be present and no disease exist at the neck of the bladder, for excessive irritation of the bladder, with pain in micturition, bloody and even purulent urine, may result from disease of the kidneys, and some of these may be due to acia arine. A scrofulous prostrate is rare, and is met with usually where tuberculosis prevails throughout the urinary and genital system. In my article on the "Prostrate," in the Cyclopadia of Anatomy, are a few cases from different authorities; in one, there were as many as 30 small abscesses, and as many crade tubercles in the prostrate; the case is by Lallemand. We have no signs to tell the disease before the tubercles have softened and sappurated, and therefore, it is useless to speak of the treatment in the early stage, and even in the adranced, as in our case palliation to lull pain and means to sustaii the general health are alone calculated to benefit. Here, however, various medicines were tried, but when the case was fairly made out, the latter solely were employed.

The post mortem is interesting as exemplifying an noncommon termin. ation; thus you perceive that the immediate cause of death was perito. nitis from the bursting of an abscess in the perineum through the perito:
næum. In the last vol. of the Medico-Chirurgical Transactions is a case of large abscess of the vesicula seminales which made its wisy into the peritonæum thus producing death by inducing subacute reritonitis and to a certain extent, there is an analogy between it and the present.

## THERAPEUTICAI RECORD.

(British and Foreign Med. Chir. Reviev-July, 1853.)
Ascites.-Dr. Falcot recommends, in cases of ascites, when the stomach is irritable, fomentations with decoction of digitalis. Two ounces of digitalis are boiled in a quart of water down to a pint, and compresses dipped in the decoction are laid on the akdomen, and covered with ciled silk. The kidneys are soon poscerfully affected.

Chlorosis.-Dr. Aran has found that by the employment of dry and scimulant frictions, aided by good regimen, and in some cases by wine lavements, these obstinate cases may be very satisfactorily treated, when iron has failed. Either flannel or a brush may be used, and occasionally a stimulating fluid, such as spirit of camphor, or some ammoniacal preparation, may be added so as to induce rubefaction. The frictions shonld be continned for five or ten minutes, every night and morning, being chiefly directed along the back and limbs. In a few days a marked modification of all the functions is produced. In some in which progress is not so rapid, vinons enemata are of great service.
Croup.-M. Troussean speaks most highly of the empioyment of sulphate of copper as an emetic in croup, as recommended by Beringnier. The efforts which it induces often detach the false membranes, this emetic, seeming to act less on the stomach than pharyax, while it does not deraage the digestive organs, as antimony sometimes does. Vomiting occurs very soon, and is repeated at very short intervals, three or four times; and in three or four hours, the medicine may be again given. Mr. Beringnier, gives from 2 to 3 grains; but M. Tronsseau gives as mach as 10 grains, divided into two doses.
$D_{y s e n t e r y .-M . ~ D e l i o u s ~ e m p l o y s i n ~ c h r o n i c ~ d y s e n t e r y ~ a n ~ e n e m a ~ c o m p o s-~}^{\text {a }}$ ed of tincture of iodine 3 ii to 3 iii, iodide of potassium 15 to 30 grains, and water $\jmath^{2}$ vi to $\xi$ viii. An emollient lavement is first administered to clecr the intestines, and the iodine is then at once thrown up. Occasionally it causes slight colic, which can be prevented by opiate injectionof 12 cases mentioned, 10 were cured ; 2 went away unafferted. A great part of the iodine is absorbed and appears in the urine. Liscer has already recommended the use of iodine injecticus in acute dysentery.
Gonorrhcea.-M. Alquie speaks in the highest terms of the great utility of the tannate of zinc ( 1 part to 100 of water) injection, empioyed night und morning, in gonorrhasa, after the acate symptoms have subsided.
Perypirations nocturnal.-M. Delioux has employed the tannate of quimine, in doses of 6 to 8 grains daily, in the sweats of phthisis, and in other diecases attended with diaphoresis. Pure tannin, appeared in some cases to be even more powerful than the tannate of quinine.
Phichisis.-Bonorden has employed for the last five years, sulphate of
mase in phthisis, in the following way: He dissolves $3 i$ in $3 i$ of water, and gives $m \times x$ to $x \times x$ every two hours; the palse becomes slower, the teraperature falls, and the hectic faver lessens, the physical signs improve. If in 10 day: no improvement occurs, the strength of the solation is increased to 3 in in $\mathbf{z i}^{2}$. If any uneasy sensation is felt in the stomach the medicine is discontinued for a few days.

Rubeola.-Dr. Falz has employed, after the manner of Schneeman, frictions with fat, in 343 cases of measles, 57 of which were severe; all were cured very speedily. In 30 of these cases, the patients were tuberculous, and the progress of phthisis wors artested.

Scarlatina.-Dr. Walz, has treated in the same way 74 patients with scarlatina.

Foetus in utero killed by lightring.-Dr. Carithers of Hendricksville, states that Mrs F months advanced in pregnancy, received on the 10 th of June, 1852, a severe shock from a streak of lightning, from which she recovered in $\varepsilon_{\text {. }}$ few hours-when she was attacked with labor pains which caused me to be sent for. On my arrival, I found her suffering with sharp pains. On examination, per vaginam, no dilation of the os uteri had taken place.Bled her freely, and ordered her an enema of a gill of starch, with a teaspoonful of laudanum, and to take $\frac{1}{6}$ of a gr. of sulph. morphine every. half hour, until she was relieved from pain. After taking the fourth dowe the pain subsided. Ordered her to take on the following morning ol. ricint 5 i . At 2 P. M., oil acted freely on the bowels, and at 4 P. M. I fonsd her resting well. Allowed some light nourishment, from that time untiz. sho was delivered, which took place on the tenth day after she complain-. ed of being very unwell. The child was dead, and from the appearance, had been so from the time the mother felt the shock-Southern Medicar and Surgioni Journal.

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hICET OMNLBU日, LICET NOBIS DIGKTATEM ARTIS MEDICE TUERE.

## REGISTBATION OF THE CAUSES OF DEATH.

In a recent article we mentioned that, owing to the want of a completent system of registration in the Province, it was impomible to obtain returst of the mortality of individual diseaser. Marrigges, births and deathes it in true, are carefully recorded, and the records deposited in the prothonotaryent office. So far good. These records are unquetionably of vital importing ance to the interests of society. Inertricable confusion in our social systen笣 would inevitably reanlt did not arch registration exist, or were it sumend ed for any time. But in so far as the columns of the Register are capable of adding to medical knowledge, and thus adrancing the science of meft dicine, they are comparatively of alight value. From them, the med, cal enquirer into the vital statistics of the cuontry may learn the mation dix
births to deaths-the proportion of deaths at different ages-the expectation of life at different ages, and the average rate of mortality in various parts of, and throughont the Province. All questions bowever, relating to the prevalence of particular diseases in certain districts-to the effects of any epidemic which may have visited the country, or its comparative violence and mildness in different localities-to the inftuence on the mortality of disease of physical causes, such as nature of soil, state of cultivation, elevation above the level of the sea, thermometric and hygranetric conditions of the atmosphere, dec.,-questions, the solution of which would have a tendency to vastly improve his acquaintance with the natural history of disease, are shut out from his investigation. And, if the homely adage be true, which all experierce indeed proves it to be, that " one ounce of prevention is worth a pound of cure," the public genemilly are the losers by this limitation of the reseurches of the physician. For if it be out of his power to ascertain what disease or what particonlar clumes of disease are endemic to the country ; and if he cannot trace the progress and ravages of all epidemics, it is clearly impossible for him to advise the anthorities or the populace what measures to adopt, and where measures should be adopted, to diminish the prevalence of the one, and to atay the progress and reduce the mortality of the other.
There is only one way in which this imperfection in our present sysrem of registration can be remedied, and that is, by introducing a column in the Register books for the purpose of enregistering the causes of death. Shis improvement in registration was introduced into England by the praing of the amendment act of registration of 1 Vic. cap. 22 , and has been found, as was expected, of the highest importance in throwing light so various matters relating to hygiene and medical police. Information, mreover, has been obtained from this column of the Regintrar General's Heports, regarding the prevalence of epidemics, which has determined migilative action. Witness, for instance, the recently pasted act to case general vaccination by compulsory measures.
We should like to nee this subject brought up and discusmed at the next meoting of the College of Physicians and Surgeons of Canada EantThis body, although in existence for five years, han not, as yet, effected mach for the advancement of the science of medicine. A singular fact, wilen we consider that the elite of the profemion of Lower Canada-the mar of ability, learnmg and experience are included among its members. Hithey would but agitate questions, zuch as the ane we have thus briedly shrested to, of general interest to the profession of Canada, and indeed af the wortd, and endeavour by memorialization, or otherwise, to draw EMattention of the Legislature to the importance of such subjecta, they Froudd deserve well of their professional brethren, and attain a status wimaty modical asociations, which, at present, they do not occupy.

## DR. MARSHALL HALL.

This distinguished physician, who has during the last six monthd visited many of the cities of the American Union, arrived in this city a the 11 th altimo and left it again on the 17 th. He had previously speat some days with his professional friends in Toronto and Quebec. During his residence here, all the leading practitioners of the place, and a few from the vicinity, called upon him, and were much pleased with him urbanity of manner, easy address, and readiness to communicate a subjects which have engaged his attention during a long and active life On the evening of the 15 th, he performed a number of experiment, which will be published in our October number, in the rooms of the Natural History Society before a highly respectable audience; and, on the succeeding evening, delivered a lecture at a conversazione beld in the same rooms. At the close of the lecture, Prof. Holmes, who wa deputed by the members of the medical profession present, addressed Dh Hall as follows:-In my own name, and on behalf of my professional trethren now present, I would express to you, Sir, the gratification we all feel by the presence amongst us of one who has earned for himself, by his painstaking researches and successful investigations into the physiology of the nervous system, an enduring pirce in the annals of ore noble profession. For the opportunity to make your aequaintance, which you have afforded us in this visit ; for the interesting experiments whick you have performed in our presence, and for the highly instructiva lecture delivered this evening, you have our sincere thanks. We shal ever recal the circumstances of your visit with feelings of pleasure; and we trust, that in the reminiscences of your tour through America, that $\alpha$ your sojourn in Montreal may not be among the least pleasing.

Major Lachlan, President of the Natural History Society, then cam forward, and, presenting Dr. Hall with the honorary degree of the society, said:-I have much pleasare in being deputed by the members? of the Natural History Society of Montreal to present you with the diploma of honorary member of that society,-voted by acclamation at their last meeting, -as a mark of their estimation of your weillearned high professional character, as well as of your valuable contributions ti science generally, and in the hope that that document will occasionally serve as an additional agreeable memorandum of your visit to Montreati)

Dr. Marshall Hall replied :-1 thank yon, Prof. Holmes, and the gee tlemen here present, and especially the gallant President of the Naturdy History Sociely of Montreal, for the kirdness and the honour done med this day. My.chief desire is to deserte well of my profession, and th live in the esteam of my professional brethren; and every proof that the deaire has been attained, is a source of extreme gratification to me. .e mas well, therefore, be pleased with the events of this evening. 筞
thank you sincercly, gentlemen, for the sordial manner in which you have welcomed my presence amongst you, and beg to assure you, that when the ocean again divides us, my visit tr. Montreal will be remembered with peculiar pleasure and pride.

The company then separated into gronps, and animated conversations on various suljects of professional and literary interest were kept up antil a late hour.

## COLLEGE OF PHYSICLANS AND SURGEONS, C.E.

In the account of the proceedings of the triennial meeting of the CoIlege, published in our last issue, the names of three of the governors elected for the city of Quebec were inadvertently omitted. We can assure Drs. Jackson, Robitalle, and R. H. Russell, the tbree gentlemen in question, that this inaccuracy in the Report has caused us not a little annoyance. We thus promptly make such amends as is in our power.
Governors for the City of Quebec :-Drs. Mofin, Fremont, Marsden, Sewell, Landry, Jackson, Rolitaille, and R. H. Russell.

Abdominal Galvanic Supporter.-We have received this instrament from the manufacturers, Messrs. Seymour \& Co. Want of space prevents us from noticing it at more length in this number.

## TO CORRESPONDENTS.

Dr. Watt, Paris.-We regret the delay, the fault lies with some one in the post route, for the last number was mailed even earlier than the preceding ones. Our practice is to mail the numbers to our subscribers, out of Montreal, on the 1st or 2xd of the month. Dr. Laing, Amherstburg. We hope his able pen will often be taken up to add to our original communi-cations.-Dr. F. Citmeron.-We thank him for his interesting cases-the presage, we trust, of future ones-with others they have been postponed to our next for want of space. Dr. A. Fortier.-The alteration made as desired. Dr. Evans, Richmond.-The apparatus can only be obtained here by ordering it to be made. It can be made by any iron worker and saddler under Dr. E.'s superintendence. Any contribution from so ablea hand will be esteemed. Dr. Murray, L'Orignal.- Has not escaped our recollection, and we will be happy to renew the friendship of days gone by.

Books received for Revievo.-Headiand on the action of Medicines, Lindsay \& Blakiston, 1853. Henle's General Pathology, Lindsay \& Blakiston, 1853. Meigy on the Diseases of Children. Second edition. Lindsay \& Blakiston, 1853. Dr. Hamilton's Fracture Tables. Dr. Har milton's Address, (from the author.)
Quaqtarly Report of the Montreal General Hospital, from 1st May

| Remainigg from last Quarter........ 50 | Discharged cured. . . . . . . . . . . . . . . . . . 288 |
| :---: | :---: |
| Admitted........................... 301 | Died. . . . . . . . . . . . . . . . . . . . . . . . . . 12 it |


| Admitted........................... 301 | Died.................................. 12 |
| :---: | :---: |
|  | Remaining. . . . . . . . . . . . . . . . . . . . . . . . 7 |




[^5] wes admitted on the last or some previous quarter.
Number of Operations, with Fractures and Dislocations treated during the Quarter.
Ampatation of Leg, ..... 1
of the Fore Arm, ..... 1
Removal of Metacarpal Bone of middle Finger, ..... 1
.... .. Phalanges, ..... 3

- Nasal Polypi, ..... 1
Operation for Talipes Varus, ..... 1
1
Fractures treated Intern, ..... 6
Dislocations reduced, ..... 3Minor Operations.
Abscesses opened, \&c. ..... 29
Cappiag, ..... 1
Setons introduced, ..... 1
Teeth extracted, ..... 54
Vaccinated, ..... 6
91
attending Physicians ..................Dts. Fraser and Sutherland. John Reddy, M.D., House Physician and Surgeon.

Mortaly Returx of Sick in the Marine and Emigrant Hoapital, from the 3rd July to the 30th Jaly, 1853, inclusive.

| Description. |  |  | E | 宮 | -80 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Men, | 94 | 132 | 226 | 159 | 6 | 61 |
| Women, | 22 | 23 | 45 | 29 | 1 | 15 |
| Children,................... | 2 | 6 | 8 | 4 | 2 | 2 |
| Total,. . . ........... | 118 | 161 | 279 | 192 | 9 | 78 |
| C. E. Lemmux, House Surgeon, Marine and Emigrant Hosp. |  |  |  |  |  |  |

Owr Exchanges.-In addition to those meationed in our last number, 'wo have received Philadelphia Medical examiner (three numbers); Philadalphia Medical and Surgical Journal ; New Hampshire Journal of Mecine; Iowa Medical Journal ; Peninsular Medicai Journal ; and the LonTon Pharmaceutical Journal and Transactions.

## MEDICAL NEWS.

The Pemaie Medical College of Pennsylvenia will commence its next course of lecte on the lat of October. Its faculty consists of 5 male and 2 female protessons, the latter gularly graduated physicians as well as the former, while the demonstrator of Anauomer also an able fernale physician.-The Dublin University Commissionera bave submitte Her Majesty "a that the provisions of the School of Physic Act, by which Roman Catho are excluced from the Professorships of Anatomy, Ehemistry and Botany shoutd be rep ed. That the provisions of this Act, with respect to Clinical Education, the election of King's Professors, ard the distribution of the funds of Sir Patrick Dun's estate, shoul reconsitered."-H. R. H. Pnnce Aibert had consented to lay the foundation stone of New Medical Benevolent College, at Epsom, on Wednesday, 0th July.-The Queea appointed Mr. James Begbe to be Physician in Ordinary to Her Majosty, in Scotland, to the 11th June, 230 men under carvass on Cattenham Hill, part of the Chobimm Enea ment, were without a surgeon, or even one within four miles, contrary to the (wueen's re lation, which provides that wherever a body of men amounting to 200 is encamped, a $\mathbb{S}$ geon or Ascistant Sargeon, belonging to the commanding officer's corps, shall be in atte ance.-Dr. E. R. Sanborn, of Lowel, has recently been appointed professor of Surgical thology and Microscopy, in the Berishire Medical Institute at Pittsfield, Mass, and appropriation of $\$ 10,060 \mathrm{by}$ the State for the benefit of the institution, on condition the like amount be raised by subscription for the same parpose, has leen met by individe who have subscribed the required ameunt--Towarde the Jenner Monemert, Ament has contributed f.33912s8d; Sweden and Norway, 183 10s 4d; Russia, f100; Other; tions, $£ 2411 \mathrm{~s}$; Great Rritain and Ireland, $\mathrm{f} 153 \mathrm{2s} 5 \mathrm{~d}$.-It is extimated that mare 500,000 Chinese die every gear a horrible death from the use of opium, while 5,$000 ; 0$ Chinese are yearly degraded and demoralized by it.-Layard says, that Dr. Sandwith he ung that the Arabs had no opiates, asked what they did with one who could not sleep. "D. answered the Sheith, "why, we make use of him, and set him to watch the camels. Mr. Wilson, of Flushing, L. I., has recently recovered a verdict of $\$ 2,500$ in the Ki , County Circuit Court, against a Dr. Snell, for Malpractice in treating the arm of the PLi tuf's son, which was fractured at the ellow by a fall. -The human voice has been hee - ecross the Straits of Gibraltar a distance of ten miles. Thic only happens in peculiar ath of the weather. The sound of a miltary band has been heard 70 miles on a clear fre, marming.-How to get rid of a Patient toho vever pays.-"Hum! So you don'r feel better aiter the pill and draught, eh ? That's had! We must try a more energetic cove of remedies, then. Come in this afternoon, and we'll take 15 oz. of blood from you, a blister on the pit of your stomach, a mustand naister on your back, then electrify, shave your head, and administer a dose of Croton Oil. That may prove efficacious s" patient kept away. - Cases of cholera occasionally appear in Southern ports.-Miss Ck loltc Adaros, of Boston and 8 other ladies, have just received the title of M.D. from Female Medicul College of Pennsylvania.- A woman, who was born at Lyons, died on 15th of May, at the age of 140 years. Two years more would have carried her to the of the Countess of Desmond, who died in Ireland at 142.Edward Cranson, the Kend siant, said to be the largest boned man in Europe, measures 7 feet 6 inches, Weight stone, can reach perpendicularly 10 feet 6 inches, and is under 21 years of age.-Smally has been destroying the Cheyenne and Saake Indians near Utah, the Mormon City, dreadful extent. On one occarion they piled up the bodies of 300 victims to the malady, burned them.-The Boaton Medical and Surgical Journal askas, "What has become of hundreds of itinerant professors of animul magnetism with which the country was doe, a year since."-Dr. Alexander Mayer, of Paris, announces a great digcovery, heating ${ }^{2}$, ers, cooking, \&ec., by means of friction instead of fuel.-Dra. Mott, of New York, and Yis ren of Botion, have been elected members of the Academie de Medecine of Paris.aeeda ot celery and parsley have been shown to have a decided inftuence over malar: tevers, although their operation is not equal to quinine.-It is computed that no less if $4 \cdot k$. it all afts aud bola sexes of the Indians at Nevada, have been destroyed by small: whu:its the past aix months, being one-tenth of the whole number. They are totally hoete, when thus attacked.-Dr. Corbett has discovered that the drones ampng bees are the males-Mrs Blanchard of Ticonderoga, 78 years of age, has cut a new set of teeth, ${ }^{3 /}$. the Dental Newa Letter.-Dr. J. M. Todd, of Monongahela city relates that a new me. of booe has been reprotuced, in place of a piece taken away by a surgical operations boy's jaw, and that new teeth are being developed from the new bobe.


[^0]:    * These remarise apply only to studente of medicine. On thometatedying divinity, eith, law, lec, were placed no reatriclion.

[^1]:    - On the 6th January, I was present at an operation-Extirpatio bulbi for melanotis. When the eye had been completely removed, it was obeerved that the patient, (a woman of about 58 yoers of age), did not breathe. Electricity, rempiration, \&ce., were resorted tobut to no purpos. This death, like the preceding, was attributed to shock to the nervors aytem, and would, be said, have taken place, even if chiocoform head not been adraisiterad:

[^2]:    - Considerable allowance, must, of conrse, be made, for the natural enthusiasm of the Gierman character. It is more than probable, that, had Dieffenbach lived in any other country, his death, even under the same extroordinary circumstances, would have beell nonatlendel with any surf public demonstration. Be that as it may, the Germans tale a greater interest in their great ones than do those of other countries. The rich are here, not so muckr removed from the poor-there is not the same impassable barrier betwern ibem-for education places ail on greater equality. Interchange of thought and opinion is more trequent, and the estimate formed of those who have raised themselves to eminence, must consequently be mare correct. This cannot but be apparent to those who visit Germany. The opinions that may be heard expressed at the road-side cottage-or inn of come obscure village, concerning thowe who occupy eminent positions in Medicine and Sargery (though perhape bowdrode of miles distant) are remartable for their jurnesa and precision. Nor are they corried. away by the reputation of the person-for when speaking of the superior attainmente of theparty in question-they at the satne fime do not fail to nrention his deficiencien. Their remark, in fine, woold frequently do credit to a professed critic-plus charity-

[^3]:    - Siace rriting the above, I have leamed that thin mocie'y has been dimsolved by the police. It was discovered that the so-called Hygienic Association, were organized for the parpowe of applying hygienic principies to government, and chose this manner of visiting each othar an the leat likely to excite suspicion. Some of the visiting physicinns and ringleders have been arrested, and pepers and other articles of a treasonable nature have beea poand in their pomexion, which, it is generally believed will lead to the conviction of many.

[^4]:    - 'There are 24 Universities, where the German language is the medium of instruction

[^5]:    Wherever a death appears with a "stan" aftixed it in intended so show that the indivedish

