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## MEDICAL CHRONICLE.

Fol. VI.]
DECEMBER, 1858.
[No. Y.

## ORLGINAL COMMUNICATIONS.

ART. XIV.-A Case of Storno-omphalopage. By Joan Reddr, M. D., L.R.C.S.I, Pbysician to.the Montreal General Hoapital, da.

The following singular case may not prove oninteresting to your readers :-

On the 29th August, 1858, I was sent for to see a woman whom I was told bad been some hours in labor. On my arrival at $8 \downarrow$ P.M, I wee informed that it was her tenih labor; that she had been deliverod of deven children in the previous confinements, having had twins the firet and third times. The midwife gave me the following account:- $\Delta t$ 4 4 P.M, when she was sent for, the labor-pains had commenced, they continued very regularls, and the on ateri dilated to about the size of a half crown. At 6 o'slock P.M. dilatation was comploted, and tho hend begen to deccend. It paseed the os externum about $7 \frac{1}{3}$ 'alock, and, although the pains were very frequent and atrong, at the and of an hour there was no further advance; and, perceiving that every effort to aid the delivery was unavailing, she determined upon ceeking malatadoes

On examination I found the head fully protruded, fice awollea, amd of a dart livid color; life munt hare been oxtinct for some time, and the lebor-pains were naither frequont nor atrong. Haring employed trootion movaral timen daring the presnce of pain, I fornd that it had Do octher offeet than cansing about an inch of the neak to adrance. At fint

I was under the impression that the difficulty might be owing to an abnormal width of the shoulders; but, on examining, I felt a hand on each sidie of the sternal end of the neck. Without any difficalty I brought the arms down, which caused the neck to adrance as far as the sternum ; and, while making a further effort to extract, a second pair of hands protrudod. I immediately re-examined, and discovered that a second child was presenting, and apparently connected with that alrcady delivered. I now procured the assistance of my friend Dr. Sutherland, who, on examination, coincided with me in the opinion I had formed. For some time considerable difficulty was encountered in our attempts to deliver. The blunt hook was ased and proved ineflicient. Eventually however, by digisal efforts, we succeeded in bringing down the legs of the first child, which were immediately followed by the body; the face towards pubis at once revealing the $10^{\circ}$ at of union. It now remained to bring dewn the secend feetas, which was also attended with
difficults. The legs wers not within reach, but the fore fingers conld be made to touch across the back, which was arched forwards. Pelivery was accomplished with the aid of a silk handkerchief which was passod round the back, so as to form a loop round the body of the cbild, whereby I was enabled to exert the requisite traction until ex uraction was terminated. The body came away feet foremost, accompa nioc by the placenta. There was only one placenta, it was of immense sisa, kidney-shaped, and at least twice the natural thickness.

There was but one cord; it was not quite half an inch in length and was more than twice che usual thickness, hardly appearing to leave any inferval between the umbilicus and placenta.

Eiftrinal Framinaticx. - This double monster presents the following apposrances:-Development seems to be comparatively perfect in one fretue, while in the other it is deficient in several particuiars. For convenience of description I shall designato the more perfectly formed of the two as feetus $\mathbf{A}$, the other as B.
A. The head, neck, shoulders and arms are natural ; the spine, pelvis, and legs normal, with the exception of the right foot, which was clubbitd (Talipes rarus); external genital organs complete.
B. The head slightly sualler than A; shoulders and arms natural; the spine deficient from about the middle of the dorsal regiou down to mana, presenting a large tumor measuring transversely 41 inches, filled with fluid (Hydro-rachitis); the legs nearly natural in shape, except that both feet wers clubbed (Talipes varus); generative organs merely rudimentary.
$A$ is 15 inches in length ; the circomference of head 13 inches $B$ is 14 inches in length, and measures not quite $12 \frac{1}{1}$ inches around the head.

The union between the two consmenced at about the second lone of the sternum, and terminated at the ambilicus, measuring $E \frac{1}{2}$ inches in circumierenct, and 2 inches in width. The annered wood-cat will convey $R$ very fair representation of this singular apecimen of homanity.


Intranat'Examtintion.-The following appearances weteascertained: -The thoracio cavities were perfect and distinct, with a diaphragm in each, no arterial communication existing. The stomachs were regular in chape, euch terminating in a duodenum, which latter became fused at the entrance of the ductus commanis choledochus; the canal thus formed was continued for a distance of about ten inches, when it became langely dilated, forming a sac of about two inches in diauneter, which connected with the anus of foetas $B$ by a short tabe of an inch and $a$ half in length. From this sec the small intestine of foetus $A$ branched off, was contiuued a dirtance of 9 or 10 incbees and terminsted in a perfect caput ccecum ooli; the large intestines of A then parsued the usual conrme, and were. Alled with meconium. B had no large intestine, with the exception of the seo and tube mentioned above.

The livers of both were distinct, bat joined by a membrane of areolar tiesue at the mecian line. They and the stornache, with a portion of the intenting, were located in the connecting band.

Dr. Cruit is engeged in matring a preparation of them for the Museum of the Medical Deprertment of the University of MeGill College, to which
 axtion of the ictotial piequat

For some time after delivary the patient appeared to be doing well ; the uterns contracted firnily; there was no hemorrhage, veither internal nor external ; and everything seemed to promise that a favorable recovery might be expected. Owing, hnwever, to her having become accidentally aware of the nature of what had occurred, ehe appeared to receive a severe mental abock, which prostrated her $;$ and, at the termination of two and a half hours, she was seized with armptoms of syncope, and died in about half an hour. Of tims unhappy termination I was the next morning i. formec; for no intimation of the woman's danger had been given me.

Montre.i. November, 1858.

ART. N".-Mlastrations of the Efficacy of Dr. Kerr's new remedy for Dysentery. By Thos. F.S. Brown, M.D, Rerlin, C. W.
Having in a very sevore attark of dysentery experienced the great saperiority oía rensedy recently introduced by Dr. Kerr of Galt (Calcatta Medical Journal), I deem it my duty to the author and the public to make known the facts of the case.

In August last I was seized with dysentery (it being epidemic in this town). The uqual remedies were promptly and skilfully administered; although the quantity of opium (or some of its preparations), combined with judicious doses of mercury, and occasionally acetate of laad, not forget ting ipecac, speedily rose to an equivalent of 21 or even 24 gre. daily,-no amendment took place. I vomited incessantly, ank. though tormented with thirst, could retain no fluid. In my case, the effect of large doses of opium was prostrating and overpowering, (whatever it may be in the case of others.) I did not sleep at all, but I could scarcely be said to be awake, except to the consciuusness of severe pain and frequent calls to rise, agonizing tenesmus, and still frequent pomiting. I had been 10 days ill, and chough assiduously and skilfully attended by my friend Dr. Bingham, and was once visited in consultation by a phgsician of acknowledged standing from Hamilton, nature wrs sinking, collapse was to be feared, when Dr. Kerr visited me. He immedistely, with Dr, Bingham's sanction, gave me 31 grs , of the following combination Equal parts by weight of

| One of the Scrophulariaceae. . . . . . . . . Digitalis Parpurea. |  |  |
| :---: | :---: | :---: |
| Tซ๐ " | Solanaceso.. | .. Solanum Dulcamara |
|  |  | Datara Stramonium. |
| Three " | Umbellifore | . Sium Linoara. |
|  |  | . Oicota Macolata |
|  |  | Oonionclinam Oanadenso. |
| One | Pap | Opl |

I confess my incredulity at the time of any superiority of thin medicine over those I had taken previously.

I was very restlews from a sensation of sinking and severe pain; the stomach, however, for 12 hours previously had been less irritable. In half an hour, after dozing a few minutes, I became suddenly aware of a great change, I could lie quiet, the distressing tenesmus was less, pain in body and limbs less gevere, the sensation of sinking was reliered, a glow of warmth was supplanting the cold of threatened collapse, and an inclination io sleep, not experienced before during my ilhess, was stealing orer me. The first thought was amazemert at the change, then a faint recollection of a new medicine crossed my miud, and I resigned myself to its influence. I was immediately asleep, and for an hour and a.half had a comfurtable and refreshing sleep, unaccompanied, comparatively speaking, with the sensorial disturbance so constant a result of opiam and other prepsations in my case. When I awoke every symptom was relieved. Seven grains were given once in six hours (being one grain of each) or one grain of opium instead of four or six in the same sp.ce of time. I spent the first 24 hours almost wholly in sleep. Calls to rise were still frequunt, but the tenesmus less seyere, and though I retihed a few times, vomiting ceased. In 8 few days appetite began to return, but haring for six or seven years laboured under dyapeptic attacks, nearly, but not strictly periodical, of a severe and intractable form, I thought possibly owing to this circumstance the stools continued more frequent than I conld have wished. A few grs. Acct. Plumbi, in aidition wo Dr. Kerr's remedies, soon set all right in that respect. I may state that befre trying the last addition I increased the frequenc., of Dr. K's, medicine to foar hours instead of six, when the digitalis (being now six grains daily) produced its powerful sedative, in addition to its diuretic effecta, requiring the leaving out for some days that ingredient, to be returned to aliter some four days, but only balf the quantity. I was able to sit up on the $35 t h$ day and to ralk out on the 40 th.

During 12 gears practice I never in the treatment of dysentery met with a narcotic to be compared with Dr. K's. combination in relieving general irritability, pain, and abore all, nausel and vomiting. It produces a wonderful degree of comfort, unat:ended by sensorial disturbacce. From 30 minutes after the first dose was taken, which contained but half a grain of each ingredient, my sufferiag was comparatively nothing. Little hopes were entertained of my recopery prerious to the flrat dowe, bat they became aanguine before I had taten the thind. I am now quito recovered, and I trust with very considerable improvement in my stomach complaint before mentioned, during the attucks of which
overy article of food, of whatever kind, became intonsely acid, and had to be vomited before relief could bo obtained. No modicise did any permanent good; sometimes for ten days nothing conld be taken, or if taken could not be retained. I certainly must say that: have folt less of stomachic disorder since my recovery than during any like period for the patt six or seven sears. Should this prove to be the effect of Dr. $K$ 's. combination (and I have reazon to think so) it will add greatly to ita importance as a remedy.

My friend, Dr. Bingham, alds the following testimony :-
It is with much pleasure ihat I add my testimony ${ }^{+3}$ that of Dr. Brown in favour of the very remarkable powers of Mr. Kerr's narcotio powder.

After closely observing its effects in the case of Dr. Brown, i had an opportunity to test its norits in sir cases, one of whicu was somewhat similar, although none of then were nearly so severe nor protacted as his. The first patient to whom I administered it was a child some three years of age who had been suffering very severely from tencemus and the muco-bloody discharges peculiar to tho disease, for four or five days, with but few or no finttering symptoms of amendment, although the usual remedies prescribed in such cases, viz, calomel, opinun, ipecac, and acet. lead bad been steadily persevered in from the time I first visited the patient. Immediately after giving the powder to the child the first time, the pain wus very greatly relieved, and ihrough the sulsequent employment of the remedy, regularly continued, thelittle patant sufferod a verg trifing amount of pain nutil the tormination of the disease, which however did not occur until after the lapes of some two or three weeks from the tine of invasion.

The calomel ndminis' ered upon my first visiting the patient produced a degree of ptyalism I had neituer anticipated nor desired, and to this circumatancr, I ver. frankly admit, I attributed in a great measure the protracted character of the case.

The secord case in which I employed Dr. Kerr's combination, was that of a lady recently confined with her fourth child, who bad been suffering severely not only from the generat symptoms of the disease, but also from nausea and delirium, which latter sympton, jowever, had only been present for a few hours before I saw ber, the invasion having occurred some four or five days previously, from which time up to the hour I suw ber she had been testing the efficacy of all kinds of domestic remedies, among which as I was informed was a strong infusion of peach leaves. In this case, the first dose was given at bed time, and the pa
tient slept soundly until morning. Before its adminiatration the atools were attended with great pain, and occarred as frequently as every half hour. In three days from the time I first saw ber she pronounced herealf quite . 1 .

In three out of the four remaining cases it was the only remedy presoribed (the patients being children of the respective ages of twe, eight, and twelve years), and with the most speedy and flattering results. In the sisth and last case in which I had an opportanity to try Dr. Kerr's remedy, the patient was not confined to bed at all, although suffering pretty severely, but he couid not be prevailed apon to remain quietly in the house, while he persisted in eating whatever he felt inclined to take as diet, and the case rat on for some two weeks, although to a farourable termination.

An officer who was for some fifteen years a resident in India, and who has seen a good deal of dysentery in both India and Canada among the tron, s, recently stated in a letter that he succeeded in curing four ceseas of the cisease with Dr. Kerr's powder, one of them his sister, in whowe case the disoharges were distinctly hemorrbagic and alarming.
[W'e have been favored with the perusal of a letter from Mr. Lockhart, late of Lockhart \& Louson, of this city. He relates that when crossing the Atlantic is the steamer "Edinburgn"" last July, he was seized with dysentery: which altogether resisted the efforts of the surgeon to cure it. On the sixth day, he recollected a small packet of Dr. Kerr's medicine in his possession. Recovery commenced with, and was completed by its use.

We learn that Dr. Kerr lools upon the arithmetical series of the three nataral orders containing the plants specified, as the curative agent of the ulcers of the mucous membrane in dysentery, the emall quantity of opium being added to chec's the frequency of the discharges. Ho further believes that the ofleacy of the nedicine is not confined to dyeontery; but will be fonnd to extend to affections of the mucous membrane elseWhere, such as the sore throat of scarlatina-Eds. Med. Chron.]

## REVIEWS.

ART. XIII.—Diseases of the Urinary Organs. A Compendium of their
 Morland, M Jun of the Massachusetts Medical Society; Mernber of $t \quad$ on Society for Medical Improvement ; One of the Attending ..geon. is the Central Office of the Boston Dispensary, dc., with illustrations. Pliladelphia: Blanchard and Lea Montreal: D. Dawson and Soc. Quebec: Middleton and Dawson, 1859. pp. 578.
Few of the publications that issue from $t^{l_{1}}$ medical press are entitled to the rank of specimens of elegant composition. Nay, even gond writing is not much cultivated ly the majorily of professional authors Theso are things to be deplored. Fortunately, in general the defects as well as imperfections in style and in expeession are not of so conspicuous an order as to arrest the mind of ordinary readers; while comnualy a specics of uniformity is fcund te pervade the mass of productions most likely to ${ }^{1,0}$ consulted, which prevents what would otherwise be singular from being noticed. Occasionally, lowerer, it is otherwise, and then faults are so glaring and so gross, as to be evident even to superficial or humble observers, such as ourselves. An example of this is farnished in the work above anmed, and from it we bave chosen a few instances by may of illustration. Speaking of cancer of the kidney, Dr. Morland remarks :-

- Propagation by contiguity is not uncommon, as from the liver to the right side of the kidney; from stornachal or intestinal contact (those organs beiug diseased) with the left.
It is the latter part of the sentence, the part posterior, as an anatomist wouid sas, to the semicolon, we are struck by. A reference is there made, in parenthesis, to certain organs which we do not Sad any where specified more precisely than by the vague intention which the words preceding contain. Their reference "stomachal or intestinal" not signify. ing, properly spanking, any organ, bat on the contrary something pertaining to or relating to the-s'omach or intestine, and which is here explained as contact. We hold that neither a referance nor a rolation is an organ.

Again, in the sarne page it is said-
" Hxmaturia occurs in variable degree in renal cancer. If abundant, it may plag the ureters."

Here there is a confusion made of an act and its product. The aot (Hæmaturia) cannot plug the ureters; bat its product (extravasated blood) may. The continuauce of the act implies that the escaping material is iu a fuid condition, and in this stats forms no mechanical obstacle; for, admitting it to be ן'oured forth in quatity so, abundadt and so quickly as to fill up the urinary reservoir with its aqneducts, the distention would provoke contraction, and the whole would be speedily afterwarde expelled. Where, how_ver, the bleeding is in less quantity, it is not improbable a portion of the liquid may be so circumstanced as to undergo coagulation, and the clot becoming entangled with the mucous lining may constitute a veritable obstruction and so plag the areters. 13 it this is altogether differ int from what is to be made out of the $\mathrm{sin}_{1} \times \mathrm{re}_{\mathrm{j}}$ went extract. There, instead of the physical occurrenoe being ascriled tu itz real canse, the product effused; it is expressly apoken of as due to the act of hemorrhagy itself since this (hematuria) forms the nominative throullont.
Leaving ths, our uext inspection opens up a nest of curiasities, some dull, some meaniur'ess, some pervers3, sowe stinted.
" Differential diugnosis. Cancerons tumor of the kidney may be supposed, when the enlargement is of the liver. The renal swelling however, if there the no a atomical displacement, is in the lumbar region. * * * $\Delta \mathrm{u}$ enlarged kidney is not moveable; were the tamor of aplenic origin it would extend higher up into the chest and its anterior, notched edge is frequently distinguishable."

Now we ask, what is meant by the first declaration! "Cancerous tumor of the kidney may be supposed, when the enlargement is of the liver." Are we right or are we wrong in underatanding thereby that in a given case when the liver has been found enlarged, cancer may be suspected to exist in the kidney, in other words, that cancer of the kdoney is denoted by an enlargement of the liver. If we are wrong in this deduction, how are we to know it-bow are we to ascertain this is not what the writer implies ! He evidently considers his statement selfexpressive, for the context does not seem to render it more lucid and certainly not more impenetrable. But if we are right, can we believe the author to be serious and truthful, or shall we not ra'her hold him gailty of perpetrating a preposterons absurdity in the face of simple bonety. Eulargement of the liver a diagnostic sign of a Cancerous Kidney! Incredible !! Prodigioua!!!
The second sentence is also mystical. Taking the aid afforded by the commas, and eclipsing what they include within their em
brasure, we soad this trite truth. "The remal swelling in in the lumbar region." That is true, but, as we have said, it is a trite truth. We believe the kidneys always lie in that locsitity, and we know of no instance where they were ever found in any other as the epigastric,--thus, by our selection, imitating the author in his loose style. With this conviction of the prevalent situation of these important glands; ree are confirmed in tha further idea that the expreesion within the commas can have no reference to them, and is one represeating really, what it appears to be, a general provision. Accordingly we may go on to think that the above relation is ouly in the normal condition of the system, and that when this unhappily becomes disordered as by "an snatomical displacement" then the rule ceases to be of force. And as the "displacement" is cut off from immediate connection with the "renal swelling" it does not necessarily concern any deviation in the position of this tumor, but on the contrary, being general, it has a universal or "anatomical" reference to any one of the numerous parts of the hody. Under which interesting almission, the legitimate inference is, by application, that a dispacement of the shonlder jointo which is strictly anatomical, or any such accident, mast entail a corresponding difference in the situation of the renal tumor! Believing the author to be above desiring to impart sucb decidedly unsound teaching, we must considerately give him cridit for wishing to convey some other intelligence than that now drawn from his words. Still we think he will concur with us in considering it to be a matter of deep regret that he should have penned them so uncertainly as io allow of the possibility of such a signification being put apon them; of course to the educated, the mentence may hot have serious difficultien, aware of what should be averred, a more right view may be taken for granted. Yet, it is far otherwise with the uninformed : let one not versant in medical attainments read the passage thus commented ch , and who shall ray his ideas will not accord with our exposition.
In the last paragraph there is also another example of the mischief of bad writing. It is observed that, "were the tumos of splenic origin it would extend higher up into the cheat." We cannot certsinly anppose a person who undertakes to publink a monograph on the urinary organs is so ignorant as not to know that the spleer is not situated in the chest. Fet, if we are to judge of him by his language, what other import is to be put upon it. In what occurs there is r'thing to warrant any other conclasion than that the apleen being naturally in the cheat, ite relative porition becomes comewhat elevaled by the enlargement, and no occupiee a higher plase
within thie carity, or, as pore quoted, it "extetran highor ap" Ob serre it is not said the organ is nearer to the cheot, or enarosachen upon it; but that it is actually "into the chest," or, in equally signifoant words, that it is within the chest. We cannot belfeve the author to be as ignorant of anatomy as he labours to describe himself, and therefore wo would throw the odium entirely upon the clumsy, inelugant manner of his diction. We refrain here from marying grammatical errors, our businees is rather to show the false impressions which his mal-componitions convey.

Still another :-
"The form of the blood often reveals its source"
The blood as a perfect whole, such as implied when the word is unqualified by any other, has no form, nor can it have any. It is absolately amorphous, and therefore to speak of its form is folly. We admit that varions parts of the blood have a definite shape, but theo do not justify the statement, for of these parta, which are we to anppose is referred to; is it the red corpuscules! or if not these, is it the white globules 1 or if not these, is it the crassamentum into which, by rent, blood separates ! or if not this, is it fibrin, disentangled from other components, which has solidifed and been moulded to the resarvoir wherein it liee 1 or if not this, is it an albumino-plastic exadation derived from the circulating mass ? And if, by happy adventure, the right portion has been hit uper, if one of these be the thing meant and not another, apon what propriaty can the general term blood be devoted to it! These are queetions which it will require some ingenuity to answer, 20 as to eutablinh the right of the author to put forth his loose appellation ; for it will have to be shewn that a pait may denote the whole, and that, though that part be liksly to be counfounded with other parta, it is comprehenaible simply from a nonentity, an unsignified intention.

Occasionslly Dr. M. variea his style wit'ı a word borrowed from one of the dead languages ; the introduction however atrikes na no not being always of the most felicitous character. Iu enumerating the afmptome of the leciou noder notice, after a full pause, he opens out into a olmemioal air by saying-
"The facies of the patient is peculiarly anxious."
Leaving it to be settled whether a ahorter word in the varasoular would not jave been more euphonious and lees pedantic.

Againat some of his combinations of worte we muet sutor our prolect, mea though we have to dopart from the field to which we had formants

"comparatively quite rare," and auch sort, that bolong th the rame catogory, with iunorroct phraces liko " many years provious to," "covered with a scant growilh," de.

To unrefiecting minuls it may neem a subject of indifference thether one styly or another be allopted in writing inelical worken, but a littlo condideration would undereive them. An we have shown, the emposil. tion may in so perteres or mist! ne to imply to the readep ocs sense, while the author designel an entirely different one to be understowl. Medicine is a learned profession, and thome who write for the inatruction or improveurent of ita volarica ought surely not to noppear anlearnod;-othurwine, whore is thelr emmpeteney or nilequacy to dinc!?arge tho thas thoy have undertaken! No man harine the ntility will be indifferent to his languago, for experience teaclice that the amo nubstance or sulbject may be rendered wanmeons or agreesble ancoraling to the stylo and form in which it is dressed or trented. Raw fuod is obnoxious to the cultivated palnto, nor can it be ansimilated withont danger; but the ame article when micely cooked lane its digestibility inoreaved, and may lat esicemed a delienיy. It in precisely so with literary efferts : rough stuff will be holted, while the pulished will be received kindly. In common hand-looks a furmal, stiff, deac iptive atylo may bo tolerable, because conventivially aceepted; but in bouks of a lighor ordor, such as the practitioner requires to consult, whervin he may read the clinical history of disense and lenrn the experience of prodecessors, the diction should be of a far higher cast : and the more atrictly correct it in, as well as the uore alorned, so in proportion will the matter bo recommended to the mins of tho reader, both by a more ready acquisition and by a wore eaduring rocollection.

ART. XIV.-A Manual of Medical Diagnosis. Being an analysis of the signs and aymptoms of disease. By A. W. Barclay, Mi. D, Cantab. et Eli $\urcorner$, Fellow of the Royal College of I'hysicinus, Assiotant Physician to St. Ginorgu's Horpital, dus, do. Philalelphia: 13lanchard d Loa. Muntroal: B. Dawson \& Son. Queboo: Middlewn \& Dawsul. 1858. pp. 423.
The olject of the present mannal, so far an we havo been ablo to ancertain, in not, ns might ?. in inferred fron its titlo, to set forth the aymptoms of diatinction between analogous affections nor to enter upan the differential features that subsist between them; but rather, on the contrary, to inpart inatruction upon the beat procedures to be inatituted in individual cares of disence, with a view of disoovering their true nature
and real anat. Accordingly it afforde expositions of the varions oxaminations that require to be pursued in determining the value of the indioations that neet the inquirer in his investigations into matters of diuical study. Altention is directed to the principal points that requiro to be considered, and the chicf scurces from which knowledge is to bo Jenved are expatiated up.n. The comparative value of different signs and modes of examination is, where required, brought prominently before the eye, and the entire description so arranged as to lead to the most complete ostablirhment of the diaghasis of which the present state of scienco permits. This work is therefore one whinh will be found eapecially useful to the Mospital Stuient, Chef do Clinique, and indeed to all who are not experts by method or by practice in the art of which it treats. it in as the preface atater, a "guile to the asstematic investigation of casea in the wards of the hospital." The plan upon which it in motelied is similar to one that Dr. Barclny followed in "more than 12,000 pationts" with whose particulars he was called upon to be familiar while sorving in the capncity of Medical Registrar of St. George's Hospital, London. It contains 35 chapters; of these the initistory ones are upou the method of diagnosi, duration and sequence of phonomena, and goneral condition of the patient; they are preceded by an introductiou in which sevornl general topics are briefly disoussed, as, the provinco of diagnosis, error of pathognomonic signs, compound causes, etc. The greater number of the remaining chapters are ongrossed with special diecasen, either general or local, in classes or alone; while separate chapters are, in muldition, devoted to severul co-selated matters, an, the general examination of regions and organs, semeiology of disesses of the braiv, examination of the chest, modifications of normal breath and roice sound and of percussion resonance, superadided sounds in their relation to alierod breath and roice sounds, examination of the heart, and examination of the urino. We liave been so favourably impresed with the acope of this volume and with the ahility of in execution that we should like to see it in the hands of every student, be he jourg or old, and, still botter, evory one mastering iis teaching4. We regard it as an important addition to medical literature, meeting a necossity whinh, we believe, oxisted in our language, and preseuting novel features to the ordinary Englioh buroke that have boen published on the subject of disease. It is mentially practionl in ita tendencies, and well calculated to assist the medical inquirer in the various researches he is expected to prosecute.

ART XV.-Concentrated Organic Medicines. Being a practical exposition of the Therapeutic properties and Clinic employment of the combined proximate Medicinal constituents of Indigenous and Foreign Plants. Te which is added a brief kistory of crude inorganic remedies, constituents of planta, concentrated medicinee, officasial preprations, ctc., etc. By Gbover Cob, M.D. Published by B. Keith \& Co, New York, 1858. pp. 432.

The reader might imagine from a perucal of the title, which is quoted above in extenso, the worl to which it referred was one of a most valuable character. Let him not be deceived. "The combinsd proximate medicinal constituents of indigenous and foreign plants" upon which it professes to treat are, in plain spenking, preparations of certain remedies in use among Thomsonian, or cayenne-fire and lobelia-puke doctors, the gentlemen who rejoice in a self-inaugurated Eclecticism. These compounds. have all very fine names, as a few examples wili serve to shew, to wit: asclepin, ampelopsin, alnuin, apocynin, baptisin, cypripedin, chimaphilin, caulophylin, etc. No information, so far as we can find, is laid domn apon the method of manufacturing them; that part of the sabject appears to have been purposely kept enshrouded in inupenetrable forgetfuldess or oblivion. Great pains are however taken to sound forth the praises of the articles as they are made by Messrs. Keith \& $\mathrm{Co}_{\text {, and }}$ in this consists the " practical exposition of the therapeutic properties and clinic employment" of these irregular and defective chemicals. It is very erident to us, and we presums would be equally so to any one else who condescended to look into this "exposition", that the articles therein be-lauded are to be procured from these proprietors, than whom, for aught that appears to the contrary, there are no other vendors. Most rightly is it styled "practical," for its tendency is to invite the purchase of the proffered articles, and to serve as a new kind of advertisement, adding one more to the dodges of trade for which certain classe in American society have acquired an unenvisble fame. We had almost forgotten to remark that the work is rendered yet more attractive by illustrations. Both editor and publisher have handed down to posterity their veritable likeueses. Dr. Coe figures in the frontispieco-Dr. B. Keith just in front of the page (100) which enlarges upon his "enterprise, energy and iddustry." We have no hesitation in saying the portraits of these two worthies are most striking! and represent very remarkable characters! ! men of whom it might, in every aense, be said, they were no ornazionta to the profersion whose title they appropriate II!

ABT. XVI-Lectures on the Principles and Practice of Physic, dedivered at King's College, London. By Thoyas Warson, M. D. Follow of the Royal College of Physicians ; late Physician to the Middlosex Hospital, ald formerly Fellow of St. John's College, Cambridge. A new American, from the last revised and enlarged . English edition. With additions by D. Francis Condie, M.D., Fellow of the College of Physicians of Philadripaia, Member of the American Philosoplical Society, etc, etc. With one hundred and eighis-five illustrations on wood. Pr. 1224. 1850. Philadelphia: Blanchard \& Lea. Montreal : B. Dawson \& Son. Quebec : Middíeton \& Dawson.
The numerons and important additicns which of late years have been made to the science of Medicine, rendered a new edition of this favorite work a thing mach to be desired. In the wrords of the preface, "in the fourth London edition, of which the present volume is a re-print, the lectures of Dr. Watson have undergone a thorongh rovision, and whatever of value recent rescarch has added to our stock of knowledge in the various departments of medical science has been carefully incorporated in them. The lectures, on fever especially, have been greatly enlarged and inproved ; the positive distinctions that have been insisted upon by eminent pathologists between typhus and typhoid fevers are recognized at being founded on truth. The extent of these additions is shewn by the fact, that, notwithstanding a very cunsiderable enlargewent in the sire of the page, the work has been increased by about two hundred pages. The very full and accurate exposition of the present state of pathology and therapentics, in reference to the diseases embraced in these lectures, has rendered it necessary to augment materially the size of the work by frequent or extansive additions. In regard to a fow of the forms of disease more particuiarly interestiug to the American physician, the account given by the aucior will be found somewhat defective, while he bas omitted to notice one or two affections endemic to the United States. It is to remedy these deficiencies that the Editor, in preparing the present edition, has mainly directed his attention." Each of our readers will find it to his adrantage to provide himself with the new edition of Watson.

[^0]of Surgeons of Englanil, etc., etc. I'hird American edition. To which is added: On Diseeses of the Vesicula Seminales, and their associaied organs; with special reference to the morbid secretions of the l'rostatic and Uiethral Mucras Membrane. By Morris Wilson, M.D. Pp. 880. 1858. Philadilphia: Blanchard \& Lea. Montreal: B. Dawson \& Son. Quebec: Middleton \& Darson.

Much distress of mind, misery and sickness, might be prevented were physicians to study more particularly everything relating to the abuse of the generative organs. Many appear to have such an antipathy to the subject, that it leads them to ignore entirely facis which are patent to their eses, and which meet them at every turn. Masturbation and other forms of abuse prevail must extensively sunongst the youth in our educational institutions, and even those who have been kepr sedulously within the precincts of home are not exempt from the vicious habit. To every practioner who has not made himself acquainted with what is known regarding self-abuse, spermatorrhcea, dc., we cordially recom. mend this work of M. Lallemand's; which is, undoubtedly, the best and roost complete work on the subject that has ever been published.

ART. AVIII.-A System of Human Inatomy, General and Special By Erabmus Wilson, F.R.s, auihor of "The Dissector's Manual," "A Treatise on Diseases of the Skin," \&c. A new and improved American, from an enlargel Lonlon edition. Edited by Willias H. Gobrectet, M.D., Professor of Anatomy in the Philadelphia College of Medicine, Fellow of the College of Physicians of Philadelphia, ets. With three hundied and ninety-soven illustrations on wood. Pp. 616. 1853. Philadeiphin: Blanchard \& Lea. Montreal : B. Dawson \& Soc. Quebec: Midlleton \& Darison.
"The present edition ibas been carefully revised and corrected; many parts, especially those relating to Histelogical Anatomy, have been rewritten, and a considerable addition las been made to the number of the wrod-cuts. The author, thesefore, feels some conficience and astisfaction in presenting this edition to his readers; and trusts that the Anatomist's Vade Mecum may coninue to deserve the favour which it has hitherto receivel at the hands of the studeut of medicine." Notwithstanding the number of competitors that bave entered the lists to win the favour of the student, Wilson's Vade Mecum still remains in his estimation the text-book on Anatomy.

## CLINICAL LECTURE.

(Medical Circular.)

On Severe Compound Fractures of the Thigh and the Diagnosis of Ruptured Blood Vessels in such cases. By Edfard Stanley Esq. F.R.C.S, F.R.S., \&c., Surgeon to St. Bartholomew's Hospital.

Gentlemen,-I am nearly sare jou will all agree with me, now that we have fairly commenced our elinical cases and reports for the new Session, that there are two most essential modes of gaining surgical knowledge-obiervation of surgical cases and reading; and by reading I would wish to include the taking of notes and comparing of your notes in manuscript with your classbooks; you mush 1 say, not only observe cases and Leep on a level with existing inprovements, but you must rotain in your memory for practice hereafter what is thus taught. Opposite advice is occasionally given in journals, but when you recollect that hospital cases are continually following one another in your uemory and fading away out of your memory you will agree with me that the truly industrious student is he who takes notes of cases in large numbers! But some one asks-"Is he to take notes of all the cases ?" Oh! dear nol he is to select such cases only as illustrate great or primary surgical principles; let it be either as regards hernia, amputations, injuries of arteries, \&c. Such note-books will be oi great value to you in after-life. I began note-taking myself when I was a year in this hospital, and I find these notes most valuable to m9 every year still. Your own manuecript noten bring back the details of cases to yonr memory in a much more vivid manner than to have to hunt up cases in printer volumes. I would adrise each of you to get a "common-place book," like the one I nuw show you; it is on the plan recommended by the celebrated Mr. Locke, whose works are in the Library.-[Mr. Stanley caused immense amusemont by gravely turning this curions old manuscript relic ont of a paper cover, when it partly fell to pieces in a peculiarly common-place way, though fall of invaluable notes of good Mr. Abernethy's times-its prescriptions rich in suggestions, or as Hudibras bas it,-

> "Deep-stored with deletory medicine That whoso'er took is deed since."]

Well, I propose to-day to speak again of a case admitted a year ago into the hospital-I mean that boy now in "Bentley's" ward; he has bean up and about. I think I see some one gentleman or two amongat
the 120 now listening to me who took notes of this case; they will remember its chief characteristies* The case is headed in my note-book.

## Compocind Fractcre of Rigit Thoh and Severg Injury of Opposite Lime.

Followed by another essential particular-temporary cessation of pulsation in the aricries of the punctured liml. The boy is ten years of age, and it seems his legs got under the wheel of a waggob, or anoungst the spokes of the wheels. Yes just so, compound racture of the right femur, and a condition whon the boy was brought almost immediately to the lospital that the house-surgcon looked upon it as almost a hopoless case, in which gangrene might immodiately be expected to set in; the prlse at the wrist was scarcely perceptitle: both linibs appeared severely contused, and much blool had oozed ont and become infittrated in the right thigh, near and around the wound. Several persons who saw the boy on his admission were unable to find pulsation in the arteries of this limb. The boy was very much exhausted; and, in short itwas sent for at aight to amputate as it was then believed to be compound iracture with the femoral irtery torn through from the injurg. When I arrived $I$ found the lad lying in a state of most sad and complete collapse, nearly palseless, and in a condition. as regarded the fractured thigh, that le't one little room fur hope of any kind ; still I had some little hope, for I thought, aiter a little, I could detect the shadow of a shade of pulsation in the limb. When a half hour had elapsed this little twinkle of a pulse was still more marked, and to make a sbort story of a long ove, as the collapse passed away the pulsation gradually returned, and we had now at length a hope not only that we could, perhaps, save the boy's life but his limb.

Now, you will say how is this cessation of pulse accounted for and its gradual restoration. Well, I believe there are two different modes in which pulsation may be impeded, and again set going. One is, that in the "smash" made of the thigh by a great waggon wheel, one of the fraginents of the bone becomes impacted in some manner, and mecha-

[^1]nically presses on the fenooral artery; that then, by ordinary manipulation of the limb, aye or by merely lifting the boy on to the operating table, this piese of bone gets displaced again, thus setting the artery free. Thas, simple temporary compression of the ressel may mislead the sargeon, and I would sivise you in privato practice to take cars of this. The other explanation is that simple "contusior: of the arterial coats without laceration may have stopped the current in the femoral. I have seen this in other arteries, but the practical rule I wish now to inpress on you is this, that except signs of gaugrene be e-tillished in such cases the surgeon is not justifed in the diagnosis of ruptured or lacerated artery. These maỳ appear points of rather triviai importance to you, but you see the life of a fellow-creature depends on a groud diagnosis.

Nom, as to the other limb or knee: you know the knee became inflamed and suppurated, and I was oblligel to make an opening which gate exit to several ounces of matter from the joint; this part subseqently became anchylosed, and not at a very service able angle, jet I do nut like to expose this boy again to acciucuis of chluroform or ether inhalation in order to bend it. The lad is a perfect curiosity of what a let alone system of surgery may do ; there is some dead bon to come away, and even that, as it docs not seem loose, I am unwilling to medule with; that dead bone las taken a ycar to become detachel, but it is still fixed, and I think it good surgery still to lo nothing but wait.

Now, I think I cannot do better than contr ist that case with anothe: we have had in the hospital, the counterpart of various cases in this, my notebook or "common-place" book, I referred to at the commencement of the lecturc. The case is marked "Traumatic Gangreno" of lery from injury of the popliteal vessels, too clearly marked, as the gangrenc came on a few hours after the acci-lent. This case is that of another lad, aged nine years, playing in the strect, and as he was suldenly turning his body to run away, as in "cricket," a heavy body fell on the back of his knee, injuring the deiicate vessels in that situation. He was carried to hospital an hour after the occurrence; the poor lad was then utterly prostrata, but mark the notes of the case : "The skin of the limb is mottled and cold," eays the note-book; "no pulsation is to be felt in either of the tibial arteries; the posterior part of the knee or popliteal region is swelled, and one or two punctures with a lancet gave exit to a mere drop of blood quite black. As the swelling seemed to spread up the limb we decided on amputation;" some cold brandy and water was given to the lad, and we feared to use chloroform, but as this form of stimalus seemed to revire him, we gave him a little more and then a few cautious "whiffs" of chloroform, and I succeeded finally in taking off the limb, but the chiel
print in the case to which I wish to draw your attention is the state of the vessels; both the vein and artery were ruptared, and the mouthe of these vessels retracied. Here, unfortunately, there could be no secoad opinion according to our present canons of good surgery as to taking the limb. This is a class of cases you will probably meet, any of $J$. who gr into the armp, and the entire gravity of a gun-shot wound mav depend upon the fact whether along with a bone the adjacent vesoels may be irvolved in the would; if gangrene unfortunately sineth sup?rvene in any such caves, your course of procidure must be such as I have inlicated, but still such cases, as ycu see, require the utmost chation and attention.

## Tratmatig Injlifies of ihe Ubethra.

There is a man at present in "Kenton" ward, whose case offers several particula:a of interest. This man has suffered from an injury of his urethra anc' perineum, You probably know that a blow on the perineum, as in a mon falling straddle-wiso on a gate or paling, is likely to be followed by eymptoms of runture of the urethra usually in the spongy portion of that canal, or at the junction of the spongy and membranous portion as the urethra traverser, un crosses the triangular ligament. Now this is a clasi of case you will be mectiag very ufted in aractice. What do you find? Th. man has very severe $\mathrm{p}^{\text {min }}$ in $\mathrm{t}^{\text {te }}$ p perineum (for the urethra is a highly-organised part); there was a trickling of dropa of blood from the urethra itself, esperially where the corpus spongiosum is injured. What next $f$ The blade e:, unfortunately, will empty itself, or have a tendency to empty itselfinto the part injured, andretsintion of urine is almost sure to follow as a aympton. Effusion, however, I must tell you, is not an ordinary result of such cares: a cathetri is passed for the "retemtion," and por,ably all goes well. Well, suppose retention to go on to a great extent, what is the result. Now, a great practical fact is this, that rupture of the blatder seldom or never occurs in such instances; rupture of this risc•+ seldom or never occurs either in females or children; it is quis? , et at of direct violence and mizelief, asalmost any surgical mishap may occur. A man may have a drunken "bout," and get intensely drunk and stupified, and going out of a dark night tumble down the stcpa of a hall-dour, cr fall over a plank, or into a sand-pit his bladder being very full at the time, or he may fall off an omnibus when very drunk in the evening. In such instances the direct violence may destroy this viscrs, but otherwise the accident is rare, and you will very seldom sce $i_{t}$ even in this large hospital. The patient tells us he is forty-six years of
age; it seems he was engaged ia a squabble with a pulicaman, when the perineum was forcibly struck or injured, and next worning as he could not rase water, Le was brought to Mr. Paget at the hospital, who at once with his cjarasteristic sh.ill and prudence, passed a catheter and recommended the man tu cume into the hospital. Some sargeons say that in such a case you should cut down at once and open the urethra, but tais is not neccessary. Mr. Paget removed the catheter with some fear and trembling in a fertnight after and the man had done very well. The great practical faci is, that you must keep a catheter in the part until the tissues are completely healed and quie ; and if you do this, I think yon need not have recourse to any more formidable operation, such as cattir ${ }_{\text {o }}$ open the urethra.

## THERAPEUTICAL RECORD.

Treatment of boils.-The following mirtore as an aperient tonic is the one usaally prescribed for patients suffering wita boils: 17 Sulphate of magnesic
 quasia to s pint in quantity. Of this the dose is from two to four drachme three times daily taken in water. Locally each boil is touched with a glass brush dipped in the nit. ate of uercary solntion, and is sabsequently dressed with an ointment contairigg a small proportion of the ammonio-chloride, or some similar salt of mercury.

Treatment of eczema of the scalp and face in children.-A fair-haired, blue-eyed child, aged two years, was admitted with that so common and so troublesome fonn of eczems in which the whole face and scalp are involved, but the rest of the arricief free. It bad euffered since the age of gix montas, bat excepting the irritation of the sruption its general health was not interfers with. Mr. Startin
 The surface to be washed with the yolk of egg and water, and nmeared with the nitric oxide of mercc., ointment. Rapid improvement ensaed in this individusl case; and it may be taken as a fair illnstration of the treatment usually adopted. In obstinate cases the compound iodide mirture, which containg arsenic, is often 2 sployed.

The formulst for the abore mentioned preparations are-of the mirture-a drachm of iouine, an ounce of liquor potasse, and a pint of distilled water, each drachm contalning half e grain of iodine. (See page 26.) Of the liniment-. olire oll, two sances ; lard, two ounces; powdered nitric oxide of mercury, a drachm; oil of bitter almonds, half a scraple: and glycerine, 3j

Prescription for impetigo figurata.-A cacheAic boy, aged three, was brought to the hospital with acat'ered patches of impetigo figurats over the whole body,
more particularly at the Aerares of the joints. He was ordered to bathe all the infaned farta with the dilate nitic acid lotion, to apply the compound mercuria' cintment to all excoriations and ulcers, and to take thrt: tives daily e tesspoonfal of the following mixture; $\boldsymbol{f}$ Mist. hydr. co. $\overline{3} \mathbf{j}$, tinct. upii, $3 \mathbf{j}$, aque ad. $\mathrm{j}_{\mathrm{j}}^{\mathrm{vj} . ~ F t}$ mistura. (The mist. hydr. co. contains a tenth of a grain of the bi-shloride of mercary, and a fortieth of a grain of arsenions acid in every drachm.

The formula for the dilate nitric acid lotlon is half an ounce of dilnte nitric acid, and two drachms of tincture of myrrh, to a pint of water. Mir. Startin considers it quite as efficacions re the hydrocyanic acid lotion in relitving itching, while it is • :oarse far less expensive. The "compound mercurial ointment" is made by maing six graing of the ammonio-chloride, and six of nitric oxide with au ounce of lard.

Theatment of the different forms of aine.-In acne rosacea, and acne simplex, the acil solution of iron in haif ounce doses is usually ordered, whlle for the tubercular form Mr. Startin places more confidence in the iodide of iron. The latter is generally given in from one to two grain doses. Malt liquors are atrictly prohibited in all cases. In almust all the local use of the red lotion iz directed, and any larger pustules or tuhercles, which may be observed from time to time, are touched on their apices with the acid nitrate of mercary solation. In addition to these remedies the direction is mostly given to be particular in squeezing out the contenta of the distended follicles as soon as they becone perce ${ }_{s}$ tible.

Thd "acid solution of iron" is made by dissolving three ounces of Epsom salts, and two drachms of aulphate of iron, in lalf an ou ${ }^{+}$- of dilate sulpharic acid, and a $p \mathrm{n}^{\prime}$ of infusion of quassia The "red lotion" conststs of two scruples of the bi-chloride of mercury, one of the bi-sulphuret, and ten minims of creosote, in a pint of water; each ounce containing two grains of the bi-chloride.

Alkaline treatment in glucosuria.-We notice, in the Union Medicale, reports of five cases of liabetes cured, or much penefited, by the ase of mineral watert of Dougez, in France ( which contained the carbonates of soda, lime and magnesir), under the are of Dr. De Crozant. He considers the affection to result moat frequentl: from disense of the liver, which opposes the pasage of the glucose derived $f, m$ the starch in food, causing it to be taken up by the supplementary abdominal circulation, which conveys it to the kidneys.

## PERISCOPE.

The Antayoniam of Opium and Quinia. By M. Gedurr.
M. Àubler read a paper before the Société Médicale des Hopitaux de Paris, on the antagonism betweer opium and sulphate of quinia, of which the following is a synopsis condensed from the summary publ ihed in "L'Union Medicale" of May 20, 1858. Being unwell himse?, M. Gubler took sulph. quinia in 0.50 centigrainmes doses only, and was atruck with the fact that they produced humming in the left ear only, although his hearing is equally good on both sides. This pectuliar effect occurred three days in succession. As at that time he suffered from a healache, waich was most violent on the right eide-en which side it is always greatest in M. G.-Le was led to suppose that the evident congestion on the right side neutralized the effect of the quinia, which effiect M. G. considered due to the privation of the brain of blood (anémier l'encephale décongestionuer le cerveau), the remoral of congestion of the brain. M. G. having recorered his health, resumed his attendance in the wards of the hospital. LIe there saw a case of acute articular rheumatism, in which large doses of sulph. quinia and opium had been administered for several days without success. M. G. continued the do-e of sulph. quinia-i. e. 1 gramme 50 centigrammes, with 0.25 ceatigrammes of extract of opium. Finding that the peculiar therapeuticai effects of buth remedies were entirely wanting, he increased the dose of sulph. quinia and diminished that of the opiate, withoun, however, any better success.
Laitly, he left out the opiun altogether, and gave 1 gramme 50 centigrammes of sulph. quinia a. nee, which produced, in the most marked manner, the peculiar remedial effects of that drug. And from that time the rheumatism diminished rapidly and markedly. This and other subsequent cases of the same nature confirmed lim in his belief that opium was antagonistical to sul,h. quinia, or, so 10 speak, its antidote.
M. Gubler enunciates his particular views of the mocius operandi of opium and sulph. quinia. According to him, opium produces congestion and hyperæmia, while its antagonist, sulph. quinia, produces anæenia and dissipated congestion-(auémie et décongestionne).

The following are the conclusions of M. Gubler:

1. Inversely to opium, which exalts organic action, producine; sangaineous congestion and caloricity, sulph. of quinine acts on the servous system, by condensing the forces there, in such a way as te arrest organic
action, the source of waste, and to diminish as much as possible the afflux of blood in the inflamed parts. (Sic.)
2. This modus operandi once admitted, we can readily understand the inoocuouspess of sulphate of quinia in the cerebral synptoms of rhenmatism, which symptoms resent experiments have already tended to show were not duc to its use.
3. Mcreover, the use of sulph. of quinia is indicated in all the inflammatory forms of cerebral rheumatism ; opiun beitg se:viceable in the nervous Corms only, and in these only when not complicated by ferer.
4. Sulph. of quinine and opium being antagonistic, should not be given together.
5. There two remedies may be used as patidotes to one another.
M. Guérard thought that sulph. quin:a did "décongestionner le cerveau," and stated in support of his opinion, that its use produced imminent syncope. Some years previously, wh'le suffering from intermittent fever, he had take a large quantities of sulrh. of quinia, sometimes for a month at a time, in a sengle dose daily. As long as be remained in the recumbent posi:ion, he experienced no unpleasant sensation, but when sitting, syucops was imminent. He had sean a second similar case.

With respect to the antagonism of opium to sulph. of quinia, he was the more ready to beliere it, inasmuch as in his these de concours for the chair of theraneutics; he bad sbown that the effects of medicines when isolated might te seutralized by combination; and had mentioned that M. Caventol had siven strychnia combined with morphia, each in large do:es, and that the eluats of the combination bad been greatly diminished. Substances which are poisonous by themselves, cease to be so when united.-N. O. Med. ainl Surg. Journal.

## Caloric appied to Surgical Uses. By M. M. Geyot and Bavdot.

M. J. Guyot, in 1842, published an essay "on the employment of caloric in the treatinent of ulcers, the woujds :esulting from amputations and ather considerable surgical operations, hysteria, skin diseases, rheumatism, etc." M. Guyot was led to try the therapeutic effects of caloric upon animals, from the following theory, which he has given in the shape of three propositions :

1. The proximate and exciting cause of his in all orgrnized beings is caloric.
2. The chief object of the organization is the production of a certain quantity of caloric, and its maintenance.
3. All the functions and vital phenomena are under the dependence of the temperature proper to the individual,

These experments, followed with intereat by Magendie himself, neemsd to confirm the theoretical views of the author, sud the resales of his experiments wera:

1. That wounds healed in every case (willout diressing) more rapidly in a temperature of $30^{\circ}$ centigrade or $86^{\circ} \mathrm{F}_{\text {, than }}$ in an inferior temperature with or without dressing.
2. Thi greater number of wounds have been healed in the bigher $t$-perature without inflammation or suppuraion, a circumstasise not to in served under ordinary conditions. "I cannot consiue: as inflammation," says M. Guyot, "the normal process of cicatrizati,n, which never operates well except in the absence of pain, swelling, reiness, and abnormal hent."
3. Wounds have been healed by a temperature above $80^{\circ}$ F., which had previonsly resisted the healing process while at the ordinary surrounding temperature.
4. Wounds in fall and free sujpuration have ceased to supparate upon being surrounded by a iemperature equal to that of man under normal conditions; and these wounds bave taken upon themegives the characters of recent wounds, aud have healed after the manner of such.
From the above data, from the observations of Larrey upon the influence of climate in surgical practice, and encouraged by Magendia, M. Guyot extended his experimenth, and with success, to tha human subject. Thin plan of treatment now received the nams of "incabation," and was defined as a medication, consisting in submitting certain parts of the bady to the action of a constant temperature, almost equal to the proper temperature of the individual ; that is, about $89^{\circ} \mathrm{c}$. or $98^{\circ} .8 \mathrm{~F}$. It was further divided into-1. Inceblation, local or circtmecribed, in which a limited portion of the body is submitted to this therapeutio agent. 2. Incubation, diffused as in the treatment of chlorosis, amenorrboea, codema, asciten, zeuralgia, etc.; whilat 3rd, and lastly, we have other general application of this process, as in the treaiment of scrofula and rickets. The required temperature is obtained by means of a spiritlamp applied to viriously contrived containing cavities.

Accoruing $\omega \mathrm{M}$. Gayot, the incubation exerta both a local and a general influence upon the economy. Locally, it,

1. Relieves all pain within a very short time of its applicatiou.
2. Causes the disappearance of the redness (whether this be inflammatory or congestive), without ever producing it.
3. Constantly diminishes, and moat frequently removes the tameficotion, active or passive. Should pus be already formed, the incubation
will bring the abscess to maturity, by causing the eesolution of the aurrounding infiltrations.
4. A prompt anclioration of wounds of a sluggish, inert and unhealthy appect-the pale ness and flaceility beng immediately converted into a rowy aspect, with all the appearances of viger and activity, whatever may have been their $p$ revious coulition.
5. Whonever a wound in full sumpuration is subuitted to tho infin-
 nou out of all proportion with the size of the wotad, the wond is prompty redured to a goon and hoalthy comdition.
6. Cicatrization is more rapid, but it is impossible te determine exactly the ammut of this adrantage, as will be easily understond.
7. Amputation woumda are mors ensily and quickly healed, although beg exactly the same privesses, viz.: br degorgement, suppuration and cientrization after ashorter or longer perion. From obaervation of these cases, we can ouly state that they henl incont"stahly better by incubation than by any other mothod at present em. heyed.

From the nbove, it will bo scen that tuis plan of treatment is meroly and modestly looked upon as simply favoring the happy termination.

As to the general action of incubation :

1. When applied to wounds resulting from emputations, it supprcsess or considerably diminishes the trammatic fever, and consequently calms the patient, and places him in a condition where, 1 is appetite returning, he may be better able to withatand the enemy.
2. If, as the consequence of $a$ long and undermining local disense, the patient is exhaustod by sauious suppuration, colliquative dir.rrhca, and consumed by adynamic fever, the incubation will raise up his forcea, calm his pulse, arrest the diarrhien, and moderate the auppuration.
3. If the female orgnnism be subject to those nerrots movementen alike so :racious and so painful, which characterize hysteria, this plan of treatment will calm the patient and re-establish health.

In support of his view, the anthor reports the results of thirty-two cases of amputation, fifteon cases of uleer, and ten serinis recent wounda

At the period of publication of the above, this pran of treatment crated considerable noise in the medical world, and seemed destinced to occupy a considerable space, and exercise no ordinary influence in medical aud surgical therapeutics. However, the state of health of M. J. Guyot obliging him to quit the arena of medicina, bis propositious and practice were alike by degrees forgotten, either from indifference or default of couvictiou on the part of the surgeons; so completely has incur
bation, an a therapeutic, been lost sight of, that many of our existing members would iee able to give no other defnition of incubation than that to be found in Maunder, viz.: "the act of sitting upon eggs to batch."

Is this lapse frum the medical memory merited? This is a question which a thesis publislied and anstained before the Frencl: Faculty of Nedicine this ycar, by a M. Cdmonal baulot, seems to setule.-Medical Tines and Gazetle.

Nouv-lles Recherches sur la Digention. Premiede partie sur le Principe Acide du Suc Gastrique Par M. Blesdlot, Docteur en médecine et Doctour des-sciences, a Nancy.
Le locteur F. G. Smith, professeur de phy-iolagie a Philadelphie, agant publié dans ec jourual (1) des expéricuecs sur la digestion, qu'il a eu locecasion de pratigrer sur lo Canadien à fistule stmup ale, rendu celëbre par leq tra aux de W. leaumont, et les résultata nuxquels il est arrivé ne s'accordant pas avec quelques-uns des principes que j'ai émis dans les difförents ourrages que j'ai produits sur lo meme sujet, je mes suis d'aliord proposed de soumettre ce travail à un examen critique; puis m’étiut apurçu que, pour ótublir les bascs de mon argumentation, je derais cormencer par exposer le résumé do mes propres travaux. j’ai été ninsi cumbuit à dunner à cet article des développements plus considérables.
Dans le mémoiro dont il s'rgit, le docteur Smith se livre à l'examen de plusieurs questions relatives à l'action physiologique de l'estomac, qu'il considère comme n’ètant pas encere définitisement résolues. Parmi ces problèmes sont ceux qui concernent la nature de l'acide qui domine dans las suc gastrique ct l'influence de ce suc sur les divers groupes do substances alimentaires. Aujourd'hui, je n'aborderai que le premier point, reservant le second pour une prochaine communication.

Les trois principes auxquels on a tour à tour attribué l'acidité du suo gastrique sont, dans l'ordre chronologique, l'acide chlorhydrique, l'acide lactique et le biphosphate cie chaux En circonscrivant le debat entre cea troia principes, je me suis demandé s'il n'existerait pas quelque réactif capable le lea differencer tout d'abord. L'eau de chaux m'a semblé surtont propre à attendre ce but.
En effet, In chaux forme, comme l'on aait, avec les deux promiers a ides, des sels très solubles, tandis qu'elle produit, avec le biphoaphate calcaire ( $\mathrm{Pb} \mathrm{O}^{5}, \mathrm{Ca} \mathrm{O}$ ), du phosphate neutru ( $\mathrm{Pb} \mathrm{O}^{5}, 2 \mathrm{Ca}$ ), insoluble.

[^2]Or, si dans de l'eau de chaux parfaitement limpide, on vient à verser quelques gouttes de suc gastrique péalablement filtré, à l'instant même il se fait un précipité dunt la profortion nugmente à mesure que l'on ajoute une plus grande quantité de suc gastrique. Ce précipité est du phrsphate neutre de chanx, soluble, sans la moindre efferrescence, dans l'acide acétique, fournissunt de l'hydrogèno plosphoré, quand aprì: l'avoir desseché, puis rhaufé daus un tube aree un globule de potassium, on vient à l'h mecter, etc.

Cette expérience, toute simple qu'elle est, me semble dócisive. D'où proviendrait, en effet, le phosphate calcique précipité, s'il ne résultait pas de la neutralisation du biphosphate existant normalement dans le liquide ! On ne pourrait faire à cet égard que deux suppositions également insoutenables. La première serait de prétendre que le phosphate calcéque précipité s'est forméde toutes piàces, par la combinaison de la chaux ajoutée avec de l'acide phosphorique libre qui serait contenue daas le suc gastrique; or, je démontrerai plus loin que, sill existe de l'acide phosphorique dane ce liquide, il n'y est point a l'état de liberté absolue. La seconde supposition serait que le phosphate neutre précipité préexistait dans le liquide, qui le tenait en dissolution à la faveur les acides chlorhydrique ou lactique, lesquels, une fois neutralisés, yaisseraient deposer le sel neutre. Admettre une tello supposition serait se payer de mots vides de sens.

En effet, pour qu'un acide quelconque dissolve le phosphate de chaur, il faut qu'on en emploie une proportiou surisante $p$ ur neutraliser un équivalent de base: ce qui indique clairement que la dissolution qui s'opère n'est que la conséquence d'une décompositiou dans laquelie le abl neutre ayant perdu l'un de ces deux équivalents de base, est passé à l'etat de biphosphate. Lors done que du phosphate neutre de chaux est dissous par de l'acide chlorhyćrique, il se forme simultanément du biphosphate de chaux et du chlorhydrate de la mè̀ne base, ou, autrement dit, du chlorare de calcium inydraté, conformément à la formule suivante:
$\mathrm{PhO} \mathrm{O}^{s}, 2 \mathrm{CaO}+\mathrm{ChH}=\mathrm{PhO}^{s}, \mathrm{CaO}+\mathrm{ChCa}_{4} \mathrm{HO}$.
Pareille reaction aurait lieu óvidemment avec l'acide lactique, à cela près qu'au !:eu de chlorure de calcium, il se produirait du lactate de cisaux; mais, dans tous les cas, le principe acide qui dominerait dane le liquide serait toujours le hiphosphate de chaux (1.)
(1) Il eat raiment étrange de vo's figurer l'unà côté de l'autre, dans certalnes analyses du suc gastrique, du phosphate neutre de chaur et une proportion équivalente d'aside chlorhydrique ou d'acide lactique, comme si l'scida phouphorique pouvait conserver les denu équivalents de base en présence d'acide, dont l'énergie ne le cède on riend la sienne, dans les conditions ordinairer de tempórature et de preasion.

Il est encore une autre objection qui a été faite, à propos de l'expérience précédente, à "existance do biphosphate calcaire, comme élant le soul principe acudificateur du sue gastrique, la voici: Si, après avoir précifité de l'cau de chaux avec du auc gastrique, on verse quelques gouttes du liquide trouble qui en résulte dans un grand excès du mème suc. ${ }^{\text {o }}$ précipité se redissout, ce qui, dit-od, ne saurait avoir lieu avec un biphosphate. C'est une erreur; car si l'on reproduit l'expérience avec une solution étendue de biphosphate de chaux obtenue en faisant réggir à freid de l'acide chlorhydrique sur du phosphate neatre de chaux en excès, c'est-à-dire dans les conditions où le biphosphate du suc gastrique parait se produire dans l'économie, comme nous le verrons plus loin, les mémes effits se reproduisent identiquement. Quand à la raisun chimique du phénomène, on compread que ce n'est point ici le lieu do s'ea oceluper, le fait brut, si je puis m'exprimer ainsi, suffisant pour répondre à l'objection.

Mais ce n'est pas sculement à l'état do biphosphate que la chaux se se trouve dans le suc gastrique ; clle $y$ est aussi, en preportions équivalentes, à l'état de chlorurc, ainsi que ju l'ai démontré silleurs (2). Du reste, l'existance de ce sel dans le suc ghat, ique est aujourd'bui athime par tous les chimistes, parmi lesquels jo citerai particulièrement Braconnot, qui l'avait signaléc dans du suc gastrique de chien, que je lui avais remis moi-mème, et Berzélius, qui, dans une lettre quil u'a fait l'honneur de m’adresser, déclare en avoir trouvé dans du suc eastrique que io docteur Beaumont lui avait envoyć, et qui provenait de ce même Canadien dont il est de nouveau question.

Ces deux pincipes admis, il nous serait maintenant facilc de nous rendre compte des expériences rapportées par lo docteur Smith, et de démontrer que, loin de contredire mon opinion, elles viennent au contraire la conflimer.

Dans une première expérience, l'autcur distille du suc gastrique, et constate que les premiers produit. recuelilis dans le récipient sont neutres rux papiers rénettifs et sans action sur l'azutate d'argent: tandis que, vers la fin de l'opération le liquide qui prase est acide et donne avec l'azotate d'argent un chlorure bien claractérise; preuve évidente qu'il s'était degage un peu d'acide chlorhydrique al l'état de liberté. Ce fait n'est pas nouveau, il confimne ce qui arait déjà été annoncé par plusieurs chimister, notamment par Prout, Bracounot, MM. Bernard et Barreswil, (i par moi-mêne, dans la ménoire précité. Du reste, aveo la piupart

[^3]des chimistes actuels, il reconait que l’acile chlorbydrique dégage ne préesistat pas dans le liquide à l'ésat de liberte, mais provient de la reaction de lacide qui domiue dans le suc gastrique su, les chlorures quoll renferme. A lappui de cette opinion, qui anjourd'hai ne trouse, pear ainsi lire, plus de contradicteur, il ate la judhciense remarque faite par M. liarreswili, à savoir, que le suc gastrigue drune un précipitó abondatat arec l'acide uxalique, ce qui ve saurait ario lica dans un tiquile qui contiendait la moindre irace dacide chlorhgilsique.

La présence de lacide chlorbydrique libre dans le sue gastrique normal se trouvent ainsi écartée, le dèbat se trouve, en q.esl ${ }_{1}$ ue sorte, restreint entre lacide lactique ct l'acide phosphoique pha ou moins libre. Pour décider la question, le ducteur Smith fit lexperience suivante:

Exr. V (Memoire cite, p. 150).-Che portion de suc gastrique fut bouilic legerement dans une corme. Le lipride distillé contenait des traces dacide chonhydrique libre. Le résidu, caaniné au papier, était plus acide quawant la distilation. Ou le fit aloss evaporer avee soin et on lexamind de temps en temps, ce qui fit constater que son acidité s'augn nta tant qu'il reata liquile. On clauftia beallicoup plus, de façon à desécher, mais sans cabobirer la matione ; en la mouillant avec de l'eau, on la truava eacore beaticoup plus icide. On chaulfa de noaveau, de maniure à ariver à un commencem nt de carboni-ation, et alors on hume ta et on troura que d'acidité avait niminué. La même expérience répétic et poussée jusqu’à une calthonisation avancee, montra, lorsqu'on mouilla le résidu, une acidité encore moindire: ct, en chauffant encore juaqu'a ce qu'il n'y cût plus d'oleur empyrenmatique, on troura que toute acilité azait dicparu.

Le ceq faits. l'anteur se cruit en droit do ennclure: $1^{0}$ que lacide qui a decomposo las chloures était fixe relativemelt à l'acide chlorlydrique, ce qui est parfaitement exact; 20 qu'ayant dispara par laction du fen, il der ait ètie de nature organique: co qui est une erreur. En effet, hous avons su que le suc grastriqne renferme simultanément du biphospl ate de chaur et un ciblorure de calcium, en rapport d'équivatento $=$ on $^{\text {n }} \mathrm{O}^{s}$, $\mathrm{CaO}+\mathrm{ClCa}+110$. Cela étani, duprès les principes les plus élémentaires de la chimie, on duit se représenter le biph sphate calcique comme tendant incessamment à reprendre l'équivalent do base que l'acido chlorhydrique tient, pour ainsi dire, en échec, et qui lui serait nécessaire pour passer à l'état nieutre, beaucoup plus stable. Il y a donc entre le sol acide et l'acide chlorlydriqne une aorte de lutte, qui se termine al l'avantage du premier, qui est fire, lorsque, l'application de to chaleur, la concentration du liquide, et mème par la simple soustraction de la pression
atmosphérique, on augmente la tendance de l'acide chlorhydriqus a se valatiliser ; de sorte quil ne reste plus, en défnitive, que du phosphate de chans parfaitement nentre (1).
Tuntefois, pour que cette explication soit legitime, il fant qu'au monent où, par l'opphication de la chalcur, l'acilité du résidu disparât, les vapeurs qui e'éechappent renferment de l’acide chlohydrique libre. Or, d'aprés l'auteur, il nen serait pmint ainsi. Dans l'e epérience $\Pi 1$ ( 1 . 149), il rapherte qu'arart chauffó du suc gastrique dane une capsule de porceline, jusqu'ì l'incineration, il vit le résiüu devenir de p!us en plus acide. à mesure que la concentration augmentait mais que la rapear qui s'échappa ne domua aucuue manifestation d’acidité.
Il y a ici une erreur matericlle qui provient cie la manière dont on a operé. Comment, en effet, eùt-on fuy constater la trace d'acide qu'emportaient avec elles les vapeurs diverses pui s’chapmient de toute la surface d'une capsule ere porclaine ?-Voici comment l'expérience doit ètre faite. Après avoir cuncentré un peu de suc gastrique dans une capaule, introduisez le rénidu dams un tule de serre fermé par un bout. Achevez alors la des-riccation à l'aide d'ane chaleur ménagée. Lorsqu'elle serat terminée, essuyez exactement aree du coton la partie superizure du tube qui a étó atteinte par lea projedtions du liqnide ; puis introduisezy une laniëre de papier bleu de tournesol. Chauffez alors de noureau jusqu’à déorganisation compléte, et vous verrez le papier rougir do la manière la plus manifeste, quoique les vapeurs ammoniacales qui se dégagent en abondance aieat dú en neutraliser une partic.
On lé voit, nun-seulement ces faits dót:aisent par le base l'argumentation du Dr. Suith, mais ils viemnent mème protester contre son opinion Si, en effet, l'a ide qui prédomine dans le suc gastrique ètnit de nature organique, dès le moment où il a été réduit à l'état de charbon, il devrait cesser d'agir sur les chlorures, et les vapeurs qui se dégagent loin d'être acides, devruient manifester une réaction alcaline, à raie on du carbonate d'ommctioque ongendre par la destruction des matic̀res acitées, qui font partie de ce fluivio.
En résumé, les expériences que nous venons de rappo:ter aboutissent donc à dómontré que l’acide la ique, pas plus qu'aucun autre acide organique, ne constitue le principe acide du tluide spécial sécrété par l'estomac. Il est, d'alleurs, digne de remarque que, bien que l'acide lactique soit aujourd'hui genéralement considéré comme la cause plus

[^4]ou moins exclusive de l'acidité dusuc gastrique, d'une part, cucun antear, que je sache, n'est réllement parvenu à en extraire de ceflifide une quantité appréciable, malgré sa tendance à fotmer avec certaites bases des sels cristallishbles, faciles à caractériser, et que, d'autre part, un grand 4 ombre de chimistes éminents, entre autres Braconnot, qui s'ètait spécialement ocupé de l'acide lactique, n'ont jamais pu en décourrir la moindrc trace dans le fluide en question.

Lacide lactique se trouvant done aussi hors de cause, si jo puis n'esprimer ainsi, ia ne nous reste plus à examiner que l'acide phosphorique plus ou moins combiné à la chaux. Or, indépendanment des faits qui précèdent et qui tous concordent pour manifester le biphosphate calcaire comme étant le seul principe acidificateur du suc gastrique, j'en rapporterai quelques autres qui, bien qn'accessoires, n'en apportent pas moins leur contingent de preuse en faveur de cette opinion.

On sait que l'acide phosphorique orsinaire, cécst-à-dire à trois équivalents d'eau, et les phosphates acijes dans lesquels un de ces trois equivaleuts d'ca: est ramplace par un équivalent de base, ne partagent qu'avee l'acide acetiqe, dont il ne saurait être ici question, la propreété de ne pas coaguler l'albumine; tandis que l'acide chiorhydrique, mais surtont l'acide lactique, opèrent très bien, commo l'on sait, cette coagulation. Or, il est certain que le suc gastrique ne coagule poiut l'albumine, même à la te.rpórature de 38 à 40 degrás. Du re.te, furur m’assurer que ce défaut de coagulation ne tient point, comme on l'a prétendu, au legré de dilution sians lequel se trouve 'e principe acide dans le suc gastrique, j'ui' fait l'expérience de la mauière suivante :

Agant déterminé, au mojon d'une solution de soude normale au disième, titrée d'après la móthode de M. Moore, le degró d'acidité du suc gastrique, j'ai acidulé do l'cau, avac les acides chlorhydrique ou lactique, au mème degré, c'est-̇̀-dirs de façon qu'un volume déterminé de liquide exigeat pour ea complète neutralisation la même quantité de soude qu'un volume semblable de suc rastripues: or, tandis que ce dernior était sens action sur les liquides albumiueux, les deux autres solutions y produisaient une coagulation manifeste.

Il est encore une autre particularité qui vient à l'appui de mon opinion, et sur laquelle je crois devoir m'arreter, d'autant plus que, d'une part, j'surai quelques rectifications de faire our la manière un pell trop absolue dant je l'avais jusqu'ici prósentéo, et que, d'autre part, on peut en déluire quelques conséquences pratiques relativement à l'action du suc gastrique sur certains médicaments de nature minérale: je veus parler de la propriété commune au principe acide du suc gastrique et au biphosphatede shaux de ne pouvoir ètre neutralisé par le aarbonate de chaux. Ce fait,
que j'ai fait convaltre le premier, me semble tout d'abond d'une grande valcur pour démontrer leur icentitó. Ajourd'hui, plus que jamniz, je persisie dans cette manière de voir ; seulement, ju ferai connal re quelques rectifications qui répondent péremptoitement à certaines objections qui m’ont été faites relativement à la portée de cette expérience, remarquable entre tontes par sa simplicite.

Dans les précédents travaux que jai puhliés sur se sujet, j’avais dit qu'on peut faire bouillir indéfiniment lo sur gàtrínue, comme aussi une solution $\int^{\text {hins }}$ on moins étendue do biphaphite de daux avec du carbonate de la meme base, en excies, sans race celui-ci soit attaqué. Cette assertion était troj' absolue; car, s'il wit vrai qu'après plusieurs heurea d'ébullition, le liquide conserve encore une acidité dé phus évidentes, il ne l'est pas moins, comme jo l’ai reconnu dupuis, que cette acilitó va en diminuant de plus en plue, a neevere que l'a tion de la chaleur augnente et se prolonre : ce qui prouve incoutestablement que le carbonate de chaur a étó attaqué. Du reste, je the suis ansuré du fait de la manière suivante: M'étant procuré une enrtaine quintité de sace gastrique sur un chien à fistule, j'en déterminai le degré d'acilité an moyen d'une solution de soude, puis apres $\ddot{z}$ avoir ajon'é du cubonate de chaux pur (spath d'Islando pulvérisó), je maintiens le liquile à l’èbullition pendant une domi-heure environ; puis, l'iyant lis*é refroidir, je téterminai us nouveau son degré d'acidité, et ucurai qu'il avait motablement diminué. Après une nouvelle Jemi-heure d'ébullition, il avait perdu près moitie de son aciditó primitive et il était devenu trubble par la fumation d'une certaine quantité de phosphate neutre de chaur. I' -st à peine nécessaire de faire observer que, dans ces experiences, avant de prendre le degre dacidité resté au suc gastrịue réduit par l'ébullition, j’arais soin de le ranener à son volumo primitif par l'adlition d'u:ce quantitó suffisante d'eau distilléc.

Du reste, il est facile do se rendre compto de ce qui se passe en pareillo circonstance. Quand on met le sue grastrique, qui ruferme, disons-nous, du biphosphate de chaux, en contact avec du carbonato (alcaire, il se manifeste la même tenc nce à la décomposition dont j’hi parlé eu exprsant la réaction qui s'opère, sous l'irfluence de la chaleur, entre ce biphosphate et les chlorures naturellement contenus dans le sue gastrique. Seulement, comme l'acide carbonique tient moins à sa base calcaire qua l'acide chlorhydrique, c'est le carbonate qui est décomposé; au lieu du hlorure de calvium, pour fuurnir au phosphate l'équivalent de base qui lui est nécessaire pour passer à l'état neutre, tandis que l'acide carbonique se volatilise. Au surplus, la même expérience répétée avec une solution artificielle de biphosphate de chaux dans l'eau distillée, donne
a7ec le carbonate calcaire des résultats sensiblement identiques, qu'ii y ait ou non un chlorure an présence dans la liqueur.

J'ai de méme constatt que le sue gastrique, comme aussi une solution tetendue de bipuosphate calcique attaque lentement, même à la température ordinaire, mais micux à $40^{\circ} \mathrm{C}$. la magnséie carbonatéo et le fer métallique, surtout quand il est dans un grand etat de division, ainsi qu'il arrise au fer réduit par l'hydrogène. Il y a alors un frille dégagement d'hydrogène, qui provient de liadécomposition de l'eau. Dans tons les cas, l'acidite du liquidu s'affabilit, et il se forme an précipité plus on moins abondant de phosphate nentre de chaux mélangé è du cliosphate de magnésie ou de fer, dont un faible partie senlement reste en dissolution.

On le roit, ces différentes particularités peuvent être d'un certain intérèt pour la thèrapeutique; mais, tout en apportant quelques restrictiens au principe que j'avais d'abord posé d'une manière trop absolue, loin d'infirmer les conséquences que j'en ai décuites relativement à la nature de l'élément acidificateur du suc gastrique, elles fournissent uus nouvelle preuve en faveur de mon opinion, puisqu'elles sont communes à ce fluide et au biphosphate de chaux.

Il est eurore un dernier fait sur lequel je veux fixer l'attention. Dans le mémoire dont j'ai déjà parlé, j’avais cru pouvoir arriver à la démonstration direct de l'acide phosphorique plus on moins libre dans le sue gastrique de la manière suivante: Après avoir précipité le phosphate calcaire du suc gastrique avec de la potasse en léger excès, j’ai recherché, par les procédés connus, dans le liquide filtré, la présence du phoophate de potasse, qui semblait devoir en résulter, conformément à la formule suivante:

$$
2\left(\mathrm{Ph} \mathrm{O}^{s}, \mathrm{Ca} 0\right)+2 \mathrm{KO}=\mathrm{Ph} \mathrm{O}^{s}, 2(\mathrm{Ca} 0)+\mathrm{Pb} \mathrm{O}^{s}, 2(\mathrm{KO})
$$

En effet, j'étais parvenu à constater des traces de ce phosphate alcaliu qui me semblait, à ion droit, si démonstratif. Toutefois, depuis la publication de ce travail, la mème expérience a été essayée pas d'autres auteurs, notamment par M. le docteur Schiff; or, dans certains cas, on a trouvé un peu de phosphate alcalin dans la liqueur filtrée après sa neutralisation par la potasse, $\in t$ d'antres fois, on n'a pu en décourrir la moindre trace. Moi-même, ayant repris ces essais, j’ai obtonu des résultats non moins variables. D'où previent cette difference? L'auteur que je viens de citer ayant remarqué qu'il obtenait plus particalièrement du phosphate alcalin avec du suc gastrique dont la sécrétion avait été provoquée par l'ingestion des os, a cru ponvoir en conclnre que lorsque ce fluide donne un phosphate alcalin par l'addition de la potesse, cela piorient de ce que les os, attaqués par l'acide qci y prédomine, auraient
produit du biphosphate de chaux, qui n'eristait pas diais le sua gastriqne à l'état normal. Nous ne tarderons pas à veir que cette assertion est chimiquement inadmissible.

Voici, de mon coté, rexplication que je crois pouroir donner de ces faits. Il existe, avons-nous dit, du chlorure de calcium dans le auc gastrique, en inême temps que du biphosphate de chaux. Or, ea codmettant que, par l'addition de l'alcali, il so soit formé du phosphate neutre de potasse, ce seh, ronconizant du chlorure de calcium, se convertit à son toar en phosphate neutre de chaux et en chlorure de sodium, conformément è la formule suivante:

$$
\mathrm{Ph} 0^{s}, 2(\mathrm{KO} 0)+2 \mathrm{Cl} . \mathrm{Ca}=\mathrm{Ph} 0^{\mathrm{s}}, 2(\mathrm{Ca} 0)+2 \mathrm{Cl} . \mathrm{K} .
$$

De sorte que, en réalité, la potasse ajoutée au suc gratrique précipite immédiatement, à l'état de phosphate de chaux neutre, tout l'acide phosphorique qu'il renferme, absolument comme l'eau de chsux. Toutefois, poar qu'il en soit ainsi, il faut que les deux sels calcaires se trouvent dans ce fluide en proportions équivalentes; autrement, si le biphosphato prédominait, on devrait retrouver dans le liquide filtré une proportion plas ou moins corsidérable de phosphate alcalin. Toute la question se réduit donc à savoir si les deux sels dont il s'arit sersient susceptibles d'éprouver què̀ques variations dans leurs proportions respectives. Mais d'abord voyoris si l'un des acides dont on a adnis l'existence dans le sue gastrique pourrait faire prédominer le biphosphate en attaquant les os ingérés davs l'estomac.

Supposons un instant que la partie terreuse des os soit uninuement formée par du phosphate calcaire à deux équivalents de base, si elle est attaquée par de l'acide chlorhydrique ou par de l'acide lactique, pour un équivalent de biphosphate de chaux produit, il se formera un équivalent de chlorure de calcium ou de lactate de chaux. Or, il est évident, d'après ce que nons venons de voir, que, lorsque la liqueur qui contient ces denx sels viendra à etre neutralisée par la potasse, il ne restera plas en dissolution un atome de phosphate alcalin. Il y a plus; c'est que comme, d'une part, le phosphate des os est plus basique que nous ne l'avons supposé, et que, áautre part, une certaine proportion de carbonate de chaux s'y trouve mélangée, ces deux canses réunies concourent à faire prédominer le chlorare ou le lactate sur le biphosphate, et à prodare ainsi un effet opposé à celui qu'on annonçait.

La n'est donc point l'explication cherchée. Pour moi, je crois la trouver dats la théorie suivante que j'ai émise sur l'origine probable dea deux sels caloaires qui se rencontrent simultanément dans le suc gantrique.

Après avoir fait l'analyse quantitative da ce flaide (1), une des considérations qui dee frappèrent le plus, fut que ces sels y étaicnt en proportion telle qu'il y avait autant de base dias l'un que daus l'autre; ce qui semblait indiquer quils avaient pris naissance par la réaction de l'acide chlorhydrique sur du phosphate neutre de chaux. Or, pas plus que le biphosphate de chaus, l'acide chlorlyyúrique ne suurait exister à l'état de liberté dans le sang, qui est alcalip; mais il s'y rencontre abondamment combiné à la soude. Le chlorhydrate de soude (chlorure de sodium hydraté) est, en effet, de tous les sels, celui qui se trouve le plus abondamnient répandu dans l'économie animale. Il cst done trés probable que ce sel est decomposé, dans les parvis de l'estomar, en acidu chlorkydrique, qui, se trouvant, ì l'état naisant, en présence d'an excès de phosphate neutre de chaux (dont l'existence dans le saug, probablement à l'état de suspeusion, est incontestable), détermino la furuation des deux sels calcaires du suc gistrique; tandis que la soude restée dans le sang va sans doute contribuer à l'alcalinité de certaines sécrétions, teiles que la salive, la bile, etc.

Cule théorie étant admise, je serais très disposé à penser que, si les deux sels en que-tion ont pris simultanément naissance en proportions équivalentes, il pourrait ne pas en être absolument de même pour leur élimination; de sorte que, dans certaines circonstances, Je biphosphate, doat l'intervention dans le suc gastrique parait bien plus importane que celle du chlorure, serait alors eliminé en proportion un peu plus considérable que ce dernier: ce qui expliquerait la prédominance de l'acide phosphorique que la potasse a parfuis démontré dans le sue gastrique.

Ce n'est là, il est vrai, qu'une hypothèse, qui ne saurait encore prendre rang parmi les vorités rigoureusement démontrés; toutefois, si des expériences ultérieures venaient la confirmer, ce serait une nouvelle preuve à ajouter aux précédentes, pour démontrer qua le principe acido da suc gastrique ear bien exclusivement le biphosphate de chaux.-Journal de la Physiologie de Chomme et des anim.ux.


Diet in Phthisis. By M. Campourllon.-The ideas formerly entertained regarding the nature of Phthisis, kave nor given way to others of a more sonnd and better established character. Tuberenlisation of the lung, so lung considered as a mere local disease, is now recognized as gencral or constitutional affection-a diathesis having its elements, so to speak, througbout the wholo system, and onl. lecalizing itself in the lungs when circumetances iavorable to sueh an oucurrence arise. Such a mode of origin being admitted, if not demonstrated as being that of tubercle, we are coneequently called apon to inquire what means are most likely to modify or counteract is ; and to the particalar kind of aliment adopted by the individual has been attached the greatest amount of importance $: n$ this respect, as being the most energetic of all those infuences modifying that condition of the urganism associated with this disease.
M. A. Latour, who bas to a great estent appropriated this question of. dietetics, has recently laid down rules for the regulation of aliment in tubei cular disease, both as a prophylactic rad curative mesus of trealment; and impressed with the analogies subsisting between syphilis and scrofula in general, has come to the conclusion, that a regimen of a tonic nature is aqually suitable for both of those affections. In this way, rich soups, anima: food roasted or grilled, ofd claret, goat's milk salted, etc., mainly constitute and limit the regimen he prescribes in puimonary cases of this kind. M. Rufz is somewàat bolder in his advice to such patients: "Enjoy life, go out or come in, on horseback or on foot, as you please," says he, "but go." Such confident treatment could only be justified by success; and success in this way does not appear to have been wanting to M. Rufz, who, in support of his doctrine, adduces two remarkable examples. Dr. Norverre a confirmed subject of tubercle, on seeking a warner climate in the West India islands, was there necessitated to be on horseback night and day-exposed alternately to a burning sun and henvy rains-in a word, to the very extremes of atmospheric vicissitudes. During his whole residence there, however, he ate and drank well, cured his phthisis, and died of dysentery twenty-five years after his arrival at Maftinico.
M. Bidoult, another medical man doomed as laboring under phthisis, also sought to reēetablish his health by a residence in the same place; be followed the mode of life of his countryman Norverre, entering into all the excitements and good living to be had. How this intrepid viveur ended his days, M. Rufz does not mention.

A diet of matton chops and generous wines, safs M. Brichetean, again may no doabt be beneficial in certain cases of tuberculosia, bot the digestive
system in such persons must not bave lost its energy. "We cannot, sufficiently disapprove," says be, "of that advice which does not hesitate to iccommend substantial food, tonics and excitants, to those ubfortunate patients who already ean scarcely digest milk or soups, and who are reduced by colliquative diarrhœa. Among patients treated in this manner, we can adduce one instance where the alimentary canal was so injured by perseverance in a reginen of this kind, that death became accelerated, and was due to rapid tuberculation of the intestiner, rather than softening of the tubercular deposits at first formed in the fungs."
M. Andral, in his additions to the "Treatise of M. Laennec," when speaking of individuals affected with tubercle, and in whom a tendency to inflammatory conditions exist, says: "In these rases a milk diet is of service;" while, on the other hand, in reference to the more asthenic examples he says: "Among sucb cases the milk diet is contra-indicated, and if it is attempted, it soon has to be laid aside, as the health suffers; and the time shortly comes when such diet ceases to nourish." Thus, according to the judicions observations of M. Andral, two different morbid states proper to phthisis mnst regulate the aliment in this disense; far from being a uniform and invariable character, the therapeutique of tuborculosis differs so much as to be the cause of great difficulty in its treatment, and in this way, however much authority M. Latour's name may possess, we cannot believe that generous or stimulating diet and salted milk should be the best method of treatment in al. cases of phthisis.

The .unic method of treatment in this disease is by no means new; it was recommended by Morton, Portal. Raullin, etc., but by them only in particular cases. This method, no dout, may be of service in cases where the patients are scrofulous or cachectic, or born of taberculous parents. and where it is desirable to alter the constitution. But we know that the lining membrane of the stomach, partaking of the morbid condition exisitng elsewhere, may become atrophied or hypertrophied, ulcerated or softened, and in that way give rise to dyspepsia of a most intractable character, and rejecting all hinds of regimen-not excepting that of an exciting quality. Analogous disorders attack the intestinal canal, and all aliment in such circumstances becomes a canse of diarrhoes and debility. Phthisis may be apyretic, but is more frequently accompanied by fever, and sometimes by hæmoptysis, because the tubercles in the lang are only one result of a cause which induces an inflammatory condition beyond them, and extending to other organs, which become ${ }^{1}$ rritated, congested, and inflamed. The usual custom is to $\omega$ mbat this state by an unexciting regimen; bat, according to M. Latour, this is a
mistake. Now, can the proper mode of treatment consist in stuffing such patients with soups, animal food and wine? The fact is that this procedure may answer well enough in such cases of scrofula as require support and stimulation and in whom the leucophlegmatis conlition amounts to caehexia; but in pulmonary cases what is required in general, is a regimen of a mild and refrigerent description.—Gaz des $\boldsymbol{H} \dot{J} \rho$., and Edin. Med. Jour.

On the Treatment of Neuralyia by Electricity. By J. Altande, M. D.
From the time when Sarlandière and Magendie first made known their observations on the therapeutical use of electro-puncture, galvanism bas been frequently and in various ways administered to slieve sach neuralgic pains as defy other therapentical proceedings. -he practice of electro-punctare being connected with more or less annoging inconveniences, viz., in many instances very violent pain daring the operation, and afterwards inflammation and suppuration in those tissues into which the needles have been thrust, other modes of applying galvanism have been naturally resorted to. Drehenne racommended to produce a strong revulsion by practicing faradisation of the skin, by means of metallic brushes conveying a very powerful electro-magnetic current to the paiuful points; but the pain produced by this proceeding is, according to Duchenne ’imsolf, atrocious, and in a certain number of cases the operation has i.nt been accompanied with any success. Another, and in my opinion, th ' better way, is to send an induced current, of middling intensity, for a certain time through the affected nerve, by means of moistened conductors; one poie being placed at a point where the trunk of the nerve may be reached nearest to the nervous centres, the other one on any of the terminal branches of the nerve. This mode of electro-magnetic treatment, which is derived from the physiological fact that by such a proceeding any nerve in its normal state may be made more or less insensible, I have found the least inconvenient and the most efficacions for some forms of neuralgia. In fact, tho pain produced by it is very insignifiant, and hardly worth mentioning, when compared to the often excruciating neuralgio pain againgt which the proceeding is instituted. On the other hand, I have seen the method alluded to answering in cases where both electro-puncture and faradisation of the akin had been resorted to with little or no sucress. From a number of patients I have treated for neuralgia, two cases are subjoined to illustrate the therapeutical proseeding.-Med. Times and Gazette.

# The ittloical Chbronide. 

LICET OMNIBCS, LICET NCBIS, DIGNITA TEM ARTIS MEDICE TUERI.

Qualificatione for Army Miedical Apponsments.- We publish the following information conceroing the rank of army medical officers as we believe it will be interesting to our readers generally, and particularly beneficial to such young geatlenen as may be intending to become candites now or hereafter for assistant Surgeoncies-The present Direcior General is T. Alerander Esq. C. B. who was recently in this city as head of the biauch of the Department in this Command.
The name of no gentleman can be placed on the list of candidates who does not possess a diploma il surgery, with the following testimo-nials:-Eighteen months' hospital ; twelve months' anatomy; twelve months' practical anatomy ; six months' physiology; twelve monthen eight months' clinical surgery, twelve months' practice of physic, or six months' practice of physic, and six of general paihology; eight months' clinical lectures on ditto, the same as required in eurgery; twelve months' chemistry: six months' practical chemistry; three months' botany ; three months' materia medica ; three months' practical phe.macy, or apprenticeship; three months' natural history; three mou vis' mdwifery ; three months' practival midwifery ; one course natnral philosophy; one course logic. Candilates must be unmarried, not beyond tirenty-five years of age, nor uader twenty-ont gears. The certificate of the teacher of practical anatomy must state the number of subjects or parts dissected by the pupil. All candidates for medical appointmenta are required to be conversant with Cullen's Nosology.
Toe following warrant was issued on the lith October:-

## Victoria R.

Whereas we lave taken into our consideration the recommendations of the commissioners appointed by our authority to enquire into the regulations affecting the sanitary condition of our military forces, and the medical treatment of the sick and wounded of our army, our will and pleasure is that from and after the date of this warrant the following rules shall be establisbed for the future admission, promotion, and retirement, and the pay, half-pay, relative rank and allowances of the medical officers of our army, and that by these rales our Cannmander-inChief slall govern himself in recommending officers for admission, promotion, ind retirement.

1. The grades of medical officers in our army shall be fuar in namber 1-viz:-
(1) Inspector-general of hospitals.
(2) lleputy inspector-general of bosnitals.
(9) Staff or regimentail surgeon, who after 20 years' full-pay service in any rank shall be styled surgeon-major.
(4.) Staff or regimental sssistant-sargeon.
2. No candidnte shall be admittod to the competitive examination for a commission in the Medical Department of our army who does not possess such a certificate or centificates as would qualify a civilian to practis emediciue and surgery; and no such candidate shall receive a commission 8.8 fessisant-surgeon until he shall have satisfactorily passed 'an examination in militury medi, ine, surgery, and hrgiène, after attending the authorized course in a general military hospital.
3. No assistant-surgeon shall be eligible for promotion to the rank of surgeon until he uslatl have passed such examination as our principal Secretary of State for War may require, and shall have served on fullpay with the commissicn of aseistant-scrgeon for tive years, of which two shall have been passed in or with a regiment.
4. A surgeon whether on the Staff or attached to regiments, mast have served ten years in the army, with a commission of full-pay, of Which two must have been passed with the rank of surgeten in or with a regiment, bufore lic will be eligible for promotion to the rank of deputy inspector-general of hosp.tals.
5. A deputy inspector getueral of hospitals must have served flve years at home, or three abroa $l_{\text {. }}$ in that rank before he shall be eligible for promotion to the rank of inspector-general.

In cases, however, of emergency, or when the $\ldots .$. . f the service renders such alteration desirable, it shall be competent for our Secretary of State for War to shorten the se eral periods of service above-mentioned, in such wamner as he shall deem fit and expedient.
6. Assistant-burgeons shall, as a general rule, be promoted to the rank of surgeon in the order of their seniority in the service, unless unfit for the discharge of their duties from physical or professional incompetence or misconduct. In cases of distinguished service, however, an assistantr sargeon may be promoted without reference to seniorits; and in such cases, with a view tc insure the responsibility attaching to an appointment made out of the regular course of promotion, the recommendation, in which the services of the officer shall be detailed, shall be published in the General Orders of the Army and in the Gazette in which his promotion appears.
7. All promotion from the rank of surgeon to that of deputy-inspector and from the rank of deputy inspeetor to that of inspector, shall be given by selection for abjility and merit; and the grounds of such selection shall be stated to us in writing, and recorded in the office of our Com-manderin-Chief, the selection being made from the whole rank of surgeons, whether styled surgeons or surgeon-majors.
8. The rates of pay of the medical officers of our army shall be in accordance with the following schedale :-

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | £ s.d.' $£$ s. d. | f s.d. | 3. d. | d. | d. |  |
| Inspector-General....... | $\begin{array}{lllllll} \\ 2 & 5 & 0 & 5 & 0\end{array}$ | $\left\lvert\, \begin{array}{lll}2 & 0 & 0\end{array}\right.$ | - | - | - |  |
| Deputy-Inspector-General | 11401100 | 1800 | - | - |  | - |
| Surgeon-Major... ........ | - ${ }^{1} 501$ | 120 | - | - |  |  |
| Surgeon..... | - | - | 180 | 1500 |  |  |
| Assistant-Surgeon ...... | - - | - | - | 130 | 11 | 10 |

9. In auldition to the pay of their ranks, officers at the head of the medical departmen on foreign stations shall receive allowances at the undermentioned rates, when serving under the following circumstances.

If with an army in the fild of 10.000 men or upwards, 208 per day.
If with an army in the fichd of 5,000 men or upwards 15s. per day.
If with an army in the field of any less number, $10 s$ per day.
10. After the date of this warrant every medical officer placed on half-pay by reduction of eitablisiment, or on the report of a Medical Board, in consequence of being incapacitated by reason of illhealth. caused by wound a, or brought on by the discharge of bis duties, shall be allowed the half-pay to which his period of full pay service may entitls him, according to the following schedule :-

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Inspector-Gea | f s.d.  <br> 1 .7 | $\overline{ \pm 8 . d .}$ |  | s. d. | s. d. | s. d. |  |  |
| Deputy-Inspector-General. | $1{ }^{1} 56$ | 126 | $\mathrm{c}_{1} 10$ |  |  |  |  |  |
| Surgeon-Major.. | - | 018 | 00166 |  |  |  |  |  |
| Surgeon. |  |  |  | 136 | 110 | - |  |  |
| Assistant-Surgeon. | - | - | $1-1$ |  | 100 | 8 |  | 6 |

11. With a view to maintain the efficiency of the service all medical officers of the rank of surceon-major, surgeon, or assistant-surgeon shall be placed on the retired lisi when they shall lave attained the age of 55 years, and all inspectors-general and deputy inspectors-general wheo they shall have attained the age of 65 years.

Officers thus superannuated shall be entitled to the rates of half-pay stated in the preceding schedule.
12. Every melical officer who shall have served upon full pay for 25 years and upwards shall have the right to retire upon half-pay, at the rate of seven-tenths of the daily pay be was in receipt of when thus retiring, provided he shall have served three years in the rank fromi which he retires, or shall have served in any rank for 10 jears in the

[^5]colonies, or five years with an army in the field. Bat if he shall not have complied with any one of these conditions he shall be entitled only to half pay at the rate of seven-tenthe of the daily pay he was in receipt of before his last promotion.
13. Every :nellical officer thus claiming to retire must give six months' notice to the head of his department of his intention to claim this right prior $t \cdot$ his being ailowed to retire; and no medical oflicer shat have a right to give such notice after he shall be under orders to proceed to any foreign station, until he shall have served at such station for one month.
14. If a medical officer is placed on Lalf-pay from any other cause than those hereinbefore name $l$ he shall only be allowed a temporary rate of half-pay (not exceding the rates stated in clause 10) for such period and at such rate as shall be assigned to him by our Secretary of State for War, on a consideration of the length and character of the services rendered to the public by such medical officer.
15. On reduction of establishment the surgeon and assistant-surgeon who are junior in the ranks shall be the first reduced, and on restoration to full pay the reduced officers, who are senior in their rank, shall be the first restored.
16. The relative rank of the medical officers of our army shall be as follows:-

Staf or regimental assistant-surgeon as a lieutenant, according to the dath of his commission ; and after six years' full-pay service as captain, according to the date of the completion of such service.

Staff or regimental surgeon as major, according to the date of his commission; and surgeon-major as lientenant-colonel, but junior of that rank.

Deputy inspector-general of bospitals as lieutenant-colonel, according to the date of his commission; and after fise years' full-pay service as deputy inspector-general, as colonel, according to the date of the completion of such service.

Inspector-general of hospitals as brigadier-general, according to the date of his commission, if with an army in the field, or after three years, full pay service as inspector-general, as a major-general, from the date of his joining such army in the field, or according to the date of the completion of such service.
17. Such relative rank shall carry with it all precedence and advantages attaching to the rank with which it corresponds (except as regards the presidency of Courts-martial, where our will and pleasure is, that the senior combatant officer be always president), and shall regulate the choice of quarters, rates of lodging money, servants, forage, fael, and light, or allowances in their stead, detention, and prize money. But when a medical officer is serving with a regiment or detachment, the officer commanding, though he be junior in rank to such medical officer, is entitled to a preference in the choice of quarters.
18. Medical officers shall be entitled to all the allowances granted by our warrant of the 13th Jaly, 1857, on account of wounds and injuries received in action, as combatant officers holding the same relative ranke.
19. Their families shall in like manner be entitled to all the allowan-
ces granted by our warrant of the 15 th of June, 1855, to the families of. combatant officers holding tha same relative ranks.
20. Medical ofticers shall ve entitled to field allowances, at home and abroad, at the following rates, subject to all the conditions and restrio tion, laid down in our warrant of 1st July, 1848 :-

|  | Ordinary. | $\begin{aligned} & \text { Ex+raordf } \\ & \text { nary. } \end{aligned}$ |
| :---: | :---: | :---: |
| reaimex at. | 8. d. | s. d. |
| Assistant-Surgeon, under six years' service | 10 | 20 |
| Assistant-Surgeon, above sir jears' service | 16 | 26 |
| Surgeon ............................... . . . . . . . . . | 36 | 46 |
| Surgeon-Yajor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 26 | 46 |
| stafy. <br> Assistant-Surgeon, under six rears' service |  |  |
| Assistant-Surgeon, above six Jears' service . . . . . . . . . . | 20 | 36 |
| Surgeons . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 50 |
| Surgeon-Major . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 3 | 80 |
| Deputy-Inspector-General, under th-ce years' service.. |  | 76 |
| Deputy-Inspector-General, above three ycars' service.. |  | 100 |
| Inspector-Genersl of Hospitals . . . . . . . . . . . . . . . . . . . | 90 | 150 |

21. Surgeons or surgeons-major of infantry regiments, shall not in future be subject to any diminution of the allowance of forage, according to the regulations in for w, nor to any stoppage out of their daily pay for any ration of hay, s'raw, or oats supplied for the horse or horses keph by them for the public service.
22. All staff surgec ns of the first-class and senior surgenns of artillery now serving, or whe, being now on half-par, shall hereatter be called upon to seive, sha' rank as surgecns-major from the date of their commissions as staff-surgeons of the first-class or senior surgeons of artillery and shall reccive the pay of surgeon-raajor according to the foregoing schedule of full-pay from the date of this warrant, or from the date d being called from half-pay to full-pay ; and al! surgeons who have already completed 20 'years' fall-pay service, or upwarde, in any rank, shall hay the ran's and pay of surgeons-major from the date of this warrant.
23. Medical officers shall be beld entitled to the same honours: other officers of our army of equal relative rank.*
24. A medical officer, retiring after a full-pay service of 25 years and upwards, may, if recommended for the same by the head of his depsir ment, receive a step of honorary rank, but without any consequent is crease of half-pay.
25. Good service pensions shall be awarded to the most meritoriou medical oficers of our army under such regulations as shall be from time to time determined by us, with the advice of our Secretary of Stath for War.
26. Six of the most meritorious medical officers of the army shall be named my honorary physicians, and six my honorary surgeons.

Given at our Court of St. James's this 1st day of October, 1858,in the 22nd year of our reign.

Gin-Seng in Canada.-An exceedingly interesting pamphlet has of late been published by Mi. Verreau, Principal of the Jacques Cartier Normal School, consisting of a ro-print of a very rare work, and entitled "Mémoire présenté i Son Altesse Royale, Mgr. le due d'Orléans, Régent de France, concernant la précieuse plante du Giiu-Seng de Tartarie, découverte en Amérique par le Père Joseph-François Lafitau, de la Compagnie de Tósus, missionnaire dey Iroqunis du Sault St. Losis," preceded by a vory learned biographical notice of the discoverer of Gin-S. ig. "Après Charlevoix," says V. Verruau, "le Père Lafitan est un des lísuites qui se sont le plus distingués comme historiens et comme naturalistes. Le Journal de I'Instraction Pabligue, dont les rélacteurs s'efforcent de réunir davs leur collection tont co qui peut futéresser les anis sincères de la gloire de notro pays, commence aujourl"hui la production du mémoirc que ce savant missiounaire présenta au duc d'Orléans, régent de Fradee, "sur la précieuce plate du Gin-Seng" quill renait de dé uuvrir dans les forèts du Canada, mémoire fort rare maintenant et qu: seompagné comme il l'est d'un fac simile de la planche qui re trouve dans le volume publie à Paris, ct d'un portrait avec autographo de l'auteur, seca pour les amateurs de souvenirs historiques du pays une véritable bonne fortude. Nous eussions aimé à joindre à ce mémoire une aotice biographique quelque peu étendue; mais, malherreusement pour nona, le Père Lafitau était du nombre de ces apôtres zélés, dont la vie so résume dans lenrs travaux et dans leurs écrits, ru l'homme a toujours le soin de s'effacer derrière les grandes choses quil accomplit." At one tine the trade in Gin-Seng from this country to China promised to become one of some consideration. According to Mr. Garnean as much as 500,000 franes worth was exported in one year. The properties of Gin-Seng as a medicinal agent; its physiological effects and therapeutical nses, have not, as yet, been thoroughly investigated. The Chinese atribute almcst marvellous powers oo the root "It nourishes and etrengthens the body, checks vomiting, removes hypochoudriasis and all other nervous affections, and, in short, is capable of giving a vigorous tone to the system, even in old age, and is a panacea for all ills. It is administered in a variety of forms and the only ill result ariving from overdoses they state to be a tendency to hemorrhage." The Cauatian root was supposed by many not to poseass the virtues of the Asiatic. This, however, as M. Verreau observes, may have arisen from fanlts committed as to the season in which it was collected, method of drying, \&c. Here, then, is an excellent opportunity for some active mind to distinguish itself, by thoroughly invest igating everything connected with Gin-Seng. We hope ere long to hear something roore regarding this indigenous plant, and in the mean time we are much indebted to M. Verreau for enabling as to call the attention of the profession to it.

Canapa Directory.-The Prospectus of a new edition of this truly national work lies before us, and we are equally surprised and pained to learn that the enterprising Publisher has sustained a very serious loss by the publication of the first edition. We hear a great deal of palaver. nowadays concerning Canadian nationality. Seldom do a few bueadred men meet together in public, no matter for what object, but they art told, by those who address them, that all distinctions of race, etc., must be set aside and forgotten, and that the people should unite in developing the vast resources of our immense territory, in supporting and encouraging local enterprise; and know of no other nationality but that associated with our common country. These patriotic sentiments are, of course, applauded to the very echo. They are excellent, and meet with our hearty assent, for we are Canadian, and have a deep affection for the country of our birth. We would be better pleased, however, to witness love of country manifested rather in deeds than in words Here, for instance, is a work that reflects the highest credit on Canada; it is entirely the result of Camadian enterprise; cven to the paper on which it is printed, it is Canadian. There is not, we believe, a work of a similar character, at all to be compared to it, either in Europe o: America. It bas astonished foreigners, and done more than all the speaking of all the after-dimer and political stump-orators to make Camada thoroughly kuown and appreciated abroad. And yet, the Canada Directory has met with so little encouragement, that Mr. Lovell is out of pocket by it, and he has been compelled to issue a Prospectus "as a precnutionary measure, to ascertain what degree of support a new edition of the Directory would receive, before embarking more capital and involving himself in more anxiety in an undertaking that has already proved extremely arduous."

The new edition, if a sufficient number of subscribers be obtained, will appear in September, 1850. The price to be $\$ 8$. We shalt be happy to receive the names of those of our readers who may be desirous to hive their names placed on the subscription-list.

| Endna 23th Ootobien; 1855. |  |
| :---: | :---: |
| Patients remaining from last quarter | Died laring the quarter <br> Now in inospital. |
| Patients admitted present quarter, 251 | Discharged. . . . . . . . . . . . . . . . 252 |
| 325 | 325 |
| In-door patients. | Out-door patients. |
| Males.......................... 171 | .3iales.......................... 665 |
| Females ..................... 80 | Femules ...................... 679 |
| 251 | 1344 |


| Digmasis axd Acciderys. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Abscessus.... | 4 |  | Gonorrbcas. | 1 |  |
| Adenitis | 1 | .... | Hæmoptysis |  |  |
| Ambartio | 1 |  | Hemiplegia. | 2 |  |
| Ampatatio | 3 |  | Hyateria | 2 |  |
| Aneurism per anast. | 1 |  | Icteras | 2 |  |
| Angeio-leucitis.. | 1 | 1 | Impetigo | 1 |  |
| Anthrax | 1 |  | Inebrietas | 1 |  |
| Astbme | 1 |  | Intertrigo | - 2 |  |
| Eronchit | 9 |  | Inversio uagais | - 1 |  |
| Bursitis. | 1 |  | Iritis traumat., | 1 |  |
| Cancer epith., | 1 | . . | Lepra guttata. | 1 |  |
| " mamp | 1 | [.] | Luxatio.. | 1 |  |
| " pteri | 0 | $1 *$ | Mania | 1 |  |
| Caries | 1 | ... | Neuralgia | 1 |  |
| Cataractus | 1 | ... | Obstipatio | 1 |  |
| Catarrhus. | 2 | ... | EElema. | 1 |  |
| Cepbalalgis | 3 | . $\cdot$. | Ophthalmia scrof. | 3 |  |
| Cholera Canad. | 1 | .... | Orchitis.. | 6 |  |
| Chorea | 1 |  | Paralysis. | 1 |  |
| Circamcisio | 1 |  | Paraplegia | 1 |  |
| Conjunctivitis | 10 | .... | Paronychia | 1 |  |
| Contusio. | 8 | ... | Peritonitis | 1 |  |
| Oorneitis | 2 | . . . | Pbrenitis. | 1 |  |
| Cynazche tonsil | 3 | ... | Phthisis | 1 | 2 |
| Debilitas. | 2 | $\cdots$ | Pleuritis | 1 |  |
| Del. tremens | 6 | 1 | Pleurodynia | 2 |  |
| Diabetes | 1 |  | Pneumonia. | 2 | 1 |
| Diarrhœa | 6 |  | Polypas nasi | 1 |  |
| Dysenteris | 9 | 2 | Psoriasis | 1 |  |
| Dyspepsis | 8 |  | Rheumatismus | 23 |  |
| Epilepsia | 2 | . | Scrofulosis. | 2 |  |
| Erysipelas | 3 |  | Sinas | 2 | 1 |
| Febricula | 2 |  | Strictura ureth. |  |  |
|  |  | - |  | 1 |  |
| " intermit. | 1 | - | Syphilis .... . | 21 |  |
| " remit.,. | 1 |  | Tinea capitis | 2 |  |
| " typhoid | 1 |  | Tumor..... | 1 |  |
| Fistula in ano | 1 | .... | Olcus.. | 13 |  |
| ${ }^{\text {" }}$ " per | 1 | .... | Urticaria. | 1 |  |
| Fractura . | 6 |  | Fulaus | 9 |  |
| Faruncalus | 2 |  |  |  |  |
| Gastrodynia. | 2 | . . |  | 251 | 9 |

Operationb, \&c., dubing ter Qearteb.
Major Operations.-Ampatation of fingers, 2.
By Dr. Wright.-Amputations: of legs, 3; of toes, 2. Excisions: of tumors, 2 ; of penis, 1 ; of inverted nails, 2. Circumcision, 1. Aneuriam injected, 1. Operation for fisiala in $a^{2} o_{1}$ 1. Hydrocele tapped, 1. Division of Cataract, 1.

Fractures treated.-In-door, 6 ; out-door, 1. Total, 7.
Dislocations reaiuced, 1.
Minor operalions.-Venesections, 2 ; cnppings, 11 ; leeches applied, 17 ; catbeterisms, 14 ; teeth extracted, 77; wounds dressed, 14 ; ulcers strapped, 22 ; abscesses opened and other incisions, 20 ; total, 177.
By Dr. Caypberl.-Ampatation of breast.
By Dr. Rzody-Exciaion of epithelial cancer. ( 0 mitted in last report:Popliteal anenrism cared by compression. Scirrhas of the tongae removed by the ecresear.)

By Dr. Frasirr (omitted in last report).-Extipation of oye-ball. Altending Physicians.-Drs. Bcott and Wright.

## MEDICAL NEWS.

Dr. Dasd Chl, of New Furk, whose conduct in the Cunningham-Purdell. affar wo felt it our duty to animadicrt upon, died at Bulivar, Venezuela, on Friday, Suptember 1\%. The vdium which he brought un himsuf by his unfortrinate conduct in that affair dutermined his remural from Nety York. Requiescats in pace.-The number of deaths frum yelluw fever in Chatleston, S. C., ini the month of september as reported in the Charleston "Mredical Journal" was 359 whites and 18 blacks. In New Orleans, dating the same period, as, stated in the Medical and Surgical Juarnal of that city, the total number of deathe log the disease was 1820 .- In the Coited States the fconsumption of cuffee is cothe times as great as in Great Dritain, and prubably the consumption of beer an Great britain is cight times as great as in the Cnited States. No less than twelse crusses of the Legion of Hunur nere lately given to medical men, buth in civil and military practice. Auwngst the higher grades of the order we nutice Messrs. Audial and Trubseau. These eninent physiciante hare attained the ranh of "cumuatuler," which is the highest bat one in the: Legion of Hunvur.- Prufusour Chumel has luft to the Medical Benevolent Suctety of the Departencut of the Seine three jer cent. stuck, bearing an interest of $f_{8}$ a year...... What Juner said un reading, in Lly sium, that complaintey had been made of his having a statue in Trafalgar Square :-
"England, ingratitude still blots
The seatche un of the brave and free-
I saved you many a million spots, And now you grudge one spoi to me."-Punch.

- A new medical marrant fur the army has been issued, giving the mediak ufficers the same right, priviiuge and positiva, accurding to chir rank, as othere officers.-The Buard of Trinity Cullege hare elected Denjamin Georgéj McDuwell, M.D., T.C.D., to the pust of Professur of Anatumy and Physiology to the Eniversity, rendered vacant by the death of the late Dr. Marrison. Drey McDuncil has lung been hauna in Dablin as Lectaner on Aratomy and Physef Glugy to the Ruchmund Medical Schuvh, and as Physician to the Whitrorth ande Hardwake Huspitalo.-A Negro, superbly dressed, magnificent and aude: civas, has sucecdea in bewildering the Parisian dames with his panegries of his novthuns, whech rere rouched to cure all the maladies which flesh is heir to. After a bricf triumph, and creating a grand sensation in the salons, he had Suddenly and mysterivusiy littud, leaviag a large number of imbeciles and gulls to bersail his ivss.- It is said there has been a fearful outbreak of chulera a the falleg of C.shmure, and that une humitred thuasand persons have fallen vacims. It is repurted also to be spetading.--The Medical Faculty of Marsethes have recently decided that defluration of a young woman is: quite pussible under mesmerism. Such a cate having leen tried before tho tribumb, the medical eiectician wha sentencei to penal servitude for life, ap: guily of rape: —The Laperor of Rassia seems resolved to put down yuackery in his dominions. The circumstance, perhaps, of his father dyiag under the tratment of a humeupath in a.manner that excited extreme disss= tisfaction, hats set his mind rgainst charlatainism in every shape. Humocopathy and Murriswis pitis hatre bech ahihe csiled frum the dominiuns of the great Czar. An order lats just beca issucd to pruhibit the importation of certain quack compusitions, such as culivitim, cantharida'c, hydrargrum-zooticum, Morisuàs pills, cleum Harthansc, he drargyrum sulphuratum stibiatim, Lerof do medicines, ctc., ctc. Wy the repurt of the Commissioners, it appears that the number of paticuts in the brivas Lunatic Asylums of Ireland amounted upon the 1 st of Jamary 1837 , to upwards of 3,286 . Despite emigration, etc: the lunacy returns show an annual increase.--D.D. Boyd, health-uficer of the City of Brouklyn, reports 22 cawes of y chlow fever as having occurred is that citv-luriag the nast armmer.


[^0]:    ART. XVII.-A Practical Treatise on the Causes, Symptome and Treatment of Spermatorrhosa. By M. Lallemand, formerly Profeseor of Clinical Surgery at the University of Montpollier, etc. Translated and edited by Hemay J. MoDovasul, member of the Royal Colloge

[^1]:    - Mr. Stanley here referred, we believe, to the former part of the history of this case, given in the 'Medical Circular'-(Nov. 4, 1857)-Mr. Stanley, of necessity, being obliged to read over the notos of the case as then printed in this Journal and in this alone, we believe, of all our London Journals. The romarkable character of the case may be conceived from the fact that this is the second "Clinical" delivered by Mr. Stanley on this one case alone, and many lemding Lopdon surgeons have come to see the patient.-Medical Journal Note.

[^2]:    (1) No. 1. Jantier 1858, p. 144-158.

[^3]:    (2) Voir le sémoire que j’ai publié en 18! 1, dans les Mémoires de la Societs des eciences de Nancy, sous le titre de: Noi velles recherches sur la nature et Corigine du principe acide qui domine dans le euse gastrique.

[^4]:    (1) Il est peut-Atro bon de faire remarquer que l'acide chlohydrique mis on liberté par la concentra..on de la liquerr est en grande partie retenu par la matiè e organlque, ainsi que je l’ai falt voir dans le mémoire précité, en répondant à une object' on qui m'arait été falte par MM. Bernard et Barreswil.

[^5]:    - Or on promotion, should these periods of Service not be already completed.

