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## THE

## MEDICAL CHRONICLE

VOL. H.]

## ORIGINAL COMMUNICATIONS.

## ART. XIII.-Strychnine in Asiatic Cholefa. By W. Fraser, M.D., Professor of the Institates of Medicine, McGill College, and Physician to the Montreal Geweral Hospital.

During the present epidemic of Asiatic Cholera, I have, from witnessing the frequent failure of most of the different plans of treatment hitherto recommended by writers for that disease, been led, on physiological grounds, to try the eifect of:minute doses of strychnine as a general stimulant, for sustaining the vitalpowers on the eve of their failure, and for restoring them to functional action when that is all but suspended by the supervention of collapse. By thus sustaining life till the virulence of the disease is expended, time is afforded for the trial of any plan of treatment to which the medical practitioner may be most partial, for correcting the almormal condition of the blood and secretions, a condition resulting from theq combined efect of the original catise of the disease and the discharges from the gastro intestinal mucous membrane. It will hence be perceived that strychnine is not suggested by me as a remedy for superseding the treatment hitheito pursucd in cholera, but as a stimulant supernor to any hitherto in use for sustaining life, in cases where life wonld, to all appearance, otherwise lecome extinct before treatment culculated to resture the blood and organic functions to their dormal condition could be made available. Administered for fultilling the object :hus defined, in the mode which I will presently explain, strychnine in cholera has been attended with an amount of success in my hospital practice which far surpasses whit I have met with from any other remedy, and justifics the a priori opinion, furmed on physiolagical grounds, of its probuble modus operamili in this fearfully rapid disease; thence I am induced to lay the result before the profession.

For tho sake of explicitness, I will explain, 1st, The indications which Have guidrd toc in the administration of strychnine; 2diy, The dose
iound most suitable, and the intervals at which it onght to be refeated; ic. y , The result of my hospital rractice ; 4thly, Tin testimony ofothers. ast, The induation for the administration of siryhtnine. In all cases - freal Asiatic cholera (tested by the evacuation of rice water stcols), in en before the supervention of collapse, the coming failuno of the ciren1 thon is indicated by less or more irregularity or fluttering in the rhythmic action of the 1 ulse. When the case is scen at this stage, the strychwine shond be at once commenced simaltanconsly with means for arestre and correcting the discharges. Given at has early period, it wil r.rely firil to arrest the patinit's desent into collapse. From 6 to 12 doses will ustally cause the fuise to become tirmer and more regular, and the ancmic oppenr:nce due to the scrous discharges frem the aif a.entary canal to be replaced by au active capnillary circulation. In those eases, on the other hand, that are in a state of collajse when first seen tue principal indications are to bring on reaction and to arrs st the disrlarges, when these still continue. All who have seen much uf cholera wist be but too faniliar with the frequent failure of odinary stumelants mbringing seaction ; hence tie necessity of empooying such an eatrawhinary and iowerful agent as strychmine, which, aceurling to my ex1 (eicme, whl often, but not whays, succeed in duing so, in cases where ail other stimulants would fail. In scme desprate cases, other stimu-
 gwen, when the stomach wit bear them concurently with strychme, they will huwere: be very commonly rejected, while strychmme alone is relained.

Indiy, The close which I have femed most suitable is the $1-1 \mathrm{Sth}$ ] art of a grain, lissolved in act tic achd and alcohol, and reputede every quarter of an hour, or crery five or ten minutes in very sciore cases, till the pulse, if it has been fluttering, as in incerient collapse, becomes steads. or till ruaction is establishod in cases of collajise, -when these oljects are :ccomp ?abled, the interval lectween the doses onght to le lengthered -and shoud the spedie wien of the medicine on the norvens system
 wien it may te aguin adninistered if deomed royusite at longer atervals. The modncine should bo thes continued till the circhlation is finly and firmly cstablishecl, and the pationt is fairly beyond the rek of ecilnse. Luming the ahministration of this dangercus rencdy, the patient slould he freciucsity seen by the physician in order to watch its efect:, and direct its discontinuanee, shonld its effects on the nervots system manifest themscives. When hoi comvenient for the :here medicul attendant to sec the preteni sufficicntly often for the par-

geged to watch the case. In none of the hospital cases, to which I shall presentlo refer, did the least injurious effect follow the use of the medi-cine-in the majority of them reaction came on withon the neeessity of farshing it so far as to produce its constitutional efiect-while in a few that efiect was requisite together with the assistance of autiliary stimulants.
3rd, The result of haspital practice. The number of cases in which strychnime has been administered ader my tirections by the zealousand inteligent house surgeon, Dr. Craik, between the 17th July and 2d August, is 22 . Fur the satiffiction of the profession, I here give a table showing the date of admission, names, ages, stage of the disease on admission, and the result.

TADLE OF CASES TREATED BE STRYCHNANE.


It is right to mention that these cascs were not selected as favorable ones for obtaining favorable statistics for the strychmine treatment, lut include every case as they came under my charge during the above period, which appeared to repuire stimulatmer treatment, with one exception, moritund, at the time of udmssabn.and which I did not see. In all the cases the calomel tratmont was simultarecusly employed, together with ather means sagestad ly gencral jrmeines for combating symptums as they arose.

From the table it will he sien that the mimine of datis in the $\mathbf{2}$
 the 5 deaths, that in 4 of then acoction cume on, and the $y$ dad not of cholera, or at least not in the collap-sd stage of cholera, but of the secondary fever which su often fillonsit. The anly one that did 2 'e in collapse was William Andersuln, and he (thourh several hours in the hospital) was but one hour under the strychmine treatment, during which Mr. Loverin, the student who watched him, telis me be twok fuur doses caly, so that in his case it can hardly be said to have had a fair trial. I eonceive it is theretore deserving of special notice that in all the casea (anci some of them wore of the very worst descriptum) excrpt in Ander. sui's, the strychnime was successtill in accomplishing the purpose for which it was prescribed, namely, branging on reaction, whach tends to prove its anperionty over all othar stamulants hatherto employed in this disease.

4th, Tue testimamy of chese. This l sutjoin rithout any comment; the certificu:-s sumb tor themselves. It will afford me much pleasure to loarn the resuit of the expericne of any professonal gentleman who may give the phan suggested a fair trint, so that ats merits and demerts may, by extended olservation, be accurately defined.
 Montreal. Great St. James Strect, Ang. 1\%. 1854.

My Dear Sir,
In reply to your note abking my opinion of strychnite as a remedy in chulera. I have to state, that my experience of it is hanted to three cases. all of them the nast severe furm of the disease. In the first case, winch


 and senur, wheh the young gentc mansad he was m the habint of usug as a luxative. Two hours before visiting my fatiert, I had sent him three scruple doses of calomel, with half gat otace of $u$ inuxture, compur ed of equal parts of sointion of mur. morphas, ard the malson of cum-
phor in chloroform, a teaspoonful of tir- nuxtare, with sae of the powders, to be taken every half hour till I iim, and annstard peultices to be applied to the abdomen. At my first , -it at 6 a.m., the medicines had all been taken, without in any way arresting the attack; the ricewater vomiting and purging still continued; the cram $s$ were very violent, the skin bine and cold, the pulse nearly gone at the wrist, the voica rcduced to a u-hisper, and the cullapse complete. I immediately commenced the use of the solution of strychniue, by acetic acid and water, giving the 32 ud part of a grain $e$ iery quarter of an hour, and auspending all other treatment. An intelligent mirse vias directed to continue the remedy, till convulsive twitching of the muscles was produced by it. The patient was permitted to have ice and cold water in small quantities. I saw my patient every second hour till two o'clock p.m., when the first grain of the strychnine was finished, without producing its physiological efferta, anc without any sensible influence on the disease, except that I thought the mere fact of his holding out so long indicated some stimulating influence on the part of the remedy; and having to pay a distant visit is the eountry, I did not see my patienl again till 6 p.m., when I found that half an hour previously, violent twitchings of the limbs had been producer hy the strychnine, and one convulsive attack of such severity, that $t_{1}$. a attendants stated they had great difficulty in holding him in bed. His intellectual faculties were not in the least zonfused, and he compared t'e sensation to an electric shock passing down the spine and darting along the limbs. The upper extremities were not so violently affected as the lower, and the paroxysms were usually ushered in by a loud cry of pain on the part of the patient. Simuitaneously with the occurrence of the twitchings, reaction commenced ; I found the pulse, which had been entirely gone, 120 , and almost sharp to the feel ; the countenance began to fill out, the lips ware red, and warmth had returned to the surface; the dose of the strychnine was dimiaished to the 100 th part of a grain, end continued e.ery half hour, so long as any tendency to flagging of the vital powers remained. As might have been expected, from the duration of the collapse, the subsequent secondary fever was very severe, and the convalescence, which is now complete, has been protracted by inflammation and suppuration of both perotids.

The second case in which I employed atrychnine, being some distance from town, I had no opportunity of watching it effects, but the rapidly fatal termination did not seem in the least to be arrested by it.

The third case, a most intense one, was in an individual advanced in iife, and of a weakly constitution ; and here the atimulating effects of the remedy, in restoring the pulse, were very conspicuous; so much so, that
at one time I thought reaction furly establishin, and the prospect of re covery favorable, but collape arrain set $1^{n}$, tormuabmer futally.

Notwsthstanding the unfortunate resul in two ont of the three cases in wheh I administered the steychnine, 1 look uren it as the most valuable stimulant to the nervous system 1 lave yet seen tricd metae cullajse of cholera; and one great advantage is, that its administration does not in any way interfere whth the cmalement of wher remedies, such es calomel, whech may be regarded by the practitancr as uf essential service an the treatment of this disease.

$$
\begin{aligned}
& \text { I remain, my Dear Sir, } \\
& \text { Yours viry truly, } \\
& \qquad \begin{array}{l}
\text { Gbu, W. C.avpoele, A1.1). }
\end{array}
\end{aligned}
$$

> I'om Mr. ('. Ault, Apothecary, Muntre al Giencral Ilospital.
> Montreal (icneral Jlospital, Aur. 15,145 .

Dear sib,
In complance with your request, I lave much pleasure in fivang my testimony ns to the comparative eflicao; of strychmat in the treatment of cherlera.

During the late epidemic I have vitnessed the relatire e. ecets of the varions modes of treatment adopted at the present day but in pone have I scen such decited and favor:tble results prutucal ir by the stiychma, both in preventing collapse and restoring reactio: when collapse ind supervened.

In fing, it agrees well with the patient, $\begin{gathered}\text { whes rese to no unpleasant }\end{gathered}$ symptoms whatever, and is generaliy retained on the stomach when ret other sulbstances would be immedintely rejected.

With much respuct, yulls,

Chs. Milt.

Frem l)r. ('ruik, Honso Firescon, Montreal Gencral Ilusrital. Montral, $1 \approx$ th August, $195 \ddagger$.
1)earsitr,

I have much pleasure in complymr witly your request, by stating my opinion with regard to the efficary ol strychma, as sugeested by you, m the treatment of cholera.

My present pisinon has afforded me a favoralle opportunity fa observing the relative effects of the varions remblues made use of in this discase, and I have been led to the conclusion that no remedy hitherto employed possesses the sanie puwer of warding ofl the fatal cullapse which so rapidly smervenes, nur of bringing (an reaction after the state of collapse has been filly esiablished.
iann ciatinced that of the administration of strychnia were early commeaced, in conjunction with the other remedies usially employe! wr checking the discharaes, the supovention of collapse migit he prevented 11 a daree majority ef eases, and even whenc that state has atready lecome extreme, its diligent arl per-vering use, tonctier wati the emplugment of other stimulants, might $l$ is on reaction in casen; ctherwise perfectly hopeless.

I have further ulberved that the strychmia has been retaincd upen the sionath when : !! othei suldances were instantly rejected, and the strength has then been sustained, whe the eatreme irritability of the cran was being con bated by other means.

In the hepe tinat by the sencral atopition of this jlan of treatment the mortality of cholera may be materially deminished,
I ce:uain, de.,

> I. Cratk, M.D.

In conciosion I may chser ic that the sume plan of treatment will tikely be found advantageous not only in the collapse of cholera, but also an varions other prostrated conditions of the system, as after hencrighage, and from $t^{\text {he }}$ e effects of narcotic puisoming-to $t^{1}$ bis latter class of cases strychane, properly adminstered, wall in ald probadnlity be found in some degree an antidote-its action on the nervous system being directIy the ofposite to that of narcoties, which destoy nervous power b. paraliziars the nervous centres, thile strychmine, by its aflinity for, and extraordinary power of, stimulating the nervous centres, liftuses life and activity harough every tissue and oraan. To use the words of my talentcd and vencrable friend Dr. Marshall Hall, "It muliss the old yoneng, and the jesble strong." It is true that the action of strychmine is cinionly manifested on the cerebro-spinal system and the parts whinh it supplics with verwous power, and consequently its action is not so direct tipon the orfanic orrans, whose ordiamy functions are believed to be independent of norvous power. Bat hat the nervous system of :mimal life has at coutronling mflucree over the organic functions, is a question in fhysiolugy that has been setuled in the atlimmative by both observation and darect experiment ; henre when the cerebru-spinal system is stimulated to an exteordnary degrec; that stimulation will be extendedin some measure to the organs of organic life, and especially to the heart, blocd vessels, liver, amb intestincs.-ly then impritut functoon of respiration, which derives its uervous power directly from the cercbro-sinal system, and Whioh shows early signs of failure in Whe collapse of cholera, strychnine: evereses a more direct influence. That such is the modus operandi of s:rychmine in cholera, any one who pushes it so as to eroduce its consti-
iutional effect will, I dare say, be convinced, on finding the faling eir. culation of ccilapsed jainents becoming active and strong, while heat anj life are diffused into cvery limb and organ, some of which muy havg prevously been in a semi-moribund condition. So remarlable was the cffect in sume of my cascs, hat it looked more hke magic than mid. cine.

Little St. James Street, Augast 21, 1854.

ART. XIV.-Nature of the Morlid Poisons and of the Daseases to whish. they give rise. Being an Inaugural Dissertation presented, March 1854, to the Med. Fac. MeGill College. By Robert Craik.
It is not my intention in the following pages to attrmpt an elaborate description or explanation of all the phencmena connected with the diseases produced by the morbid poisons. The suljeat is too extensive to be included within the narrow limits of an inaugural dissertation, and too abstr"ise and intricate to be undertaken by any but those whose minds. liave been trained by long habits of research und discrimination.

But there are certain prominent points that stand out as landmarks, challenging the attention of every olserver, and which have been subjocts for investigation to men of science, ever since Medicine deserved the name of a science.

Some of the most remarkable of these features, for instance, are the contagious nature of the diserses to which the morbid poisons give rise; the great dispropostion between the cause and the effect; the immense multiplication or reprodaction of the pois,n within the system; the regular sequence which the symptoms generally preserve; the immunity from a subsequent recurrence wbich many of them have the power of conferring; together • ith other peculiarities less prominent, but scarcely less characterstic. It is the runsideration of some of theso prominent (eatures, including the rature of the morbid poisons themselves, that 1 propose is the subject of the followine essay. I do not intend to take them up seriatim, in the order in which 1 have just enumerated them, but as they suggest themselves in their appropriate places as I proceed. In the examination of the subject, cursory as it must necessarily tre, I shall pass lightly over those parts which may fairly be considered as wetled, and entce mose fully into those which still remain in obscurity, alluding briefly to the various theones which have been advanced by. difiereut authors, stating the oljections to then, and in some cases venturing to suggest others which may secm more strongly sunnorted by
analogy, and which may explain as fully the vari us phenomena under cunnderation.
(f) the names made use of by authors to designate the class of diseasea produced by the action of the morbid poisons, the term "zymotic" seems the least chjectionable, and I shall therefore adopt it. Cu'. .n's order of rxanthemata includes many of them, but not the whole, so also the term sontagious or infections diseases, though it would inclu:le all the diseases in question, yet it would comprehend others, as scabies, porrigo, and such other diseases as from their purely local nature are not generally zanked in the same class with the others.

The division of the subject which I shall adopt will be the following: 一

Firstly, I shall consider the seat of the zymotic diseases.
Secindly, The conditions necessary or favourable to their production.
Thirdly, Tho probable nature of the poisons themselves, and their mode of action, which, tagether with the preceding divisions, will include the explamation of most of the phenomena of the dissuses.
Lastly, I shall conclude by alluding briefly to the indications for treatment, furnished by the consideratiun of the foregoing divisions of the subject.

## I.-The Seat of the Zymotic Diseases.

All patholog:sts seem now to be agreed in considering the blond as the primary seat of these diseases; the local affections being merely the result of the general contamination, and, for the most pa.rt, caused by the efforts of nature to expel the offending matter from the circulating fluid, and hence, these lceal affections are gencrally found in cxereting structures, as the bowels, kicineys, skin, \&c.

That such was also the opinien of the ancients, may be seen by referring to therr old humoural pathology, by which they were wont to explain these diseases. The solidists have since then attempted to locate them in the solid tiswues, but these opinions were grounded on mere speculations, and have yielded entirely lefore the modern views, lased as they ure upon actual experiment and observation.

That the liwod is the primary seat of the diseases, may be proved in many ways. By the simultaneous appearance of cruptions over the whule body ; the symmetrizal distribution of some of these ernptions; and by the production of a speeific disease by direct inoculation or translesion of blood, as has been done in measles.
ii.-The Conatton: neces sary or favxuralle to.the production of the Zymotic Disauses.
That-these diseases depe.ad for weir production, in most instances, if not is every case, upon some material introduced from without, secms
highly probable, though there are not wanting many who asset strongh the opinion,-that all of them may, and frequently do arise srontanecosty under farticular circumstances, and who deny altogether the infectious: nature of many of them. These opinions will be again reverted to, fot the present, let it suffice,-that many diseases are undoubtedly produced by the intreduction to the system of morbific matter, from the person of another latouring under the same disease.

But this morbific matter is net sufficient alone to produce the disease; it can only co-operate with ccotain other matters within the system; and if these latter be not present, it can no more produce the disease than a candle can continue to burn, or an animal to live in an atmosfhere which contains no oxygen.

These matters contained in the blend of presons susceptible to the action of the morbid poisons, constitute what Simon calls the "specific internal cause," $m$ contradistinction to the matter introluced from without, which he calls the "spacific external cause." The best ex:mple of the matual action of these two canses, is the inoctlation with small fex matter, of two persons, one of whom has previously had the disease, while the other has not. The fomer will remain unaffected by any amount of the matter, because the specific internal caust has already been exhausted, while in the latter, a minimum quantity will suffice to preduce the diseuse, the internal cause being ready to respond to the external.

Again, there must be supposed to exist within the booy a different specific internal cause, corresponding with each of the specific external. Forexample, after the susceptibility to small pox has been exhansted, the poison of incasles cr of semact feverwill'be found to act as readily as if small pox had not cecurred, thus proving that each of them has its own partizular canse, otherwise the latter two would have remained inert.

Bre, it may le asled-What evidence is there of the existence of this specinic in:icra:il enare, and of what may it be supposed to cousist With eegard to the flrst question; we have sufficient proof of the exist ence of a sucific internal cause, in the circunstance, that after the occurrence oi sime of these diseases, and the conserguent separation from the bleod, of the mattir peculiar to the discose, the susceptibility to are currence is exhausted, kading us to infer, that the purticular ingrediett of the blowd which has thus been separated, was absofutely recessary for the proftaction of the discase. But no analysis, however minuta has yet leen :he to chetet the slightest diflerence in the ecmposition of the bivod, bediere and after the diseaso.

With regard to the other question-of what the specificinternal caus
cousists-at is emadent inat the: scarch matio ir directed towards either

 he the morectuents in quesuon, finamueh as there exhanthon or material aiteration woshl of neeessity prove hatal. Ife thanks that it will be sound, wereprolably, among the effete matt.rs of the tissues, some of these existing in the system only once durmat life, and hence, when removed, can never be replacod. Such are the waste materials of the: timpurary carthages, the thymus gland, fere, and some of the se might be supprosel to constitute the liabihty to such diseases as uccur only onct. in l:ic.

But it is not recessary for tho explanation of these latter diseases, that their internal cause should be producol only at une paticnlar period of life; fir, as sugesestel by Mr. Paed in his lectures on surerical patholosy, the immunty fron future attacks may depend on what he calls-the assmimative power of the biod. Thus, when the struetire of a part has heen altered by disease or iujury, as in scars, indurations, de., the altered texture continues to lee nourished, and its particular structure to be perjetuated, in the same way as normal tissue. So, ako, when the constitution of the blood has been changed by any of these diseases, this assimilaturo juwer mantains it in its altercd condaticn, as it furmerly maintained it in its natural state.

But there is a constant tendency in the system, in these cases toreturn tu the normal condition. Scars in process of time become lessened or obliterated, and indurations beeome suftened and removed, so also the atercd constitution of the blood produced by these diseases, may in process of time gradually zuinde, und finally altogether disappear; thas accounting for the wearing cut of the protection aflorded by vacciantion, and the recurrence of small jrox ar measles, a second or even a third nime.

A strung reason for supposing the susecpitilility to these diseases to deperd upon the effite matters of the tistur: is, that the accumulation of these maters in the system is well linuw to erente a predisposition 10 the altack of cpidemic and contagions diunus; thus, these diseases are generally found to hreak out first, and to ite must severe, in these localithes where impure air, imperfect ventiatuon, de., frevent the froper elimination of these matters from the blowl. So nlso with great muscular exertion, from the waste which it canses in the ti-sue. The influence which these matters have in poonsting the tendency to the acecssicn of zymotic diseases, with the conditions which favor their accumulation in the system, are well given, in a pryer by Dr. Carpenter, an
abstract of which may be found in "Braithwaite's Retrospect," (Fan xxvii.)

But, as lefore hinted, neither can this specific internal canse be looked upon as sufficient in itself to produce the disense, notwithstanding the many perions who believe that thesc discasc's micy be, and often are tha produced, or how could the fuct lie ueculnted for, that villages, town and even continents have remained nut only for years but for centuries fre from them, so long as the inbabitants avoided all communication with those laboring under the diseases. That the some specific internai canse oxisted in these individuals, cannot be denied from the great rapidity with which the discases were wont to spread, when onee introduced by ir fection or contagion. With these fucts before us, it is difficult to admu that these cascs uecur without any extemal cuuse, which are from time to time breaking out in localities appurently cut off from all sources of infection; for, taking inte considerition the subtile nature of these posons, their diffasion throtach the atmonphere, and the length of time the may remain in a dormont state in fumites and in other situations, it a more than probable that these anomalous cascs owe their origin to some lurking infectious matter, which has been unwittingly communicated, and which has really kindled the flame ascrited by many to spontane ous combuation.

On the other hand, it is most difficult to conceive how these diseast first originated, if we do not admit their origin independently of conts. Gion. We have no record of their having existed from the creation, the listory of most of them datug back no further than a few centurien; hence we are constrined either to admit that they have arisen withont any external cause, or to seek for some way of reconciling their present prevalence with their former absence or obscurity. The reasons why the former =lmission cannot be arade, have leen already given; with regard to the latter circumstance, nolhmg can be brought forward except conjecture.

We are aware that therc are many agencies, such as time, and a varety of circumstances, which exercise a powerfil modifying influence on many things, and even on diseases theusclves. Plants have been taken ${ }^{1}$ in their natural state from their native furests and piains, and by tha force of circumstances arranged by man's ingenuity, have been transformed in the most wonderfal manner. The same may be said of many of the lower animals. Mp, himself has undergone various changes, both in his physical and moral constitution; and even those very diseases of which we are now treating, haze, at various perieds of their history, presented characters widely dinferent from those presented at other times;
in fact, no two epidemies of the same disease can be sald to have been perfectly alike in all their characters.

Is it not reasonable, then, to infer, that these diseases have been at one period of their history very different from what they now are, so different andeed, as to render their recognition as the same dit pases highly improbable, if not improssible.
(It has been all but proved that small pox is greatly altered by transmission through the system of the cow. Ii this be correct, then, may not the systems iother animals pessess the same transforming power over many of the s diseases, some of them rendering them milder, while others render them more virulent; and might not even those diseases, now so distinct, and in many cases so maliguant, have first existed as obscure and perhaps trivial disorders in some of these lower animals, and by various circumstances, have breome developet and aitered until their present condition has been attained. This suggestion is somewhat imaginative, and might almost be calied chimerical; but it is not destitute of provability, and it is offered in a case where actual proof is out of the question.)

Taking it for granted then, that two canses of a specific nature cooperate in the production of these diseases, one of them existing within the budy, and the other introduced from without, we have a clue to the explacation of many of their peculiarities. It explains the reason why sma'l pux should in general be so much more mild when communicated by innoculation than when contracted by accidental infection, for the blood of those who take the disease in the latter way must be supposed to contain the specific matter in large quantity, and hence the disease is severe, while inoculation will produce the disease in those whose blood cuntuins the matter even in mininum quantity, and in whom the disease will be proportionately slight.

For the same reuson, those first attacked during an epedemic have the disease more severely than those attacked at a latter period, for the greater liability to the infection in the former, is cutsed by the large amonnt of the specific material in the blood. As alra ady shown also, it explains the protection afforded by many of those diseases against therr future recurrence.
1II.-We come now to consider the probable nature of th: mortid punsows themselves, and their mode of action.
Although it may be verj evident, that two causes of a specific nature are concerned in the production of these diseases, it is not so evident in what these causes respectively consist, or in what way they react upon each other. One of them has already been considered, it now remans for us to consider the other, and their mutual reactions.

Varions theoriss have been proposed in explanation of these olscme and difficult points, bat the most important hitberto brought forwat have been, Lielig's fermentation theory, and the paasite theory of $\mathrm{D}_{2}$ Holland and Irofessor Henle.

Liebig compares the action of the morbid poisons on the blood to that of yeast on the swectwort during the process of fermentation. He point out the close analogy which exists between the two procesess, the phe nomena being so similar as to aprear at first sight almost identical. This theory is so familiar to all, that it would be needless repetition to detaid it here. An excellent abstract of it is given in Dr. Watson's lectures, under the head of Exanthemata.

Simon, in his lecture on the morbid poisons, summarily condemns the theory. He denies that the two actions are at all analogous, because, in the first place, the morbid poisonsare very various, affecting the different ingredients of the blocd severally and distinctively, while yeast is the only ferment capable of reproducing itself in the vegetable solution, and its action always gives rise to the same products. I need scarcely sar: that this argument, however strong it may be against the identity of the actions, does not in the slightest degree affect the analogy.
In the second place, he objects that their sphere of action nowhete extends beyond the particnar ingredients which they respectively affet to an entire fermentation of the blecd. This objection aiso is overstrat. ed, for the analogous part of the process of fermentation is the reprodes. tion of the yeast, and not the prodnetion of alcohol and carbanic acil. The morbid poisons extend theiraction to all the ingredients of the bood susceptible to their influence, the mass of the circulation beity protected by the vital power of the system. The action of yeast exten* nof further. If the solution contain matters not susecpible to this at: wh, -under the control, it may be, of some power stronger than than d the yeast, that of chemical admity for cxampe-these mathers remet :nsaly waffected.

Thus the blocd may be said tu undereo as complete a changenst. weetwort, altheugh the change may not be so practically demonstar ble; but have we not sufiecient prof of such a change, in the fact. thet it now possesses a fower which formerly it did not jossess, namely, that of resisting contagion.

The fact that yenst is an orennic production, instead of a chemical sutstance, as Lielig prubaliy sumused it to be, is a stronger oliretiont. the theory, as a theory, than any of the foregoing, for, from a chomical, becomes changed into a garasite theory, a consummation which Lielng cannot be supposed to have cither foreseen or intended.

But whatever may be the defects of this theory, it has served to call
attention to a strising amaugy which had before been mondiced, it has given definiteness to I henumena which wero lefure vague and obscure, and it has printed cat the dircection in which future investirations would be most probably attended with suceess.
ificr cundeminis Licliges theory as inappicable, Simon throws out a fow sugastions of his uwn, regarding the phenomena of these diseases. He says, "in many respucts they secin to le sui generis. Certainly they are chemicel." Now, he brings nozeatons to show why the phenomenn shonll te luoked upun as chomical, nor can I cunceive why they should be cursidered as such, for they certainly have no analogue among ordinary chemical actions, properly so calle.3. Troceeding from this assumption, he next assigns them a place ameng that class of actions styled catalytic, with the condition, however, that if included in this class, they must constitute a new species.

Now, whatever be the nature of the action which the morbid poisons i ral $^{t}$ uron the blood, it seems sufficiently clear that it camot be catalytie, seeirg thent an essential law of catalysis is, that the agent ; which produres such action should not itself enter into auy combination resulting from that action. The action of yeast in the alcoholic fermentation is catalytic, in so far as the fermation of alechol and carbonic acid is concermet: bint the analogons part of the process,-the multiplication of the veact -emunot be considered as a catalytic action, for a direct affinity chemicel or vital, exists between the yeast and the gluten of the wort.

With regard to the morbid poisons, it cannot be shown that they inthee any new combinations in the blood into which they do not themselves enter, fur the only appeciable changes which are produced, are the removal of the material which gives the susceptibility to the action If the morbific matier, and the increase of the morbid material itself, leth effects evidently depending on an affinity exercised between the batter and the suecific ingredient of the blood, thus placing the action withont the pale of catalysis.

Atbother theory which has been considered by many as being liable to fewer objections than any wher hitherto propesed, is the parasite theory. This theury was first suggesied by Kircher, and has since been warmly advocated by Dr. Holland and Prof. Henle.

Frof. Menle argues in support of this theory. Firstly, That no substance ofher than an erganic onc is known to increase liy the assimila thon of foregg materials.

Secondly, The effect produced by the monbid fioisols bears no ratio to tho quantity of the substance introduced, which circumstance must uvalently depend upon the prolific power of the latter, therefore, according io the foregoing argument, this substance is prebably organic.

Agnin, The periodic nature of many of the se discases shows a c! a analogy with what occurs in the developement of organic subetances, The definite period of what has been called incubation, and the time which elapses between the commencement of the fever and the breating out of the eraption, are very similar to what uccurs during the fres gressive developement of organisms.

The same means, also, which fuvor, limit, or prevent the formationa developement of organic substances, also favor, limit, or prevent the ac. tion of infectious matter, as heat and moisture, which are finvorable to both; and acetre acid, which acts as a poison to orgamsms, and whom influence in checking contagion is well known. Moreover, organic substances, as infusoria, and parasitic vegetables, may, like contagiou matter, remain dry for years without losing their activity.

In addition to these general argunc.ats tending to prove the organm nature of the morbid poisons, Henle eadeavars to support the theor still further, by referriag to se veral diseases found among the lower orders of animals, and especially to one, eminently contagious and of a prrasitic nature, existing among silkworms. He atıaches great importance to this disease (nuscardine), evidently cousidering the analogy to be perfect. If the contagious nature of the disease be alone considered, the ${ }^{\prime}$ analogy is certainly complete; but the resemblance does not extend to other equally important characters of the zymotic diseases, for, as shown by Simon, this disease, together with other diseases commonly known th be parasitic, such as scabies, the various kinds of frorigo, hydatids, dc.. are of all diseases the most essentially local, proving injurious only in one of two ways; 1. Locally, from pressure or irritation. 2. Generally, from the local irritation becoming inflammatory, or by the system becoming animated. This is especially true of muscerdine, to which Henle attaches so much importance. The discase is purely a local one cxteading from the point of inoculation until it involves the $\because$ hole body and proving fatal only as the extreme result of pressure , exhaustive drain.

The course of most of the true zymotic discases differs widely from this. In them the lucal symptoms are generally trivial when compared with the constitutic al affection; indeed, in the severest forms, as in. cholera, plague, ac., the disease often proves fatal before the local sym?tums have begun to shiw themselves.

This theory, then, in is present form cannot be considered as suficient to explain the phenomena of the zymotic discases; for none of the ex anples cited are so closely allied to them as to admit of our infering a similarty of cause. It is true, that of late years animalcules have foen seen among the products of one or two diseases, sometimes included ur
der the same head, such as gonorrhoea,glanders, dec., but these diseasem are so different in most of their characters from the true zymotic type, that the propriety of adnitting them nito the same class may well be questioned.

But though the arguments brought forward in support of this theory, have failed to prove thiat the active principle of the morbid poisons consists of parasites or animalcules, according to the common acceptation of these terms, yet they go far towards proving that it is organic ; so that, instead of condemning the theory as altogether erroneous, we should rather attempt to modify or remodel it, in such a way as to obviate the difficulties which hitherto have opposed its adoption.

The animalcules or organisms found in the products of parasitic diseases, seem to me to be too highly organized; or of too large a size, to admit of their existing in the blood and circulating with that fluid. They have been found in varrous extra-vascular situations, as between the fasciculæ of muscular fibre, in the mncous and antaneons follicles, dec., but I am not aware that any such rave been found within the vessels.
But organisms may, and do exist in the blood. Modern physiology has shewn us, that nearly every flanction of the body is performed through the instrumentality of cells; indeed, so numerons are they, that the whole body might almost be considered as an aggregation of them. These cells are possessed of vitality at least they are subject to its ordinary laws. They have a period of progresive development, a peridid of matarity, and one of decadence, and they perfortnivital functions as those of notrition and secretion. In the healthy state the blood it loaded with these organisms in the shape of corpuscles, which, in countless myriads roll on tith its ceaseless carrent.

Bat it is not in the healthy condition alone thate living cells exist in the blood. Pathology has also pointed out to ns more thian one disease, whose proximate cause consists of the development and multiplication of cells within the blood.

Take for example, Pyæmia A vein inflames and suppurates. A circumscribed abscess is formed which containit pust This pun, so long as it in separated from the circulating blood by the fibrinour barrieri, produces only local results. It probably goes on increasing at the expense of the muperimposed textures, unti; it reaches the mirfice and is expelled, scarcely any constitutional cflect being produced. But suprose the abscess dees not reach the surface. The dykes are broken down, and the pus calls make their way into the circulution along with the blo d corpuscliss! What then is the result ? Do they act as simple forcign bodies, sulhiring themselves to be quietly extrmed from the 9 g s. tem, or at most, riving rise to sumll am circumereted abseswe an soma
of the organs? On the contrary. The discase frum being purely local and of hatic moment, at once becomes conslitutional atd must intense; a fire is iastantly lighted up which soon sirabls urar the whine system. The pise corpuscles are reproduced in immense minulere, infilenting the internul crans or forming large puralent dej ots (xin railly. The pas here comp'r'sitself in a manner very simular th the murbid poisona, ${ }^{\prime}$ prodieing momense results faom a very trillmy canae.

An ther eample of the presence of marlific ce!ls within the circulation, may lie found in secondary cancer. 'Ihest sucmatary furmation are proluced by the arrest, in some orgin or tisue, uf cimecr cells cy their germs, derived from a primary canccrons growth, and circulating with the iblood. The prolific nature of the c: neer cells, explains the rapidity with which whole organs become converted into a cancerons mass.

Primary cancer, like a common abscess, is purely a local disease so long as it remains primary, producing only lucal results, and in most instauces curable by local means. But if in any way the car cor cells a their muclei, like the pus-oorpuscles in premia, fimd their way into the blool, then argin, an intense constitutional discuse is lighted up, the frodacts of which, as in the foregoing case, are ndentical in character, with the primary matter introduced into the blood.

Concer has been all but proved to be transmissible from one individual to another. Langenbeck produced cancerous growths in the langs of a dog, by injecting cancerous mitter into the veins. The discuse, however, is far from being contagions to the same extent as most diseases commonly known aqcontagions; but thas is casily understood, if we bear in mind the comparatively large size of the cancer cells and their noclei, whicin precludes their entrance into the circulation under ordinary circumstances. or their dissemination in the atmosphere, like the poison of mfections disenses.

He $r^{\circ}$, then, are two diseases in which cells figure as the active and essential cause, proving not only that morlid cells may exist within the circulation. but that they may there reproduce themselves, acting in a manuer very similar to so:ae of the morbid poisons, and in one of the disesses at least, (if the contagious nature of cancer le admitted, giving rise toa remarkable property, cominou to all the zymotic disenses, namely, the capability of being transmitted from one person to another.

These diseases constitute anotler link in the chain of evidence sur porting the organic nature of the morbid poisons, while at the same time they lead ustowards the conclusion, that as in the furmer, so in the latter, eells constitute the active principle.

Another argument in favcr of the crganic nature of the morbid poisong
(fond which I have purposely kept back until after the consiceration of cancer,) may, I think, be drawn from the action of some of that class of remedies commonly known as alteratives.
Let us take a cimmon example. Arsenic has been found useful both locally and constitutiomally in the treatment of cancer; in fact, it is almost the on'y sulstance which can be said to possess any power whatever over this discise. It has also been resed, it is said, with great success in cases of poisoned wounds from the bites of serpents. In intermittent fuvers, and in other periodic disenacs, it has ofien proved successful atter all wher curative means have faikd. There are some other diseases not very closely allied to zymotic discases, but which have many charactors analogous to them, in which arsenic forms almost the sole remedy : such are some of the squame, as lepra, psoriasis, \&ce. As an external application, arsenic has lecen fund preferable to more powerful caustics in cancer, and in such discases as lopus, anl an ointment of it has been found almost a specific in onychia maligna. But arsenic is not the only one of the class which possesses this extensive range of specific actions. Many others possess similar powers. The curative power of mercury is well known in at least one contagiors disease. It has also been found to possess great power in checking the progress of cholera, and its use in many forms of fever is well known. Many chronic skin diseases have yielded to it, when all other remedies have failed. Local applicutions of it also, in the form of corrosive sublimate, have been found very usefitt in some furms of porrigo.

Nitrate of silver is another of this chass, so is iodide of potassium, and I might go on enumorating others, all of them possessing the same qualities; let these, however, suffice for our purpose.

Now, how are these actions to he explained? I am not aware of any satisfactory or definite explanation having ever been given. These remedies are said to exert a peculiar mfluence on the system, by which its morbid functions are corrected, dc. \&c. ; but the nature of that influence has not been satisfactorily explained.

It will be ohserved that those substances which I hare mentioned, and many others belunging to the same class, possess properties inighly destmetive to life in all its forms. Now, may not their alterativeaction depend upon this property? Some of the diseascs in which their beneficial influence is axhibited, have an organic cause, such as cancer, porrigo, \&c., and in most of the others there are strong reasons for inferring the cause to be of a similar nature.

The well known beneficial effect of mercury in common inflammation, might be explained in this way. Inflammation is a disease commonly connected with incrcared vitality of the system. In those prrsons poso messed of the inflammatory diathesis, the blood corpuscles exist in large
proportion, and all the functions of the body are carried on with unasual activity. May not the mercury, then, act beneficially by reducing this superabundance ns it were, of vitality, by virtue of its specific power; pussibly by retarding or preventing the growth of the blood corpuscles; white bloodletting produces the same effect by directly. withdrawing from the system a portion of its vitality, represented by the amonnt of the vital fluid abstracted? This view will be still furthe stiengthened if we consider the injuricus effects of mercury in strumou. or cachectic halits, where the vitality of the system is.already low, and where the depres-. sing effects of the medicine must of necessity prove deleter. Ons.

There are other substances, such as cod-liver oil, sarsaparilla, \&c., commonly classed among the alteratives, and which cannot be said to possess these destructive powers; but the impropriety of placing these substanres in the same class with the others, seems sufficiently manifest, for their beneficial effects are much more easily and satisfactorily explained, by ascribing them to their toric and dietetic qualities, than to any specitic power which they can be supposed to possess.
The conclusions to be drawn from the action of alterative medicines may be stated briefly as follows. 1st, That most substances properly included in this class possess propertics unfavorable to the developement, and destructive to the life of organisus in general. 2d, The beneficial operation of these substances is manifested in diseases known to depend on the developement of organisms, as in cascer, porrigo, scabies, \&c. 3d, That their beneficial action is also often. seen in diseases known to deprend on the action of morbid poisons, as in syphidis, cholera, fevers, \&c. 4th, Their beneficial action in these cases will be best explained by supposing the proximate cause of such diseases to be organic.

To sum up, then, how stands the case? The action of alteratives adds another item to a mass of evidence almost ineontrovertible in favor of the organic nature of the morbid poisons. The only question which yet remains tu be definitely settled seems to be, the precise grade or class to. which the organisms belong. I have stated my reasons for believing that the y cannot belong to any class commonly understood by such. mames as parrasite, animalcule, insect, \&c., and I have also given reasons for supposing then to belong to the class of organisms known as cells. Whether these reasons will be as sutisfuctory to other minds as they now ar. $t$, my own, remains to be seen. It is true, the cells which have been als:med as the agents in the zymotic diseases, have not as yet been physically demonstrated; but may we not hope, and indeed predict, that accuratc observation will yet enable us to identify the peculiar cell or germ of each disease, as uncrringly as we can now identify those of cancer or pus.

In such an investigation, our search is not to be directed towards objects so palpable as a pus-corpuscle or a cancer cell, but towards objects so minute as to be capable not only of diffision through the atmosphere, but of finding their way into the blood, through membranes now considered to be perfectly continuous.
The disease which offers the best prospect of success in this examination, would scepr to be small pox, or some disease abounding in material products, in which the contagious matter is unquestionably given off, mingled with the products of common inflanmation. The matter taken from a small pox pustule, for instance, must contain ordinary pus, and, in addition, the specific contagious substance, whatever that may be. Now, the microscopic characters of pus being tolerably distinctive, its admisture with this foreign material must necessarily be supposed to alter its appearance, the only difficulty heing, that our present means of examination are not sufficiently refined to enable us to detect the difference; but when these means shall have been rendered more efficient as science advances, we may, I think, reasonably expect such discoveries, nor would they be-so surprising as the original discovery of the pus or blood corpuscles themselves.

## IV.-We come mono to consider briefly the Indications for Treatment, suggested by the foregoing viezs.

In the first place. By way of preventing the spread of these diseases, every effort should be mhate to destroy the infectious matter external to the body, in fomites, \&e.; and this will be best accomplished by the use of means or substances which have the power of destroying the vitality of the poison; such as exposure to heat, cold, chlorine gas, solutions of chloride of zinc, arsenic, corrosive sublimate, \&c. \&c.

Secondly. In view of the great predisposition to these diseases, engendered by the accumulation of effete matters in the blood, all circum--stances should as much as possible be avoided, which tend to produce : meh an accumulation, as fatigue, exposure to noxious exhalations, damp and low situations, crowded dwellinge, sce.

Thirdly. Whenever a specific antidote or preventive is known to exist, such as vaccination, its use shonld be made as universal as possible.

Fourthly. When the poison has already been introduced into the blood, its developement might be prevented, or at least diminished in many instances, by the timely use of alteratives.
Fiftily. The system should be supported by nourishing diet, and stimulants if necessary, to enable it to bear up against the depressing reffect of the poison, and of the remedies necessary for counteracting it.

Sixthly. All the excretions of the body shouild be kept as much as
possible, in a healthy coudition, that no obstacle may be presented to the olimination c $f$ the poison.

Lastly. All conflications wisel arise during the course of the disease, must be treited on general principles, avoiding as much as possible, everything wioh may tend to seduce the strength, or impair the vital energy of the system.

Thus, then, I have endeavored to embody in as concise a manner as possible, a few ideas which suggested themselves with regard to these obscure diseaser. As stated at the commencement, I havo nut attempted an elaborate $r$ complete treatise on the subject of morlid poisons; but have mostly confined myself to those promicent points which have from time to time been the subjects of controversy and investigation. Any suggestions which I have mude, nust be regarded more in the light of tirst impressions than as the results of mature reflection. The impossibility of obtaining many of t've most valuable works on the subject, and the lurried and interrupted manner in which I was obliged to use those within my reach, have prevented me from bestowing upon the subject that amount of care and deliberation which its interest and importanes demand. It is with diffidence that I have ventured to give an opinion on subjects which have occupied the attention of some of the most eminent men of cur profession, but I have endeavored to consider each theory on its own nerits, without regard to its authors, and when I have ventured to differ from then, I have been careful to state as clearly as. possible, my reasons for so doing.

Experienced readers will, no doubt, find many, and perhops important defects in the forcgoing pages, but I trust they will make sume allowance for inexperience and many disadvantages, and if they find in them. anything worthy of their approval, or which muy serve to render the obscure diseuses under consideration one whit more clear, my utmost expectations shall have been fully realized.

ART. XV.—Medical Institutions, \&c., of Paris By Wm. H. Hingston, M.D., L.R.C.S., Edinburgh, \&c.

Hopital Bea ujon.-This hospital,sitnated in the Faubourg St. Honore', is unassuming, and, at the same time, one of the inust comfortable hospitals in P'aris. It contains 438 beds. On entering this establishment, our uasal organs do not receive that disagreeable evidence of the vicinity of sick wards, that they are accustomed to receive in such localities. The air is as pure within, as it is without, the hospital. A process af
removing tainted, and introlucing fresh air, is constantly going on. By a like contrivance, in summer, cool air is forced in, and warm removedthe reverse in winter. He this means the temperature of the warles it the same, wither and summer, and throughont the whole estiblisthibent there is rarely a difli-rence of one degree. Upwards of 6000 are atiended during the year; a mere fraction of those who present themselver Mortality (medical ward) 1 in 7.7; (surgical) 1 in 15.8. Legroux, Sandras, Barth, und Grisulle, are the physicians; Robett and Ilugicr, surgeons. Of the former, Barth is most generally fullowed, wh:o offers very practical remarks on the use of the stethescope and auscultation. This hospital, however, is not numerously attended by students.
Hopital St. Antone, in the suburb of the same name $;$ unquestionably the model hospital of Paris. At first a home of refuge for reformed prostitutes, now a general huspital. Contains 290 beds, and aciministers rolief to upwards of 5000 unnually; the mortality among which is about i in 9.6. Chassuiguac, known for his translation of Cooper, is the surgeon.
Hopital Necker, founded by a lady of the same name, mother of the celebrated Madame de Stuel, in 1779. This hospital is rendered for mous by the presence of one man-Civiale, the lithotrotist, a man qualified to add renown to a city. He lectures easily, but not sufficiently loud to be distinctly heard. He seizes the stone with the greatest ease and dexterity, breaks it into several pieces, and crushes those again. Unlike those who make one operation a hobby, he frequently rejects persons who come to him, when the stone is too large or too hard. Lj thotrity, he says, should only be perfurmed when the stone is friable, and under a certuin sizr. He is very mild and affable in his manner, with a total absence of that buasting there is so much reason to censure in les eitoiles de la science.
Hopital de la Chartte, originally the head quarters of a religions corporation (Saint Jean de J)ien) for nourishing the sick, whose ramifications extended throughout the greater part of France. To-day a hospital of the first-class, containing about 500 beds; nearly 8000 patients receive $\mathfrak{r}$ refessional assistance annually. It is composed of a series of buildings, forming a hollow square. Some of the wards are very larga, containing about 90 beds, labelled off into different salles. A most efficient medical and surgical staff attend this hospital, and it is but necessary to mention the numes of Rayer, Cruveilhier, Andral, Bouillaud, Iiorry, and Briquct, physicians; Velpeau and Gerdy, surgeons, as a proof. Cruveithicr and Andral, probably the most generally known throushont the world, are not so much songht after in hospital as are those of more circumscribed reputation. A. rarely dilates on the cases under treat-
ment, while walking through the wards; his views, therefore, are not teasily fearned from himself; while Cruveilhier is frequently nbsent, from indisposition and the press of private engarements. Butillaud $t$.aks, thal notwithstanding his strenuous labors in the canse of science, the world is ummendful of them, and also of him. And often does he complain of the decision of that prortion of the medical public who view with a more favorable eye, the labors of his more fortunate, though less deserving confrires. B. was the first to point out the frequency with which articular rheumatism is accompanied by endocarditis. In the latteraffection, as well as in pericarditis, he still adheres to his old severe antiphlogistic plan. I have rarely seen a physician more correct' in dagnosis. A contrast to Bonilland in most respects, is met with in his colleague Piorry. The latter seems to possess internal evidence of the bruit he has made in the world; and while he inwardly congratulates himself on the distiaguished position he has attained, he highly approves of the public choice, in conferring honors and distinctions upon ove so deservmg of them. An extract from a conversazione will show the estimation in which he holds himself:-،' Messieurs,- Si vous suiverez mes lectures regulierement, je vous donnerai un certificat; et un certificat as mor vaut plus qu'an diplome." Not only in chest afiections, but also in those of the abdomen and renal regions, the pleximeter is invariably had recourse to, to resolve all difficulties. His tactus eruditus is really extraardinary, and although many are disposed to smile at the extreme length to which he carries those matters, post mortem appearances generally confirm his diagnosis. Velpeath-a quiet, little, grey-haired old marr, still attends as regularly to his duties as if he had his reputation yet to earn. He seems to be a favorite, and is always encircled by a number of students, who listen with respect and attention to the remarks offered in an easy familiar manner. The students who attend his instructions are quiet and attentive-rara aves in the wards of a Parisian hospital.

Hopital de la Faculte, in the vicinity of, and directly opposite to, the Ecole de Medicine, in the quartier latior. In this bospital there are u surgical and obstetrical clinic; about 850 receive assistance in the former during the year, and upwards of 2000 births take place in the latter; mortality among which is 1 in 23.0, and 1 in 16.8 in surgery. Dubois and Nelaton are the professors in their respective departments.

Nelaton's surgical clinic is the most numerously attended in Paris, and he one of the most popular teachers. He is mild and agreeable in his manners-of an even gentle temper. Although he lectures with. great facility, he seems to attach little importance to oratosical display. He is possessed of wonderful acuteness of perception, and faculty for observa-tion-is bold and energetic, at the same time cautious. In fine no truer
or no ligher tribute can be paid him as a surgeon than by styling him the Syme of Paris.
Hopitat. Bossecours, containing 318 beds, and administering reliefto upwards of 5000 in -door patients amnually. Mortaity in the medical wards averages 1 in 11-8; in the surgical 1 in 28.1 .
Maison Nationaie de Sante, for those who are able to pay the expenses of their keepiug. Not more than 5, or less than 2 francs are charged por diem, according to the room occupied,-baths, food, linen, \&se, are included. The patients are uttended by six medical students, and, when necebsary, Nelaton and Denonvilliers are called in consultation.

## REVIEWS AND BIBLIOGRAPHICAL NOTICES.

IX.-Woman: 'Her Deseases and Remedies. 1 series of Lettets to his Cluss. By Charles 1). Meigs, M.D., Professor of Midwifery and the Diseases of Women and Children in the Jefferson Medical College at Philadelphia; Member of the Ametican Medical Association, Philosophical Society, and of the Council, \&c. \&c. Third edition, revised and enlarged, 1854. Pp. 666. Philadelphia: Blanchard \& Lea. Montreal: B. Dawsoll.
We took up Dr. Meigs' work, as we take ap every book which comes before us for review, determined to sullject it to a fair, impartial criticism. We, moreover, commenced to read it carefully, joting 'כwn as we went along what we considered worthy of commendation, and what did not altogether meet with our approval. Of the latter class of jottings we had made quite a number, when we were arrested at page 151 ly a sentence calculated to make an honest timide critic reflect, whether it would be perfectly agreeable or not to his feelings to be designated by terms which, althongh not to be found in Johnson or Walker, are sufficiently expressive and well known to readers of the yellono covered literature of the present day. "It has been charged against me," says Dr. Meigs, "by a writer, a snob, in the British and Foreign Medical Review, that this statement is incorrect, \&c." Now, we argued to ourselves, we certainly do not like to be called "a snob," or by any name other than is applicable to gentlemen; but, the important question to be decided is, shall we allow ourselves to be intimidated in the discharge of our du-ties?-shall we permit our feelings to make cowards of us! No! said
we, and it shall gu hard with us but we hold to our determination. Having arrived at the conctuson, then, mot to be unduly influenced in our decisions, by an aththority in medicine even great as Dr. Meizs is acknowledged to $h_{n}$, it was winh infinite satis fiction we read at page 271: "Judge in your wisdum and awake your sconses that youmay the better judge; learn not to be mere routineers-miscrable nathines in the hends of the authorities. Kick the authorities out of docirs, and be youreclves authority fir yourselves. This is the way to show yourselves freo and independent, and it is the only way, tor, if you think yea or nay because Hippocrates or Sydenham thonght so, you are their slave, their vassal." Kick the authorities out of dours. Excellent advice. "A Daniel conse to judgment-yea a Daniel." Our author appears to forget that he is now classed among the "American authorities" un midwifery and its cognate branches in medieine ; if he dues not, in advising his pupils to abide by the decisions of their owu judgments and to be independent of authorities, and in the same breath calling those who have dared to differ from hinself "snobs-murtincts," and such lise uneuphonecus nanes, he exhibits a strange inconsistency. An inconsistency he might have been sured from, of lee had tiken the remarks of his oritics in perfect good humour.

This volune would uppear to have been designed by the anthor foz general perusal. If si, he has committed a serious error in reflecting so frequently on his profiesional tretlıren. In a work exclusizely intended for the eye of the profession, such conduct is scarcely pardonable, and betrays a disposition, on the part of the writer, to arrogate to himself a greater anoumi of lublessional knowledge, and diaguostical acumen, than is possessed by otters oceupying a ligh pusition in medicine. The. following is if fair ample of what is frequently met with in the work: "I have had clots of boud sent to me from very good doctors, under the supposition that they were the organized products of a regular fecundation. I have had a paticht le-devilled (!!) for three months by an eminent practitimer, under elus sipposition that she was luboring under menorrharia, whertus nothing was the matter with her but a dead and undischarged ovmm."

In conmen with other reviewers of Dr. Meigs' work, we cannot but object to the couversation with Hiss Melen Bhuque beng adopted as a model style of conversation with young lady patients. If Dr. M. amagines that a long discuisition on physiology, which it is clearly impossible fur a person to understand unless they have a certain amount of preliminary anutomical knowledge, is to be of any benefit to invalid ladies, he is, we should consider, singular in his o. inion. Notwithstanding his very learned, ornate, and extended statement to Miss

Blanque of the jeculiarities of her case, that sensible Lady Myth very naive'y says, ut the termination of the collorpy:-"Durnd upon it, doctor, I shall try to follow your advice. I cammut say that the convergation I have had with you has cmabled me to undervand as clearly as I think you do, what ais me, and what I require for $1 / 4 \cdot 1 \cdot-$ estubli hamatat
 is requisite to the understanding of those points, that jotcharacterize by such very hard words, as en-en-end-angiun, was it :an? and hematosis? Yes; hamatusis; and other such gibberish," p. 189. The exquisite flourish, moreover, by which this truly remarkable conversation is introduced, is quile unique in its wry. It would undoubsedly grace the pages of the most flashy twelve-and-a-half cent "yellow buck" of the popular literature of the day; but, the position it uceupies in a work on medical science, is rather questionable. We transc:ibe it for the delectation of our readers :-" I was requested on the __ day of —__ 184to visit Miss Helen Blanque, at No. -.. Chesuut Street; and when I called at 11 o'eluck in the moming, I found her reposing in a luxuriant fauteuic of the richest crewelwork. She was armyed in a beautiful negligee, and her slippered feet rested on a low ottoman. The apartment was richiy furnished with miriors, and chandeliers, and candalalabras, and carved sofas, with chairs of every form and hue. A fresh bouquet stood upon the litile table neur her, by half a dozen volumes, some of which were opened and lying on their faces, as if taken up and laid down in disgust ; he: hair was in curls, but carclessly ; and the tout ensemble of the young lady was expressive of lunguor aud indifference, if not of pain or distress," p. 161.

> "O rare-he doth it as like one of 'Tuese harlotry players as ever I see.—Staks.

It forcibly reminds us of the descriptions we have met with in the "monthlies" of the faslionable young lady who is phunged into the deepest distress, and refuses to be comforted on account of sume accident to dear-dear Fido-her favorite poodle.

In all treatises on diseases of women, displacements of the womb oceupy a very considerable space. Indeed, from the earlier periods in the history of medicine, distinct accounts hive reached us of the attention which they received from the Fathers in the divine art. This need not excite any surprise, when we consider the extreme frequeucy of their occurrence; the vast amount of pain and suffering turwhich they give rise, and the troublesome constitutional derangemants which they frequently induce. Woman being constituted alike at all ages of the world, the same unatomicul elements entering into the construction of her several parts, diseases, such as those under consideration, must have exist-
ed and been known even from the beginning. Of all the deviationt from a norma! position, that in which the uterns subsides in the pelvis, the os uteri appoximating to the ostium vagina, or what is commonly called, falling of the womb, is infinitely more frequeut than other forms of displacement. Dr. Meigs has evidently had great experience in the trentmont of these affections. In the extensive practice which he has enjuyed for so many years, cases of every vai iety, aud exhiliting every possible form of complication must have come beneath his notice. That they could not have been presented to a better observer-one more capable of appreciating everything of interest, either in the semicology and pathology of each individual case, is sufficiently obvious from the letters which contain his renrarks on this form of deviation. They are replete with sound practical advice, which no practitioner need fear to Collow. There has long existed a dispute among modern writers on digeases of females asto the true pathological causes of prolapsion of the uterus. Dr. C. M. Clatke attributed it to-1st, Relaxation of the broad and round tigaments above. 2nd, A want of tone in the vagina below." (Dis. of Females, vol. 1, p 72.) While most writers admit the second cause mentioned by Dr. Olarke, there are many, among whom we must class our author, who refuse to adnit the agency of the first. Dr. Hemilton first denitd that the ligaments afforded little, if any, opposition to procidentia, but that the resistive power was to be foand in the connections of the uterus and vagina with surrounding parts. These experiments, repeated by Dr. Ashwell, yielded sin.llar results. (Practical treatise on the Diseases peculiar to Women, p. 378.) Dr. Davis, howeven, believesthat prolapsion is eutirely the resalt of weakened and extended suspensary ligaments, and is not in the least dependent on a relaxed state of the waginal walls. "An organ,"says he, "susceptible of development to an almost indefinite extent, as the vagina is, can scarcely have been intentied to maintain a degree of contractedness sufficient to enable it to stretain the uterms in any given position. Add to this consideration the fact, that thi vagina is actually most ample, where the hypothesis now questioned requires it should be most contracted." (Obstetric Medicive, vol. i. p. 524.) The most prevalent view, that which obtains the greatest currency, is a modification of Dr Clarke's. Relaxation of the Vagina and its connexions with neighbaring parts is the great cause, weakness and extension of the Ligamerts, the minor.
Dr. Meigs describes a " neuralgia of the abdomen," simulating peritonitis, and produced by jrolapsus of the uterus, of the greatest practical importunce. The first case he met with of this affection, was in the yeax 1828, and he thus records it:-"I was called to see a mulatto woman, in Water Street, aged about thirty years. She was lying upon her back;
her knees were dra:vn up, and she was supporting the bedclothes with her hands, lest they should press upon the abdomen, which was so exquisitely tender and sore that she could by no means endure their weight or pressure. She had been suffering this pain for many hours, and had a short, quick respiration, on account of the pain which any exteasive motion of her diaphra om communicated to the abdomen, and. which mar.e it necessary for her to restrain the respiratory movements as.much as possible," p. 14i. From these symptoms, he felt convinced that she was laboring under intense peritonitis. On placing his fingers. on the pulse, however, he tound that it was of a natural volume and frequency. The incongruity of the signs led him to enquire fr, ther, and he found that "she had borne several children, of which the youngest was now about a year old." He now becai..- convinced that the pains.depended upon "a neuralgic state of the abdomen, produced and maintained by a displaced womb;", and on being allowed to replace the womb, all pain ceased, and she could tolerate the freest manipulations of the abdomen, without shrieking or complaining. Since that period he " has seen sixty or more similar cases, all of which.bore, with the exception of the state of the pulse, the most striking resemblance to acute peritonitis."

Dr. M. is a strong advocate for the use of the pessary in the treatment of prolapsis uteri. The one he prefers, in ordinary cases, is the globe pessary, first invented by Dr. Sandys of London. This. form was used allogether by Dr. Physick of Philadelphia, and is known in that city and throughout the United States as Dr. Physick's globe pessary.

In his remarks on Retroversion, Dr. Meigs exults. greatly over the " uthorities," inasmuch as they do not mention relaxation of the round. ligaments as the pathological condition which permits the occurrence of this displacement of the womb. He gives a list of writers, including many of the best observers of diseases of women, whose works do not contain one word in reference to this cause of retroversion. Velpeau he excepts, and gives the following quotation from him :-" But for them the womb would every moment be turned over backwards by the bladder, which is distended several times every day with urine." Now, we cannot allow ourselves to suppose, even for an instant, that Dr. Meigs is unacquainted with a work entituled; "A Prectical Treatise on the Diseases of the Uterus and its Appendages. By Mme. Veuve Boivin, Saze-Femme surveillante en chef de la Maison de Santé, etc ; and A. Dugès, Professeur a la Faculté de Médicine de Montpellier, etc." Why, then, has he suppressed the recorded views of these two eminent. writers? At page 73, Hemings translation, they say :-" Hence the necessity of two predispositions, or of one at least, to induce retroversion::

1st, The relasation of the uterine ligrments, as in prolapsus; $\mathbf{2 d}$, Increased volume of the uterus. With the former of these conditions, re--troversion will be found sometimes, even in the empty state of the uterus, etc."

Dr. Meigy dors not believe in the physomptra of writers. Ific is of opinion that most of the instances adduced as eample of the disease, must have been abduminal tympanitis. He has been consulted at different times as to the existence of pregnancy in fimales, in whon he has found, after car ful examination, the swelling of the abdomen and the accompanyiug sympathetic phenomena to depend uno a chronic tympanitic condition of the bowels. His treatment for chronic tympany${ }^{4}$ those samples of it that are unattended with any screrc or violent and dangerous lowal disorders, such as ulecrs of the buwels, \&e.,"-consists in applying a thouel roller, about funr inches wide and thrce or four yards long, to the abdomen, and administering carminative aperients and tonics. A formula which he lows tipon as the most reliable in all cases of tympanitis-one, in' fact, which he invariably has recourse to, is the following:-" Take one ounce of manna; one drachm of anise seed; eight omecs of beiling water. Mix them, and let the misture rest for half an hur, then strain the liquor. To the strained liquor add three ur four drachms of carbonate of magnesia, so as to make a perfect mixture. A wine-glassful may be given as a dose, to be repeated every tro "ours, or three hours, until it operates." P. 323.

The merstrual $i$ scharge has at all ages been regarded by the female with feelings peculiar in their nature. She has "learned by a time honored tradition handed down by the mass of mind from age to age, that her life, healti, comfort, fruit fulness, and beanty, have a strong alliance with and dependance upon this office. It has become, therefore, a public sentiment-a she vox populi, vox Dei-that commands it to be respected." P. 43 i . Among the Jews the conduct of the woman during menstruation was regulated by the levitical law. She was planerl:! part for seven days and everything she touched was deemed unclean. And if a person touched her, or any thing on which she had lain, or used in any way during the time of her separation, such person was unclean. We have been informed by an intelligent old gentleman, who lived many years among the aborigines inhabiting the tract of country north of the great lakes, and who was married to an Indian female, that a similar censtom obtains among this branch of the family of North American Indians. Whenever a woman has her menstrual flow upon her, she is placed in a hut apart from others for seven days, at the lapse of which time she cleanses herself and returns to her friends. An Indian will studionsly avoid going near the hat ; he will not touch any vessel or utensil which
has been used within the place; and should he, by accident, come in cuntact with anything of the kind, he will wash himself carefully. To those who hold the cpimion that the North American Indian is a descendant of the lost tribes, the agreement between the Jewish and Indian custom during the period of menstruation is of importance, as affording strong collateral proof of the correctness of their views.

We had marked out many other portions of Dr. Meigs' work, for notice, but our space will not permit of more extended rencirk. Our readers had better purchase the work, and pernse it carefully; fur, maugre the finc writing, pedantry and verbosity, it is replete with sound practical views, and is evidently the production of a man of vast experience and thoroughly couversant with his subject.
X.-A Universal Formulary: containing the methods of preparing and administerng officinal and other Medicines. The whole adapted to physicians and pharmacentists. By R. Eglesfeld Griffith, M.D. A new edition, carefully revised and much extended, by Robert P. Thomas, M.D. With Illustrations. Pp. 651. 1854. Philadelphia: Bianelard \& Lea. Montreal : B. Dawson. 15s.
This new editiol a i ir. Grifith's work has been increased in size by seventy pages. "Besid •e strictly medical furmula, many have been added from authentic sourc cs for the preparation of essences, perfumes, inks, soaps, varnishes, \&c. \&c." It is one of the most useful books a country practitioner can possibly have in his possession. In addition to the "Universal Formulary," which occupies $4 i 2$ pages, it contain: "Dictetic Preparations not included among the previous prescriptionsList of Incompatibles-Posological Table of the most important Medi-cines-Officinal Preparations and Directions-Poisons, \&c. \&c."

## NI.-A Clinical Introduction to the Practice of Auscultation, and other modes of Physical Diagnosis in Disenses of the Lungs and

 Heart. By I. M. Hnghes, M.D., Fellow of the Royal College of Physicians; Assistant Physician to Guy's Hospital, \&c. Second American, from the second and revised English edition. 1854. Pp. 304. Philadelphia : Blanchard \& Lea. Montreal : B, Dawson. 5s.Physical diagnosis of dic sases of the chest is best studied at the bed side of the patient. There is much preliminary knowledge, however,
to be obtained from works such as Dr. Hughes', which will be of great use to the student in prosecuting his clinical enquiries. While, therefore, we would advise him tostudy works on auscultation and percussion, we would, at the same time, assure him, that he will never, become a successful diagnostician unless he continuously and unweariedly practices. both.in the wards of the hospital.

## CEINICAL LECTURE.

Clinical Lecture an Amputation at the Knee-Joint. By William Frigusson, Esq., F.R.S., Professor of Surgery in King's College, London, and Surgeon to King's College Hospital, \&c.
(Mcdical Times and Gazette.)
Gentlemen,-The case now before you is well worthy of your uotice. It is brought into the theatre that you might see it, and I take the opportunity of making some observations upon " amputation at the kncejoint."

This boy was admitted into the hospital January 25, 1854, suffering from violent indlammation in the leg, acute necrosis of the tibia supervening; in other words, suppuration and separation of the periosteum of the tibia had set in, quickly undermining the boy's constitution, so that nothing could be expected, save the hazard of a long illness with a remote chance of dead bone being thrown off; what I therefore considexed a lietter mode of treatment, and eventually followed, was the removal of the diseased extremity. The boy, as I said, was in a very bad state of health, and it seemed doubtful whether an operation undertaken at that time would be successful.

Surgeons of experience are familiar. with instances of this disease, is acute necrosis is not an uncommon affection. But it is to the treatment of the case that I wish to draw your special attention. I am also well pleased so to do, as some of the particulars had escaped my memory, and the mode of amputation here followed has been rarely performed in this cumntry. Iallude to ampuation at the knee-joint, which, I thirk, has not been performed, or at least recorded more than a few times in the history of English surgery; and as it is one in which I am much interested, you will, I hope, follow me with a like enthusiasm. This wis. essentially an amputation at the knee-joint. Now, there is a great difference between amputation at the knee and at the knee-joint, and it is casy to draw the distinction.

In my younger day it was common to amputate at the knee,-for an. amputation high up on the tibia might be termed an amputation at the Enee; so also an amputation very low in the femur. I have seen these operations very frequently performed, and have frequently so operated myself; and I think such amputatioas may be justly said to be amputations at the kiace.

When Mr. Syme introduced his operation for amputation of the foot at the ankle-joint, some surgeons contended that the operation was not a novelty, as amputation at the joint had been proposed before, although not performed in the way originally described by Mr. Syme.

In the time of LIey, who wrote an able treatise on amputation of the leg, amputation was perfirmed at the tnee, but not at the kree-joint. I am thas particular in the definition, as some think that these terms are too partienlarly insisted on. Will often do we hear surgeons talking of the femoralartery as if only one femural existed, whereas there ure three ; and perchance the one specified as the femoral is not truly the femoral artery. Here, then, we see the value of a proper application of terms.

But, to return to the case under con-ideration, I will read you the particular points of the case as detailed in the Case-book, und then make some remarks upon amputation at the knee-joint, and the advantages of such an amputation.
"W. M., aged 11, is a native of Sydenham, and states that he has always had remarkably good health up to the time of his present illness. which began six weels ago. After having been out sliding the whole of one day, he came home in the evening complaining of pain in both legs, more especially in the right knee, upon which be had fallen in the course of the day. In a few days after this he was seized with shivering and violent deep-seated pain in the right leg and ankle-joint, which was foliowed by considerable swe.ling of the limb, commencing at the ankle and extending up to the knee-joint. The integuments appeared red, as if erysipelatous. His sufferings now became excruciating, more particularly if pressure were made on the limb, or if he attempted to move it. Notwithstanding the active measures employed by his own surgeon, the inflammation continued to increase, and matter formed, which soon became discernible in the soft parts. An incision was consequently made on the outer part of the ankle-joint, and about a pint of pus evacuated. A few days after this another puncture was anade in the upper part of the leg, and more matter was discharged. During this time his geizeral health had become much impaired, and he became extremely emaciated.
"When admitted into the hospital, Jauuary 25, 1854, Mr. Fergusson made an accurate examination while the boy was under the influence of chloroform, and found the knee-joint much diseased, the surfaces of the bones being rough and denuded, and a considerable collection of matter in the upper part of the leg, which was evacuated.
"The patient was supported by stimulants for a few days till his health was deemed sufficiently good to stand the shock of an operation.
"When placed in the operation table under chloroform, a small opening was made a little above the knee, and a quantity of unhealthy pus was evacuated. Mr. Fergasson then performed the operation of ampatation at the knee-joint in the way detailed in his own work.
"The state of the bones of the leg cleariy demonstrated the necessity of their removal. A section being made of the tibia. the cancellous? tissue of the upper part of that bone was found filled with pus, while that tissue at the lower part was necrosed, and the epiphysis separated. The articular cartilages of the ankle-joint had ulcerated, and the ends of the
bones were eroded. The articular cartilage on the head of the tibia was so soft that a probe prised readily throngh it, and the bone was bare and carions in several spots, especially around the articulation with the fibula.
"The paticnt rapidly mproved, and was discharged cured March 11, 1854."

Now, if I be not mistaken, the late Mr. Liston performed a similar operation at Cniversity Collegc Hospital; Lut I am uncertain as $w$ jts performance by that gentleman. or to the thite, if it were performed. When I first performed the operation, to my knowledge it had not been previously done in England, for I cannot find any record of the fact, and such an operation perforned fur the first time would not likely be passed over without some notice being pablicly made.

This operation has since been followed by others, among the first of whom I may uame Dr. George Williamson, now in India, one of my former assistants. The tirst time I performed this operation was on the person of a full-grown man; (the case is mentioned in the third edition of my work on "Practical Surgery ;") and I have rarely seen or madea better stump. He has repeatedly walked forty miles a-day, and once walked one hundred and twenty miles in three days; and, what is more astonishing, his false leg was but indifferently made and padded. the spoke of an old wheel being considered ly the man an excellent substitute for a more expensive contrivance.

In consequence of such great advantages arising from my first trial of the operation, I have since frequently performed it. Notwithstanding, several objections have been made. Mr. Syme, who had performed the operation in Scotland before I attempted it here, had taken a dislike to the proceeding from something that went wrong in his own cases. Mr. Syme imagines that greater danger is incurred by a larger surface of bone being exposed, by the removal only of the condyles, than if the bone be sawn higher up in the shaft. But mischief, I think, is more apt to occur when the bone is sawn in the shaft. Where the bone is vascular, Ithink there is little chance of necsosis, and much less of caries; and you have frequently seen how kindly the two cut surfaces of the spongy portions of bone heal in cases of excision of the elbow-joint.

Another objection made is, that the length of the stump is very awkward. This I do not admit; if the stump be short, an apparatus cannot conveniently be fitted, and the bone. when cut too high, is liable to be tilted forward by the psoas and iliacus muscles. Indeed, I cannot perceive any objection to a long stump. Objections have been made to a long stump of the leg, and amputation of the leg is often recommended to be done a short distance below the knee, but I am doultful of the utility of such a step as a general rule.

Again, a long stump in the thigh can never hinder in any way; besides, the leverage is much greater than it it were only half the length. In addition, the great breadth of bone, when well covered, is better able to support the weight required to be borne.

This objection might be raised by some,-that this operation is not truly an amputation at the joint, as the condyles were taken away. If such be allowed, then one might say that Mr. Syme's operation at the
ankle is not an amputation at the joint, for he nlways removes the malleuli; but such an objection could not be held reasonable, and the operatinu now under consideration I deem a great addition to the history of amputation, and have taught it as such for the last ten years.

I now perceive that for nearly the first time mention is made of this operation in the surgical journals of the day, which, I make no doubt, will greatly tend to the advantage of this department of Surgery.

When I first commenced my profession, it was an undeistond rule, with but few exceptions, that the coverings of the hone in an amputation should be talsen frum the sound parts of the region where the a mputation was performed; as, for instance, in amputation of the thigh, the soit parts were always tuken from the substance of the thigh; so also in amputations of the leg. But in this case, aud in ampuration at the knee, the soft parts covering the end of the femur are actually the tissues that originally constituted the calf of the leg.
In the history of amputation it has always been the aim of the surgeon to make a good stump, its quality depending greatly mon the proper covering of the bune. If the soft parts be scanty, a bad stump must result; if, on the other, the covering be too large, the result will likewise be unsatisfactory. A remarkable instance of this latter kind was under notice last summer in this hospitul. But there is more danger of the covering being scanty than profuse. The fleshy coudition of the covering, as you k now, isultimately converted more or less into a fibrons texture.

I'hough amputation cannot be suid to be the opprobrium of Surgery, an axiom I laid down in my first paper on Conservative Surgery-"For the greater proportion of sound material that we can save in any operation on the body, the nearer we come to the perfection of good Surgery" -yet I think amputation at the knee-joint may fairly have at least a footing in the province of conservative Surgery.
This operation has lain for some time in abeyance, but I now find my name associated with it in the journals, in papers which have recently appeared on the subject from the abler pens of my friends Mr. Greenhow, of Newcastle, and Mr, Jones, of Jersey-men who, with myself, I would fain hope, have no desire to have their names connected with novelties, unle st they be for the good of our fellow-creatures and the advancement of Surgery.

In cases of injury of the joint, including great contusion of soft parts, I am doubtful whether the operation should not be effected above the seat of injury. As to the mode of performing the operation, I first make a small anterior flap, driwing the knife across the front of the joint, and then, inserting the pointwof the ilade behind the femur, thrust it through to the other side, close to the condyles; then, carrying it down wards, cnt the posterior flap from the calf of the leg. The saw is then applied a little above the condyles, and the flaps brought together as in an ordinary amputation.

Mr friend, Mr. Greenhow, of Newcastle, saws through the bone beiore making the posterior flap; but I prefer the method I have described, although the great aino is to obtain sufficient material to cover the bone.
In some instances I first effect the separation of the leg at the articular ends, and thereafter cat away as much of the femur as seems need-
ful. In all cases it is requisite to take the full length of the calf for the posterior flip, as the soft purts in the back of the thigh contract very much in the course of time. The patella might be saved in some examples, but in general I think it would be best to remove it.

I have been thus particular in my remarks, as you will not fird any particular mention of she operation in any English work prior to my own.

## THERAPEUTICAL RECORD.

## (New Hampshire Journal of Medicine.)

Oil of Morphia.-M. Lepage (Jour. de Pharm., A pril, 1854) refers to a previous article by himself, on the solvent powers of chloroforin, in which it is stated that morphia and its salts are insoluble in that liquid, and confirms his results.

The sulphate and hydrochlorate of morphia are but slightly soluble in fixed oils at the ordinary temperature, but more so when hot, M. Leprage recommends that a mixture of almond oil and hydrochlorate of morphai should be heated just before it is to be used.

As a substitute for the oil of morphia, M. Souberain suggests a soluthon of morphia in glycerin, viz.:-Acetate of morphia, six grains; glycerin, a fluid ounce. Dissolve the morphia in the glycerin with or without heat.

Mounsey's Preston Salts.-The following directions for making this preparation are taken from the London Pharm. Journal, viz., -Take of true oil of cloves, English oil of lavander, of each a drachm; oil of Bergamot, five drachms; strongest solution of ammona (sp. gr. 880), one pint; mix these together. The bottles are then to be half filled with rough carbonate of ammonia, and filled up with the carbonate in fine powder. The salt is then saturated with the above so'ution, and corked closely.

Oil of Protiodide of Iron.-M. Gille, of Paris, has suggested that oil of a!monds may be impregnated to a certain extent with protiodide of iron, proviced the iodine, iron filings and the oil are mixed together, and shaken till the odor of iodine disappears, which requires several days. The following is the formula suggested:-Take of pure iodine, in powder, 34 grains; iron filings, 230 grains; oil of almonds, 25 ounces, (Troy.)

These ingredients are mixed together, and agitated occasionally for several days. The oil of protiodide of iron, when complete, has a slight amber colur, no odor, and almost without taste. It preserves its physical and medicinal properties for some time without appreciable alteration, and should be kept in glass-stoppered bottles.

In the Annals of Pharmacy, from which we extract this notice, it in
not stated whether M. Gille proved the presence of iodide of iron in the oil. It is probable that some reaction occurs letween the oil and the iodine, prior to or coincident with its action on the iron.

Saccharated Iodide of Iron.-The Ilanover Pharmacopreia gives a formula for this preparation. Sixteen parts of iodine, four of iron filings, and sixty-two of water, are gently heated together until the solution becomes green, when it is rapidly filtered, and mixed with forty-eight parts of pulverized sugar of milk. This mixture is then to be evaporated by means of $a$ water bath, until it acquires a thoroughly dry consistence. Thirtytwo parts of sugar of milk are then to be added, and the whole rubbed in a mortar into a fine powder. When properly made, it is a yellowish white powder, soluble in seven parts of water, and requires to be kept in closely stopped bottles. This powder contains rather less than one per cent. of iodide of iron.

Coating Pills.-M. Callond stggests a new material as preferable to flasseed and sugar:-Take of tragacanth, in pieces, 50 parts; distilled water, 100 parts; pure sugar of malk, in powder, 1000 parts.

Make a mucilage with the tragacanth and water, squeeze it through a linen cloth as in making lozenges, mix it with the sugar of milk to form a paste, spread this on plates, dry it in a stove and pulverize it. The pills are coated by moistening their surface with water and immediately rolling them in the powder. The moist fixes a portion of the powder on their suriace, and forms a coating.

## PERISCOPE.

Spontaneous Gangrene in a child eight months old. By James Sidey, Esq.-The gangrene had appeared on the head, face, and hands, and the appearances were well illutrated by a series of casts. The right ear and the entire hairy scalp were of an intensely black colour, and on both cheeks patches existed about the size of a half-a-crown piece. The right thumb and the backs of both hands were similarly uffected. The child was noted to have been restless and feverish on May 22nd, and on the 23 rd a slightly darkened ring was found to have formed round the thumb about the middle of the first phalanx; in a few hours the whole thumb was gangrenous, and the dorsum of the hand became involved. On the ear, the gangrene commenced with the appearance of flea-bite, and subsequently extended rapidly to the scalp, assuming a remarkably regular form, and giving the child the appearince of wearing a black skull cap. The pulse was observed to be very feeble, and the mouth unaffected. Death took place in twelve hours from the first appearance of the gangrene on the thumb, the child being sensible and continuing to suck well up to a few minutes betore death. Its previous health had been tolerably good. The on'y medicine it had been taking prior to the stry
pervertion of the gangrene was a little ipecarman wine and carbonate of soda for an attack of hooping congh, from which it was convalescent.

Dr. A. Wood said that the case was a remarkuhly interesting one, and forcibly reminded him of cases of blood prisommir, ms-c.g. from ergot of rye, which were attended with mngrene. It as very evident that in the present case the peculiar appenrances were not due to any affection of the blood vessels, but rather, is he had stated, to a poisioning of the blood itself. The symmetrical dispositon of the gangrene. the suddenness of its approach, and the rapidity of the latal termanation, were especially noticeable
Dr. Begbie only once met with a cane of spmaneous gangrene of the scalp, which was a very rare lesion. The patient in whom he obverved it labored under typhus.

Dr. W. T. Gairduer mentioned the particulars of a case where the tip of the nose, after assuming a bloodless a ad discoloured appearance, became gangrenous. The patient was a yound lady who, on disacetion, was found to have laboured under a tubercutar disease of the kiduey. Part of the areter and bladler was also affected.

Dr. M. Duncan had olserved a somewhat similar case to that related by Dr. Gairdner in the Infirmary at Aherdeen. The patient was a woman and had disease of the heart and kidneys. Several weeks before death the tip of the nose became gangrenous, and a line of separation was formed. A single toe or finger was also gangrenous.-Dublin Med. Press.

## cibr Atrdiral Chronirle.

LICET OMNIBUS, LICET NOBIS DIGNITATEM ARTIS MEDICE TUERI.

## HYGIENE AND CIHOLERA.

To hear this one-that one-in short, every one, talk most glibly on the necessity of attention to personal and public hygiene, if individuals or communities desiderate a continuance of health; and of the vast importance of judicious sanitary measures in warding off an approaching epidemic, or in diminishing its virulence, should a community be invaded by it,-a person would infer, that sound advice in all matters relating to this subject, ne crir only to be propounded to meet with universal favor and adoption. No inference, however, could possibly be more at variance with wha 1 atually would take place. Men, as a general rule, when attacked by disease, are willing to submit to every measure which is supposed necessary to the re-establishment of health. They follow out with scrupulous exactness the directions of their physician as to the
amount and quality of their food-the length and nature of their exetcises, \&e., and swullow, with almost religous obserrance, the statedly appointed doses of medicine; but, so long as they enjoy vjgorous health, they neither find it convenient nor agreeable, either persomally, or collectively as communities, to attend to the advice of those who have made personal and public hygiene the olject of study. The pursuits of business, of trade, of profession, of pleasure, are followed with a devotion and recklessness of consequences, which prove they find it, individually, u most difficult matter to pay any attention to those circumstances necessary to the conservation of personal health ; whilst the stagnant pools and undrained flats oí Griffintown and Quebec Suburbs, reeking, in many instances, with filth and corruption, and, worse still, the sites of pools, the water of which has evaporated by the action of the sun-the villanous odors emanating from deca yed and decaying arimal and vegetable matter, which impress the olfactories of the passer-by in certuin streets and lanes -the masses of refuse and garbage alluwed, by the city Futhers, to be deposited during the winter months under the designation of snow, quite within the precincts of the city-the imperfect drains, and the notoriously insufficient supply of water,-abundantly attest that the people of Montreal, as a community, no matter what they may say to the contrary, consider measures necessary to the preservation of the public heaith, things of very small moment.
Our city has just passed through a season of sickness and death: One of the most dread diseases which has ever appeared to afflict mankind, has made sad havoc among our citizens. No less, in our opinion, than thirteen hundred persons were cut off by cholera during the late epidemic. As early as February last we gave warning of its approach, and made the following remarks, which were allowed to pass unheeded :-
"If all the investigations into the nature and causes of cholera have been entirely barren of results, the observation of its progress and developement, and the study of its history have made us acquainted with some important facts. In the first place, we have learned that cholera can be arrested. It is now admitted that the vast majority of cases of cholera begin with simple diarrhoe. When seen in this stage, and proper remedies administered to check the inordinate dejections, the chances are that the disease will not proceed to the stage of collapse. Secondly, That when it has advanced to the stage of collapse, the probabilities a re that it will eventuate in the death of the patient. Thirdly, That hygienic regulations strictly enforced among communities, have a great influence in limiting the extent of its ravages. With a knowledge of these facts, and in the almost certain prospect of a speedy visit from this dreadful scourge, a fearful responsibility rests on our Provincial Government. Inaction, under these circunstances, becomes criminal. It is po time when the disease is in our midst, comaitting havoc in our families, to adopt
measures to keep it out. The time of panic and confusion is not the time for well-directed and effective action. Besides, the dumation of the epidemic is so short, measures adopted to diminish its vimlence, on its first appearance, are scarcely brought to completion, ere the discase has expeoded itself. We are left to monrn our dead witi the anything but consuling reffection that, had the same amonat been expended und the same steps been taken at an earlier periot, brfore the disease manifested its presence, many valnable lives would have been saved.
"A Central Board of hiealth, with power to appoint local boards throughout the Province, shound at once be established. A rigorous investigation of all the cities and to vns, more particularly their suburbs, should be instituted under the direction of this board. At this season of the year, masses of animaì and vegetable matter in a congealed state, admitting of easy removal, are to be seen in the yards and enclosures of the various suburbs of our cities. If lef to the summer, the putrefactive process sets in, giving rise to gaseous emanations which are exceedingly deleteriuns to the health of all within their influence. An effective system of dminage, for the purpose of removing stagnant pools of water, should be put into operation early in th spring. People should be ohliged to t. oroughly cleanse and whitewash their habitations. All public drains and sewers shuuld be cleansed, and care taken that they have free vent. A plentiful supply of fresh, pure water should be afforded to the poorer portion of the population. And bastly, preparations ought to be made for a medical hoiise-to-honse visitation. Of all the means adopted in Great Britain to check the progress of the epidenic, "visitation " has been the most $e$ fficient.
" Wos hope to see this matter taken upimmediately by those in authority; for should cholera visit us in our present unprepared condition, a great mortality would inevitubly is the consequence-a mortality, moreover, which we firmly believe may, by the timely adoption of the measures adverted to, be materially lessened."

It is quite true that a central Board of Health was established ; but it was not established until the epidemic was raging fearfully in Montreal and Quebec, and had made its appearance at various other points. Indeed, for all the good it effected, it might have been allowed to remain unformed. The only intimation we ever received of its vitality, was the receipt of a paper containing a notoriously incorrect return of the number of deaths that had occurred in the principal cities.

In Montreal there was no systematic and vigorous investigation of the suburbs-there was no effective system of drainageudopted-the people, as a general rule, were not obliged to cleanse their yards and privies, or to whitewash their habitations-there were no steps taken to supply the poorer population with an abundant supply of water; and there was no medical house-to-house visitation. The Mayor, however, wrote and pablished a pamphlet on the prevention and treatment of cholera, the first edition of which was distributed gratuitonsly, while the second and
enlarged edition was sold at Dawson's for sevenpence halfpenny,stone and lime were placed over the sewer grates-lime was deposited at the diferent police stations and distributed gratis to crery poor nnlettered person who might accidentally become aequainted with the fact -and lastly, a local Board of Health was formed at so late a period that thesir principal official act consisted in an announcement of the termina. tion of the epidemic. These, as far as we cun learn, were the principal measures adopted to prevent the spread of the discase. We hope the public may become alive to the necessity of obliging those in authority to have recourse to more prompt and effective action ai another time; which time, nevertheless, we sincerely trust, may be far distant.

London Medical Circular.-We are happy at being able to congratılate our esteemed exchange upon its improved condition. Its sheet has hecome considerably enlarged, and other alterations made connected with its typographical character. It already enjoys nearly as large a circulation as both the Lancet and Medical Times and Gazette together. From the stamp return recently published it appears that the number of stamps issued to the three medical journals of the metropolis during 1853 was:-Nedical Circular, 106,546 ; Lancet, 82,000; Medical Times and Gazette, 65,025 . The Medical Circular is published weekly, and contains eight quarto pages of closely printed reading matter. After the present year its cost will be only a pound sterling. It is devoted to the reflection of medical literature in general, and of English medicine in particular. Among other headings into which its matter is divided are the important ones of Lectures, Hospital Reports, Reviews and our Note Book. It is well deserving of patronage and we would suggest to our Anglo-Canadian friends that they cannot lay out a few shillings better than in subscribing to it. A simple address to the publisher of the Medical Circular, 128 Strand, London, with that of the party wishing it, will insure its recsipt.

Annua! Announcements af Medical Colleges.-We have up to the time of writing been favored with those of Jefferson Medical College, Philadelphia, of Pennsylvania College, Philadelphia, and of the Medical College of Ohio. All these exhibit the institutions about which they are conctrned as in a flourishing state and having prospective encourage-men:-

During last session 627 stadents attended Jefferson College, and the graduates number 270 ; the number of the latter have been steadily increas ing during the past seven years. In 1846-'47 there were but 181. We percejve that the fee for each professor's class continnes to be alike,
or the same to all. This is but just and equable, for the expenses and labor of the different lecturers are coteris paribus alike, thongh no doubt each one would fain make his orn to be the greatest. This plae is nor generally followed in the States, it having been found to draw the largest honses.

Some changes have occurred in the professorships of Pennsylvania College, owing to those of practice of medicine and surgery having been vacated. The professor of surgery has at his own request been transferred to the chair of obstetrics thus creating vacancies in the chairs of practice of medicine and surgery, which have been filled by the appointments of Drs. A. Stille and John Neill. Fees as at Jefferson $\$ 15$ for each course.

The announcement of the Medical College of Ohio is the 35th that has been yearly circulated, and from the commencement of the institute in 1819-20 to the present time over 5,000 pupils have attended its teachings. Where in the world do all the young doctors go ?

Fifth Anmual Report of the Female Education Socrety, and the Netw England Medical College.-The ladies complain that "the profession as present constituted is like half a pair of shears. And hence the poor work they make in cutting the thread of discase." This grievance will, by the blessings of their society, be blotted out forever, the pair of shears will soon be made whole, and theu humanity shall flourish in immortal youth, and disease will reign no longer. We are glad to be able to correct, from the report itself, a rife mistake. It is usually supposed that a female doctor is either a starched spinster or a weedy widow, but this is a gross libel, as the following quotation shews, which is true even to the italics: "With such a help a man's house instead of being a melancholy and expensive hospital as is too often the case, woald be a citadel of health and the abode of cheerfulness and thrift." This is a conummation which we are sure more than one benedict devoutly wishes for, and will afford mighty encouragement to any one who thinks of giving up the single state. One more extract we give for the benefit of any Canadian female who would like to join the craft: "Women will go where duty and humanity call, not only to Canada but to the frozen snows of Greenland or the burning climes of Africa. There is, however, need of some thousands of female plysicians to supply the cities and towns of New England alone, so that they may not be obliged to make such long journeys to reach their patients." Weil, indeed, all this is highly proper, but we scarcely know which to admire most, the proffered intrepidity or the saving clause.

Appointments in McGill University.-The Governors of this Institution have been pleased to make the folloring appointments in the Medical Faculty, in consequence of the death of the late Dr. McCulloch, which lamented event we recorded in our last number. The chair of Midwifery and Diseases of Women and Children that he occupied daring his life time, has been assigned to Professor Hall, whom we are sure will sustain its popularity and usefulness. For the many years he has been connected with the College, he has always been a favorite of the students. The Professorship of Materia Medica and Pharmacy, left vacant by this appointment, has been conferred upon Dr. Wright, formerly Professor of Medical Jurisprudence.

Medical Faculty of Laval University, Quebec.-The Medical Professors of this University are-Dr. J. Blanchet, of Mediciae and Physiology ; Dr. C. Fremont, of External Pathology and Operative Surgery; Dr. J. A. Sewell, of Internal Pathology and Special Therapentics; Dr. A. Jackson, of Midwifery and Female Diseases ; Dr. J. Z. Nault, of Materia Medica and Therapentics; and Dr. J. E. Laundry, of Anatomy, general, descriptive, and chirurgical. The other chairs are not yet filled up.

Strychnine in Cholera.-We have much pleasure in directing the attention of the profession to Dr. Fraser's communication; because we are convinced that strychnine is the most powerful nervine now in use, and the best adapted for the removal of certain symptoms of cholera. The justness of this opinion is well snstained by the historical details of the recorded $t_{a}^{\text {hie, }}$ where an amount of success is exhibited from the remedy as must be most encouraging to those who may hereafter be called upon to treat the disease. Like other substances, strychnine will fail; but its :xperimental use is justified by the rebelliousness of the disease to medi:ine generally, and we hope, when strychnine is selected, its trial will be :onducted in the judicions and scientific way recommended.

Annual Report of the City Inspector of the City of New York for the Year 1853,-This is a very complete document, clearly drawn up and full of valuable information. As it refers to matters, however, that have principally a local interest, we can only speak of it generally. We think a similar production should issue yearly from every town, which would exhibit the particulars connected with mortality and births during a given time, the prevalence of different diseases, causes of death, length of life, and similar facts of interest not merely to physicians bat to all
men who have any concern about either morality or philanthropy. We with something, even thongh it were but an approximation to the above, were done for Montreal. but it is hoping against hope as long as our city fathers are so given to talking, for till they have had their say. no sanitory actiou can be expected, and fur all their says time is too brief.

Publication of Theses.-As an encouragement to students, we have concluded to select from among the theses yearly presented to the Medical Faculty of McGill College, one for publication, always providing that surh a one be deemed by us, after an impartial examination, to be deserving of so distinguished an encomium. Our readers generally will not object to this, for, apart from the arrangement made not to encroach upon the limits of the Original Department of the Journal, we feel sure they will weicome the annual offering of a carefully compiled, well arranged, ably argued, and clinically elucidated thesis, as not unacceptable in point either of interest or profit. We have only, therefore to request, that in their perusal, they will considerately remember the limited book resources of the writers, and the small time that can usually be devoted by a student to such a task. In the present number is the commencement of the series, and if the successors equal it in merit, we shall be only too glad at having made the above resolucion. In explanation, it is only necessary to add, that the gentleman to whom Dr. Craik's thesis was referred, expressed himself greauy -aisfiad with it, and stated its fitness for publication; and as we entire:y concur with him, we have much pleasure in introducing it to the profession.

We copy the following notice of Dr. Hunt from the Buffulo Commer. cial Advertiser. The articles appearing in the editorial columns of the Buffalo Medical Journal, over the sigature "H.," have always been read with pleasure by us:-
"Professor Sanford B. Hunt.-We are much gratified to learn that this gentleman has been elected to the chair of Anatony in the Medical Department of the University of Buffalo, rendered vacant by the resiguation of Professor Moore, who is about to remove to Columbus. Ohio, and to take the chair of Surgery in the Starling Medical College in that city. To the menbers of his profession Dr. Hunt is widely and favorably known by his writings in the Buffalo Medical Journal. of which he is one of its two editors. He is also one of the contributors to Putnam's Magazine, and the frequency with which his articles afo 'aken from that
periodical and published in varions jourpals, evince the estimation in which his talents are held by the reading puldic.
"Dr. John Boardman, of this city, takes Dr. Hunt's former position in the University as Demonstrator of Anatomy."

Nex Licentiates.-His Excellency the Governor General has Inen pleased to grant licenses to Charles Tozer, of Aylmer, in the county of Elgin, gentleman, and Thomas Benson, of Kingston, in the county of Froutenac, gentleman, to practise Physic, Surgery, and Midwifery in that part of Canada called Upper Canada.

Reviencs.-Hereafer, we purpose placing the price of each be in we review immediately after the title. We do this for the beneft of our country subscribers, many of whom, we have been given to understand, would like to send for books if they were certain of the price. Mr. Dawson will transmit at $y$ book ordered from him, through the post office. The postage is only one half-penny per ounce.

Boaks Reccived for Reviero.-Skoda on Auscultation and Percussion, 1854. From Messrs. Lindsay \& Blakiston, Philadelphia. Annual Report of the City Inspector of the City of New York, for the year 1853. From T. K. Downing, Esq.. City Inspector.

## hospital reporte.

## MONTREAL GENERAL HOSPITAL.

Case of advanced Iritis, rapidly yielding to trcatment. (Reported by Mr W. J. Heary.

Mary Ann Gardner, a stout Irish woman, aged 30, of scrofulous appearance, married, was admitted into the Montreal General Hospital, on the 1st August, by Dr. Wright.

From the patient's statement, it appears that she caught cold on board a steamboat coming down from Hamilton about a fortnight ago, and a few days after her arrival in Montreal, felt a severe pain of a throbbing character, in one particular spot, just above the left eyebrow ; this next passed to the temple-finally, the left eve became affected, and her sight began to be imperfect. She applied to a medical man here, and received some medicine from him, with directions to blister her temple. Experiencing no relief, she applied for admission into Hospital.

On examining the affected eye, a fine, light pink halo of vessels is seen radating from the margin of the cornea; the iris is redder and
more dusky in appearnace than that of the sound eye, and very convex appearing to bulge forwards; the pupil is very much contracted, an nearly triangular in shape, and the edge of a fake of light colured lympl is seen on its outer lorder. Sight is nearly lost, the letter of a book ap pearing like black lines.

A lotion of bichloride of mercury, intended for another patient with conjunctivitis, was by mistake applied to this woman's eye, and she wa: put on low diet. The next day she complained a great deal of the pain and smarting caused by using the lotion, and the mistake was discovered and rectified. The following prescription was orlered:-

> B Cal. gr. ij.

Pulv. opii, gr. $\frac{1}{3}$.
Fiat pil. vesp. et man. sumend.
Also-
R Potass. iod. Эiv.
Liq. potass. 3 vj .
Aq. ad. 3 viij.
m. Fi. mist. cujus cochl. maj ter in die sumend.

August 4. The eye is already changed in appearance; the pupil has neary lost its contracted look, though still far from circular, and the fragment of lymph alluded to before. has diminished in size; iris does not bulge forward so much, and its color is changing. Gums are not yet affected by the mercury.

8th. A still greater improvement. Iris is of the natural color, and pupil nearly of the normal size. There is a slight irregularity, however, in its upper parts, as if a small segment had been removed from the circle. The fragment of lymph has entirely disappeared. The gums have been sore si:?ce Monday, when the pills were discontinued. Sight much improved.

The next day, as the eye was nearly well, and the patient wished to leave the Hospital, she was discharged.


Diseases and Accidents.

| Disease. |  | Disease. |  | Disease. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Abscessus | $8: 1$ | Dyspepsia | 1 | (Edrona | 3 |
| Acne | 11. | Emesis | 4 | Ophthalimia | 18 |
| Albuninuria | 1 | Epulepsia | 2, 1 | Ostits | 1 |
| Amauresis | 1 | E.rysipelas | 1 | Palpitatıo | 1 |
| Ambustio | 5 | Febris Com. Cont. | 14 | Paralysis | 2 |
| Amenoribea | 2 | * Intermit | 14 | Paronychia | 3 |
| Amputatio | 12 | " Typhoid | 13 ${ }^{1}$ | Periostitis | 2 |
| Anæ隹ia | 11 | " Typhus | -31 | Pentonitis, chronic | 2 |
| Anasarca | 1 | Fractura | 6 | Phlermon | 1 |
| Aneurismos aorte | 1 1 | Furuncalus | 1 | Phrenitis | 1 |
| Apoplexia | 1 ! | Gastralgia | 4 | Phthisis | 8 |
| Ascites | 1 | Gastritis | 1 | Preumonia | 8 |
| Blenorriagia | $12 i$ | Gonorrhaea | 1 | Purpura Hemorrh. | 1 |
| Braachitis | 13 | Hemorrbagia | 1 | ${ }^{\text {.4 }}$ Simplex | 2 |
| Bronchocele | 4 | Herpes | 1 | Rheumatusmus | 50 |
| Calculus (renal) | 11 | Hydracele | 2 | Scabies | 2 |
| Cancer | 12 | Hypochondrasis | 1 | Scarlatina | 2 |
| Caries | 2 | Imperigo | 1 | Strictura | 1 |
| Cephalalmia | 1 | Inebritas | 1 | Submersios | 1 |
| Cbolera Assatica* | 61 13 | Irritatio Spinals | 2 | Synnutis | 2 |
| " Canadensis | 6 | Laryngtis | 1 | Syphils | 8 |
| Constipatio | -2 | Leucorrbea | 1 | Tinea Capitus | 2 |
| Contusio | 161 | Luxatio | 2 | Tortio | 1 |
| Conn de Soleil | 11 | Mania | 4 | Ulcus | 17 |
| Cystitis | 11 | Metntis | 1 | Variola | 3 |
| Debilitas | 71 | Meningitus | 1 | Varix | 1 |
| Delirium Tremens | 6.5 | Menoribagia | 2 | Vertigo | 1 |
| Diabetes Mellitus | 1 | Mentagra | 1 | Vulnera | 8 |
| Diarrboen | 35.2 | Morbus Cordis | 4 |  |  |
| Dysenteria | 6 | Nearalgia | $1)$ |  |  |

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## Operations During the Quarter.

Amputation of leg, 2; of phalanges, 3 ; of great toe with removal of metatarsal bone. Tumors excised, 2. Circumcision. Extraction of polypus. Tapping abdomen. Tapping tunica vaginalis, 2. Injecting tunica vaginalis. Injecting veins, 2. Total, 16.

Fractures treated.-Internal, 6 ; external, 2 ; dislocations reduced, 2. Total, 10.

Minor Opirations.
Opening abscesses, \&c., 25. Bleeding, 4. Cupping, 28. Teeth ex-
tructed, H. Vaccination, 4. Sutures, 2. Wounds dressed, \&c., 8. Total, 114.

Attending Physicians-Drs. Fraser ie Sutherlaind.

> Robert Cram, M.D., Honse Physician and Surgeon.

## MEDICAL NEWS.

Dt. MI. II. Aurison, the surfosed ajeat in furwardang the inferal nachine to Cincinnatia which exprivded adal hilled twu werovis, has been arres:ed in Iuna.-Dr. Lintow, an accomphished scuatat aud phasacota, tumatrly a surgeon in the navy, was recently hung by a thub at Luado, Texis. He had murdered thate persuns which atumsed the indigation of: the whole cona.atumg. IGay in Danastabie, Mass., last weeh ga!e Lirth to thice child:
 ang his bea with the grams of poradioc. In the opimun of an Aubatan edito he deserve. ed to be exccuted. -Dr. Aurey Dunai, who had practised medreme for oro years, dief:

 L.L.D. Was 4 guferied upun rof. J. W. Diapen of Cravers.ty Meuical Culiegte, by Prnce-: ton Culle'se, 末iew Jersey, at is last cummeocenent.-Jatnes Jacksun, M.D., of Buston, has. recenved Lut sabue degre tron the T.avorsity of Cambadge, Mass.-Tue discovery by : Bernand that the her produces sugar idad uch an effect upun his mand that he did not sleep: for three successure nights afichard. - Thansiusion of bivol an the collapse of cholera has heen resoricd to in the Chanty Hospital, Dew Olleans, but whout any berieficial results.
 some patauts at the Montral Gcueral Husphtal whate c.mapseá, but wute eventhatly reco. vered. -The Londua Lancet statis that to cases of cholera of any had had been registeret wiot that city fur there "eehs, wad that chuiera of the malignant ype has not existed there 1u: tour auntias. - Tae Haluchanat or Huarepathec Hospial of Londun has ceased to exist. The funature ath effects wete sold by auctoon on the 1 the Joly last by Messrs. Dobenham and Stwons. It has starcely carried on its miserable cxistence for the tune pred.cted.-Dr. Hacketi, Luspector Gerneral of Huspitals, died suddenly at Malta, at the age of at, while on Lats way tu service in the war at thi Last.-Dr. D. Spillan, atthor of a vulume on therajecutics, besides seteral elemenidary woins, and tratshator of Audral's Chaigue Medicale.expired un 2 vih Sune last, in St. Paucras workhouse, Londou, whithes he had been placed but a day or two previvasly on accuat of the extremely destatute condation of his tamily who are in want of the commond uecessitics or hife. - The anmersary oration in henor of Hlarvey was thas year dehvered before the Royai Cullege of Euysichaus and Surgeons, Londou, by Dr. Aldersun as uatal in. latu.-The medical staff in the Last is very mierior: the
 gery. The Tuwhis surgeous huow nuthing but cupping with cow horns. and many a parueat has surh which a juucious see of the hrite woud have relieved; their nonal pilea is: the man wht probubly die it is to use to put ham to pana-lt appears that 330,000 ounces: of qumine are antualiy wasumed in the Thich States; it has bren computed as ioo small, as this only refers to the amprted quinine, and not to the home manufactured. It at ose time. sold for 75 cents a buthe; huw it sells iur $\$ 3$ or $\$ 4$. - A sucking child was iately treated to 10 grains of caiomel crery two ious for croup. It was contiaued untal the bowels were acted upun. In three diys this objuct beiug gaineti, the drus was pushed no further, and stopped when 200 grains were given-A Anatumy has been legalized in the Empire State off the Ehiun, atd uader certain restrichutas dissection may be practused in New Youk.-Cholera has bioheu vut with great ciclune aroougst the Tussian troops at Cronstadt.--Joseph Hudgson, Csq., has been se-deried a anmber of the Cuancil of the College of Surgeons Londun, atd his cursented to deaver the anmual oration in memory of John Hunter, a duth
 cateer in Lonjua, has been compeched through ith heallh to tohe up has residuce at Tun bridge Wells, where he will continue practice.


[^0]:    - The total number of cases of cholera admitted during the quarter, was 132. Of these, 71 died within three daya after admission, and were consequently excluded from the Hospital Registers; 13 died after having survived more than three days, making the whole number of deaths 84 , or about 63.6 per cent; the remainder, 48 , or about 36.4 per cent, recovered. More than two thirds of all the cases were in a state of extreme collapse when admitted, many of them dying within an hour, and affording scarcely any opportaniy for the employment of remedies successfully.

